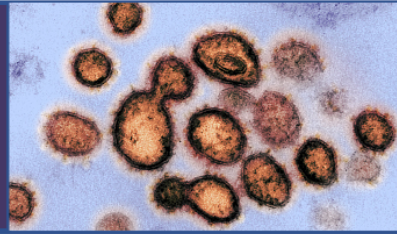


Covid-19 Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

Update August 23 - August 29, 2021,

Dr. Peter J. Lansberg MD, PhD

Weekly COVID-19 Literature Update

will keep you up-to-date with all recent PubMed publications
categorized by relevant topics

COVID-19 publications - Week 34 2021 1377 Publications

PubMed based Covid-19 weekly literature update

For those interested in receiving weekly updates
click [here](#)

For questions and requests for topics to add send an e-mail
lansberg@gmail.com

Reliable on-line resources for Covid 19

[WHO](#)

[Daily dashbord](#)

[Country Guidance](#)

[Travel restriction](#)

[Covid Counter](#)

[Covid forecasts](#)

[CDC](#)

[AHA](#)

[ESC](#)

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[Cardionerds - COVID-19](#)

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[Oxygenation Ventilation toolkit](#)

[German \(ICU\) bed capacity](#)

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[BMJ](#)

[The Lancet](#)

[New England Journal of Medicine](#)

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[SSRN \(Pre-prints\)](#)

[COVID reference \(Steinhauser Verlag\)](#)

[COVID-19 Projections tracker](#)

[Retracted papers](#)

[AAN - Neurology resources](#)

[COVID-19 risk tools - Apps](#)

[COVID-19 resources \(Harvard\)](#)

[Web app for SARS-CoV2 mutations](#)

[COVID-19 resources \(McMasters\)](#)

[COVID-19 resources \(NHLBI\)](#)

[COVID-19 resources \(MEDSCAPE\)](#)

[COVID-19 Diabetes \(JDRF\)](#)

[COVID-19 TELEMEDICINE \(BMJ\)](#)

[Global Causes of death \(Johns Hopkins\)](#)

[COVID-19 calculators \(Medscape\)](#)

Guidelines

[NICE Guidelines Covid-19](#)

[Korean CDC Covid-19 guidelines](#)

[Flattening the curve - Korea](#)

[IDSA COVID-19 Guidelines](#)

[Airway Management Clinical Practice Guidelines \(SIAARTI/EAMS, 2020\)](#)

[ESICM Ventilation Guidelines](#)

[Performing Procedures on Patients With Known or Suspected COVID-19 \(ASA, 2020\)](#)

[OSHA Guidance on Preparing the Workplace for COVID-19 \(2020\)](#)

[Policy for Sterilizers, Disinfectant Devices, and Air Purifiers \(FDA, 2020\)](#)

[Breast Cancer Patient Triage Guidelines \(CPBCC, 2020\)](#)

[clinical guidance for adult Belgian patients with suspected or confirmed COVID-19](#)

[National Covid-19 Testing Action Plan \(Rockefeller Foundation\)](#)

[ASE issues Echo-cardiography guidance](#)

Trials & Registries

[CAPACITY European registry COVID 19 patients](#)

[WHO launches global megatrial](#)

[FDA launches Convalescent plasma trial](#)

[Lets Beat Covid-19 Survey to help plan hospital services](#)

[COVID IBD registry](#)

[Google mobility reports per country COVID 19](#)

[World's largest trial of potential coronavirus treatments rolled out across the UK](#)

[Pregnancy Registry \(US\)](#)

[ICNARC report on COVID-19 in critical care - NHS April 24](#)

[COVID-19 Human Genetics - Biobanks](#)

[COVID19 settings of transmission database](#)

[COVID-19 prevention network](#)

[Covid-Plex trial - \(plasma exchange & convalescent plasma trial\)](#)

Mainstream Media

New York Times - Corona update

Least Vaccinated States Lead Spike in Children's Cases

Amid a slow vaccine program, Australians scrutinize government's contacts with Pfizer.

South Korea's surge in Covid cases threatens its plans for reopening.

A Vaccine Success in Europe That Sinks in the East

A Vietnamese court sentences a man to five years for breaking coronavirus rules.

Covid Ravaged South America. Then Came a Sharp Drop in Infections.

White House Seeks \$65 Billion for 'Apollo' Plan to Prepare for Future Pandemics

Washington Post - Corona update

Researchers design reusable face mask said to be as effective as N95 respirator

False meme: Nobel laureate did not say ivermectin 'cures' covid-19

Florida judge rules against DeSantis again, allows schools to require masks

Jimmy Kimmel suggests hospitals shouldn't treat unvaccinated patients who prefer ivermectin

If you got the J&J vaccine, should you get a booster dose of Pfizer or Moderna?

What you need to know about the highly contagious delta variant

Guardian - Corona update

Inside an Oregon hospital amid an 'absolutely stunning' Covid surge

Covid cases among US children are surging as students head back to school

Low risk of catching Covid in public toilets, study finds

Scientists must be protected from anti-vaxxer abuse

German Covid super-spreader event driven by poor ventilation, study finds

UK decision on Covid vaccine boosters expected on Thursday

Key Articles

- 1. Long-Term Impact of COVID-19: A Systematic Review of the Literature and Meta-Analysis.** Biomedicines 2021; 9Sanchez-Ramirez DC, Normand K, Zhaoyun Y, Torres-Castro R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440104>
In this systematic review and meta-analysis, the potential long-term consequences of COVID-19 were evaluated. Data were collected in 24 studies (N=5323) and reported outcomes beyond 3-months (3-6) follow-up. Although a third to over half of all patients had persistent respiratory symptoms, fatigue, decreased functional capacity, and decreased quality of life features, 8 out of 10 patients reported back to work or reported no work impairment.
- 2. Cerebral venous thrombosis after vaccination against COVID-19 in the UK: a multicentre cohort study.** The Lancet 2021; Perry RJ, Tamborska A, Singh B *et al.*
Vaccine-induced immune thrombotic thrombocytopenia (VITT) is a rare side-effect of vaccination against COVID-19. Based on data collected in 43 UK hospitals, 70 patients were diagnosed with this serious complication. The

authors concluded that VITT is distinctly different from classical cerebral venous thrombosis, reflected by a younger age of the affected patients, a larger number of affected intracranial veins severe outcomes, and increased mortality risk. Non-heparin-based anti-coagulants and immunoglobulins were shown to improve outcomes. The authors proposed new diagnostic criteria to improve early diagnosis and appropriate treatment.

3. Insights from a murine model of COVID-19 mRNA vaccination-induced myopericarditis: Could accidental intravenous vaccine injection induce myopericarditis? Clin Infect Dis 2021; Knowlton KU.

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453510>

Vaccine-induced myopericarditis is reported as a rare side-effect; however, with a large number of vaccinated individuals, hospitals are seeing patients with this cardiac complication more frequently. The US Vaccine Adverse Events Reporting System (VAERS) estimated an incidence of 0.41 cases per 100 000 vaccinations. Although rarely associated with death, patients do require hospitalization for management and exclusion of more serious underlying diseases. Animal (mouse) models have been used to study this phenomenon to explore mechanisms that explain this rare vaccine-associated side effect. A possible explanation found in the rodents was that IV administration of the vaccine showed an increased severity of myopericarditis. Accidental IV inoculation during an intended IM injection could potentially trigger or enhance myopericarditis. Aspiration before an injection is advised to avoid accidental IV administration

4. Long COVID-19 Syndrome: A Comprehensive Review of Its Effect on Various Organ Systems and Recommendation on Rehabilitation Plans.

Biomedicines 2021; 9Yan Z, Yang M, Lai CL.

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440170>

5. Triage Modeling for Differential Diagnosis Between COVID-19 and Human Influenza A Pneumonia: Classification and Regression Tree Analysis.

Front Med (Lausanne) 2021; 8:673253Xiao A, Zhao H, Xia J *et al.*

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447759>

6. Deep survey for designing a vaccine against SARS-CoV-2 and its new mutations. Biologia (Bratisl) 2021:1-12Vakili B, Bagheri A, Negahdaripour M.

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421121>

7. Differences in the Concentration of Anti-SARS-CoV-2 IgG Antibodies Post-COVID-19 Recovery or Post-Vaccination. Cells 2021; 10Tretyn A,

Szczepanek J, Skorupa M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440721>

8. Intranasal Corticosteroids are Associated with Better Outcomes in Coronavirus Disease 2019 (COVID-19). J Allergy Clin Immunol Pract 2021;

Strauss R, Jawhari N, Attaway AH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438103>

9. **An Overview of Vaccines against SARS-CoV-2 in the COVID-19 Pandemic Era.** Pathogens 2021; 10Pascual-Iglesias A, Canton J, Ortega-Prieto AM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451494>
10. **Thromboprophylaxis in Patients with COVID-19: Systematic Review of National and International Clinical Guidance Reports.** Curr. Vasc. Pharmacol. 2021; Kyriakoulis KG, Kollias A, Kyriakoulis IG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431465>
11. **Side Effects of mRNA-Based and Viral Vector-Based COVID-19 Vaccines among German Healthcare Workers.** Biology (Basel) 2021; 10Klugar M, Riad A, Mekhemar M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439984>
12. **Diagnostic Accuracy of Rapid Antigen Test Kits for Detecting SARS-CoV-2: A Systematic Review and Meta-Analysis of 17,171 Suspected COVID-19 Patients.** J Clin Med 2021; 10Khandker SS, Nik Hashim NHH, Deris ZZ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441789>
13. **COVID-19 Vaccine in Pregnant and Lactating Women: A Review of Existing Evidence and Practice Guidelines.** Infect Dis Rep 2021; 13:685-699Garg I, Shekhar R, Sheikh AB, Pal S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449637>
14. **Biomarkers of Coagulation and Inflammation in COVID-19-Associated Ischemic Stroke.** Stroke 2021:Strokeaha121035045Esenwa C, Cheng NT, Luna J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428931>
15. **The Hyperlipidaemic Drug Fenofibrate Significantly Reduces Infection by SARS-CoV-2 in Cell Culture Models.** Front. Pharmacol. 2021; 12:660490Davies SP, Mycroft-West CJ, Pagani I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421587>

Basic Science (88 articles)

1. **Characterization of the Human Oropharyngeal Microbiomes in SARS-CoV-2 Infection and Recovery Patients.** Adv Sci (Weinh) 2021:e2102785Gao M, Wang H, Luo H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423593>
2. **Letter to the Editor: Morphoproteomics Confirms the Expression of Fatty Acid Synthase (FAS) in Reactive Alveolar Pneumocytes in a COVID-19 Victim: Biological and Therapeutic Implications.** Ann. Clin. Lab. Sci. 2021; 51:587-588Brown RE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452902>
3. **Effectiveness of Natural Antioxidants against SARS-CoV-2? Insights from the In-Silico World.** Antibiotics (Basel) 2021; 10Rehman MFU, Akhter S, Batool AI *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439061>

4. **Deep survey for designing a vaccine against SARS-CoV-2 and its new mutations.** Biologia (Bratisl) 2021;1-12 Vakili B, Bagheri A, Negahdaripour M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421121>
5. **Phytochemicals from *Leucas zeylanica* Targeting Main Protease of SARS-CoV-2: Chemical Profiles, Molecular Docking, and Molecular Dynamics Simulations.** Biology (Basel) 2021; 10 Dutta M, Tareq AM, Rakib A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440024>
6. **Structural Dissection of Viral Spike-Protein Binding of SARS-CoV-2 and SARS-CoV-1 to the Human Angiotensin-Converting Enzyme 2 (ACE2) as Cellular Receptor.** Biomedicines 2021; 9 Giordano D, De Masi L, Argenio MA, Facchiano A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440241>
7. **SARS-CoV-2 RdRp Inhibitors Selected from a Cell-Based SARS-CoV-2 RdRp Activity Assay System.** Biomedicines 2021; 9 Min JS, Kwon S, Jin YH.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440200>
8. **COVID-19 Pathogenesis: From Molecular Pathway to Vaccine Administration.** Biomedicines 2021; 9 Nappi F, Iervolino A, Avtaar Singh SS.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440107>
9. **Full-Length Recombinant hSP-D Binds and Inhibits SARS-CoV-2.** Biomolecules 2021; 11 Arroyo R, Grant SN, Colombo M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34439781>
10. **Anticoronavirus and Immunomodulatory Phenolic Compounds: Opportunities and Pharmacotherapeutic Perspectives.** Biomolecules 2021; 11 Dejana NN, Elshabrawy HA, Bezerra Filho C, de Sousa DP.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34439920>
11. **Screening out anti-inflammatory or anti-viral targets in Xuanfei Baidu Tang through a new technique of reverse finding target.** Bioorg. Chem. 2021; 116:105274 Wang Z, Zhang J, Zhan J, Gao H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455301>
12. **Comparative study of the interaction of ivermectin with proteins of interest associated with SARS-CoV-2: A computational and biophysical approach.** Biophys. Chem. 2021; 278:106677 González-Paz L, Hurtado-Levén ML, Lossada C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428682>
13. **Comparative kinetics of SARS-CoV-2 anti-spike protein RBD IgGs and neutralizing antibodies in convalescent and naïve recipients of the BNT162b2 mRNA vaccine versus COVID-19 patients.** BMC Med 2021; 19:208 Trougakos IP, Terpos E, Ziros C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420521>
14. **Translational deep phenotyping of deaths related to the COVID-19 pandemic: protocol for a prospective observational autopsy study.** BMJ Open 2021; 11:e049083 Henningsen MJ, Khatam-Lashgari A, Olsen KB *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452963>
15. **The impact of spike mutated variants of SARS-CoV2 [Alpha, Beta, Gamma, Delta, and Lambda] on the efficacy of subunit recombinant vaccines.** Braz. J. Infect. Dis. 2021; 25:101606 Mohammadi M, Shayestehpour M, Mirzaei H.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428473>
16. **Recent omics-based computational methods for COVID-19 drug discovery and repurposing.** Brief. Bioinform. 2021; Tayara H, Abdelbaky I, To Chong K.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423353>

17. **Combining spike- and nucleocapsid-based vaccines improves distal control of SARS-CoV-2.** Cell Rep. 2021; 36:109664Dangi T, Class J, Palacio N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450033>
18. **Secretory Vesicles Are the Principal Means of SARS-CoV-2 Egress.** Cells 2021; 10Eymieux S, Uzbekov R, Rouillé Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440816>
19. **Mesenchymal Stem Cell-Derived Exosomes: Applications in Regenerative Medicine.** Cells 2021; 10Hade MD, Suire CN, Suo Z. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440728>
20. **Microbiota-Gut-Brain Communication in the SARS-CoV-2 Infection.** Cells 2021; 10Manosso LM, Arent CO, Borba LA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440767>
21. **Autophagy and Mitophagy-Related Pathways at the Crossroads of Genetic Pathways Involved in Familial Sarcoidosis and Host-Pathogen Interactions Induced by Coronaviruses.** Cells 2021; 10Pacheco Y, Valeyre D, El Jammal T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440765>
22. **Expansion of Myeloid Derived Suppressor Cells Contributes to Platelet Activation by L-Arginine Deprivation during SARS-CoV-2 Infection.** Cells 2021; 10Sacchi A, Grassi G, Notari S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440879>
23. **Computer-aided prediction of inhibitors against STAT3 for managing COVID-19 associated cytokine storm.** Comput. Biol. Med. 2021; 137:104780Dhall A, Patiyl S, Sharma N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450382>
24. **Co-crystallization and structure determination: An effective direction for anti-SARS-CoV-2 drug discovery.** Comput Struct Biotechnol J 2021; 19:4684-4701Wang Z, Yang L, Zhao XE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426762>
25. **Next-Generation Sequencing (NGS) in COVID-19: A Tool for SARS-CoV-2 Diagnosis, Monitoring New Strains and Phylodynamic Modeling in Molecular Epidemiology.** Curr. Issues Mol. Biol. 2021; 43:845-867John G, Sahajpal NS, Mondal AK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449545>
26. **Integrated single-cell analysis unveils diverging immune features of COVID-19, influenza, and other community-acquired pneumonia.** Elife 2021; 10Schoorman AR, Reijnders TDY, Saris A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424199>
27. **Discovery of juglone and its derivatives as potent SARS-CoV-2 main proteinase inhibitors.** Eur. J. Med. Chem. 2021; 225:113789Cui J, Jia J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438124>
28. **A Computational Approach to Evaluate the Combined Effect of SARS-CoV-2 RBD Mutations and ACE2 Receptor Genetic Variants on Infectivity: The COVID-19 Host-Pathogen Nexus.** Front Cell Infect Microbiol 2021; 11:707194Ashoor D, Ben Khalaf N, Marzouq M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434902>
29. **Corrigendum: Synthesis and Cytotoxic Activity of Novel Indole Derivatives and Their in silico Screening on Spike Glycoprotein of SARS-CoV-2.** Front Mol Biosci 2021; 8:716238Gobinath P, Packialakshmi P, Vijayakumar K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422908>
30. **Methylation of Host Genes Associated with Coronavirus Infection from Birth to 26 Years.** Genes (Basel) 2021; 12Rathod R, Rathod A, Rahimabad PK *et al.*

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440372>

31. **Integrative approach identifies SLC6A20 and CXCR6 as putative causal genes for the COVID-19 GWAS signal in the 3p21.31 locus.** Genome Biol. 2021; 22:242Kasela S, Daniloski Z, Bollepalli S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425859>
32. **Emerging SARS-CoV-2 diversity revealed by rapid whole genome sequence typing.** Genome Biol. Evol. 2021; Moustafa AM, Planet PJ.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34432021>
33. **Concise Update on Genomics of COVID-19: Approach to Its latest Mutations, Escalated Contagiousness, and Vaccine Resistance.** Glob Med Genet 2021; 8:85-89Khodavirdipour A, Jabbari S, Keramat F, Alikhani MY.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430958>
34. **Drugs repurposing against SARS-CoV2 and the new variant B.1.1.7 (alpha strain) targeting the spike protein: molecular docking and simulation studies.** Heliyon 2021; 7:e07803Pande M, Kundu D, Srivastava R.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423145>
35. **Live imaging of SARS-CoV-2 infection in mice reveals that neutralizing antibodies require Fc function for optimal efficacy.** Immunity 2021; Ullah I, Prévost J, Ladinsky MS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453881>
36. **A network-based systems biology approach for identification of shared Gene signatures between male and female in COVID-19 datasets.** Inform Med Unlocked 2021; 25:100702Shahjaman M, Rezanur Rahman M, Rabiul Auwal M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423108>
37. **Vaccine design and delivery approaches for COVID-19.** Int Immunopharmacol 2021; 100:108086Shahzamani K, Mahmoudian F, Ahangarzadeh S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454291>
38. **Cell-Free Hemoglobin Does Not Attenuate the Effects of SARS-CoV-2 Spike Protein S1 Subunit in Pulmonary Endothelial Cells.** Int J Mol Sci 2021; 22Jana S, Heaven MR, Alayash AI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445747>
39. **SARS-CoV-2 Proteins Bind to Hemoglobin and Its Metabolites.** Int J Mol Sci 2021; 22Lechuga GC, Souza-Silva F, Sacramento CQ *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445741>
40. **Neutrophil Extracellular Traps (NETs) in Severe SARS-CoV-2 Lung Disease.** Int J Mol Sci 2021; 22Szturmowicz M, Demkow U.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445556>
41. **In silico study on spice-derived antiviral phytochemicals against SARS-CoV-2 TMPRSS2 target.** J Biomol Struct Dyn 2021;1-11Yadav PK, Jaiswal A, Singh RK.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427179>
42. **Weighted Gene Co-Expression Network Analysis Combined with Machine Learning Validation to Identify Key Modules and Hub Genes Associated with SARS-CoV-2 Infection.** J Clin Med 2021; 10Karami H, Derakhshani A, Ghasemigol M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441862>
43. **The emerging role of perivascular cells (pericytes) in viral pathogenesis.** J. Gen. Virol. 2021; 102Butsabong T, Felipe M, Campagnolo P, Maringer K.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34424156>
44. **Humoral response to spike S1 and S2 and nucleocapsid proteins on microarray after SARS-CoV-2 infection.** J Med Virol 2021; Portilho AI, Silva VO, Ahagon CM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428312>

45. **Effect of mutation and vaccination on spread, severity, and mortality of COVID-19 disease.** *J Med Virol* 2021; Zawbaa HM, Osama H, El-Gendy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427922>
46. **Applications of CRISPR as a potential therapeutic.** *Life Sci* 2021;119908Luthra R, Kaur S, Bhandari K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453943>
47. **Mesenchymal stem cells in SARS-CoV-2 infection: A hype or hope.** *Life Sci* 2021; 284:119901Pal D, Goyal J, Sharma U *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453941>
48. **Drug repurposing for COVID-19 using computational screening: Is Fostamatinib/ R406 a potential candidate?** *Methods* 2021; Saha S, Kumar Halder A, Bandyopadhyay SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455072>
49. **Identification of Novel Mutations in the N Gene of SARS-CoV-2 That Adversely Affect the Detection of the Virus by Reverse Transcription-Quantitative PCR.** *Microbiol Spectr* 2021; 9:e0054521Hasan R, Hossain ME, Miah M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431705>
50. **SARS-CoV-2 Spike Pseudoviruses: A Useful Tool to Study Virus Entry and Address Emerging Neutralization Escape Phenotypes.** *Microorganisms* 2021; 9Kalkeri R, Cai Z, Lin S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442823>
51. **NK Cell Subpopulations and Receptor Expression in Recovering SARS-CoV-2 Infection.** *Mol. Neurobiol.* 2021:1-10Saresella M, Trabattoni D, Marventano I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453271>
52. **Non-Toxic Dimeric Peptides Derived from the Bothropstoxin-I Are Potent SARS-CoV-2 and Papain-like Protease Inhibitors.** *Molecules* 2021; 26Freire M, Noske GD, Bitencourt NV *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443484>
53. **Experimental and computational study of naphthalimide derivatives: Synthesis, optical, nonlinear optical and antiviral properties.** *Optik (Stuttg)* 2021; 246:167748Kumar S, Muhammad S, Alarfaji SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426709>
54. **Implementation of Adenovirus-Mediated Pulmonary Expression of Human ACE2 in HLA Transgenic Mice Enables Establishment of a COVID-19 Murine Model for Assessment of Immune Responses to SARS-CoV-2 Infection.** *Pathogens* 2021; 10Chitlaru T, Bar-Haim E, Bar-On L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451403>
55. **Recombinant SARS-CoV-2 Nucleocapsid Protein: Expression, Purification, and Its Biochemical Characterization and Utility in Serological Assay Development to Assess Immunological Responses to SARS-CoV-2 Infection.** *Pathogens* 2021; 10Di D, Dileepan M, Ahmed S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451501>
56. **Potential for Developing Plant-Derived Candidate Vaccines and Biologics against Emerging Coronavirus Infections.** *Pathogens* 2021; 10Shanmugaraj B, Siri wattananon K, Malla A, Phoolcharoen W. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451516>
57. **Reynoutria Rhizomes as a Natural Source of SARS-CoV-2 Mpro Inhibitors- Molecular Docking and In Vitro Study.** *Pharmaceuticals (Basel)* 2021; 14Nawrot-Hadzik I, Zmudzinski M, Matkowski A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451839>
58. **Anticins from Antrodia cinnamomea and Antrodia salmonea Inhibit Angiotensin-Converting Enzyme 2 (ACE2) in Epithelial Cells: Can Be Potential**

- Candidates for the Development of SARS-CoV-2 Prophylactic Agents.** Plants (Basel) 2021; 10Senthil Kumar KJ, Gokila Vani M, Hsieh HW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451782>
59. **Biomedical Applications of Antiviral Nanohybrid Materials Relating to the COVID-19 Pandemic and Other Viral Crises.** Polymers (Basel) 2021; 13Homaeigohar S, Liu Q, Kordbacheh D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451371>
 60. **Repurposing the inhibitors of COVID-19 key proteins through molecular docking approach.** Process Biochem. 2021; 110:216-222Alghamdi HA, Attique SA, Yan W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421325>
 61. **Recent advancements in pulmonary arterial hypertension and right heart failure research: overview of selected abstracts from ATS2020 and emerging COVID-19 research.** Pulm Circ 2021; 11:20458940211037274Potus F, Frump AL, Umar S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434543>
 62. **Effectivity of mesenchymal stem cells for bleomycin-induced pulmonary fibrosis: a systematic review and implication for clinical application.** Stem Cell. Res. Ther. 2021; 12:470Zhao Y, Yan Z, Liu Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420515>
 63. **A meta-analysis of granulocyte-macrophage colony-stimulating factor (GM-CSF) antibody treatment for COVID-19 patients.** Ther. Adv. Chronic Dis. 2021; 12:20406223211039699Guan JT, Wang WJ, Jin D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434540>
 64. **KL-6 levels in COVID-19.** Transl Med UniSa 2020; 23:67Scarpati G, Polverino B, Boffardi M, Piazza O. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447717>
 65. **The secret identities of TMPRSS2: Fertility factor, virus trafficker, inflammation moderator, prostate protector and tumor suppressor.** Tumour Biol. 2021; 43:159-176Epstein RJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420994>
 66. **COVID-19 Research: Lessons from Non-Human Primate Models.** Vaccines (Basel) 2021; 9Albrecht L, Bishop E, Jay B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452011>
 67. **Influenza Virus-like Particle (VLP) Vaccines Expressing the SARS-CoV-2 S Glycoprotein, S1, or S2 Domains.** Vaccines (Basel) 2021; 9Chu KB, Kang HJ, Yoon KW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452044>
 68. **Biopharmaceutics 4.0, Advanced Pre-Clinical Development of mRNA-Encoded Monoclonal Antibodies to Immunosuppressed Murine Models.** Vaccines (Basel) 2021; 9Ouranidis A, Choli-Papadopoulou T, Papachristou ET *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452015>
 69. **The Post-Acute Phase of SARS-CoV-2 Infection in Two Macaque Species Is Associated with Signs of Ongoing Virus Replication and Pathology in Pulmonary and Extrapulmonary Tissues.** Viruses 2021; 13Böszörményi KP, Stammes MA, Fagrouch ZC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452537>
 70. **The Positive Rhinovirus/Enterovirus Detection and SARS-CoV-2 Persistence beyond the Acute Infection Phase: An Intra-Household Surveillance Study.** Viruses 2021; 13Brotons P, Jordan I, Bassat Q *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452462>
 71. **Severe SARS-CoV-2 Infection in a Cat with Hypertrophic Cardiomyopathy.** Viruses 2021; 13Carvallo FR, Martins M, Joshi LR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452375>

72. **Comparative Computational Modeling of the Bat and Human Immune Response to Viral Infection with the Comparative Biology Immune Agent Based Model.** Viruses 2021; 13Cockrell C, An G.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452484>
73. **Non-Nucleotide RNA-Dependent RNA Polymerase Inhibitor That Blocks SARS-CoV-2 Replication.** Viruses 2021; 13Dejmek M, Konkol'ová E, Eyer L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452451>
74. **Detection of SARS-CoV-2 Derived Small RNAs and Changes in Circulating Small RNAs Associated with COVID-19.** Viruses 2021; 13Grehl C, Schultheiß C, Hoffmann K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452458>
75. **Animal Coronavirus Diseases: Parallels with COVID-19 in Humans.** Viruses 2021; 13Lin CN, Chan KR, Ooi EE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452372>
76. **Plant-Produced Glycosylated and In Vivo Deglycosylated Receptor Binding Domain Proteins of SARS-CoV-2 Induce Potent Neutralizing Responses in Mice.** Viruses 2021; 13Mamedov T, Yuksel D, Ilgin M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452461>
77. **Detection of IFN γ -Secreting CD4(+) and CD8(+) Memory T Cells in COVID-19 Convalescents after Stimulation of Peripheral Blood Mononuclear Cells with Live SARS-CoV-2.** Viruses 2021; 13Matyushenko V, Isakova-Sivak I, Kudryavtsev I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452355>
78. **The Alpha Variant (B.1.1.7) of SARS-CoV-2 in Children: First Experience from 3544 Nucleic Acid Amplification Tests in a Cohort of Children in Germany.** Viruses 2021; 13Meyer M, Holfter A, Ruebsteck E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452464>
79. **Peptide Platform as a Powerful Tool in the Fight against COVID-19.** Viruses 2021; 13Murdocca M, Citro G, Romeo I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452531>
80. **Protective Effects of Astodimer Sodium 1% Nasal Spray Formulation against SARS-CoV-2 Nasal Challenge in K18-hACE2 Mice.** Viruses 2021; 13Paull JRA, Luscombe CA, Castellarnau A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452519>
81. **Emergence of E484K Mutation Following Bamlanivimab Monotherapy among High-Risk Patients Infected with the Alpha Variant of SARS-CoV-2.** Viruses 2021; 13Peiffer-Smadja N, Bridier-Nahmias A, Ferré VM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452507>
82. **Clinical and Histopathologic Features of a Feline SARS-CoV-2 Infection Model Are Analogous to Acute COVID-19 in Humans.** Viruses 2021; 13Rudd JM, Tamil Selvan M, Cowan S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452415>
83. **Coronavirus Pseudotypes for All Circulating Human Coronaviruses for Quantification of Cross-Neutralizing Antibody Responses.** Viruses 2021; 13Sampson AT, Heeney J, Cantoni D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452443>
84. **Characterization of the SARS-CoV-2 Host Response in Primary Human Airway Epithelial Cells from Aged Individuals.** Viruses 2021; 13Subramaniyan B, Larabee JL, Bodas M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452468>
85. **Modeling Within-Host Dynamics of SARS-CoV-2 Infection: A Case Study in Ferrets.** Viruses 2021; 13Vaidya NK, Bloomquist A, Perelson AS.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452499>

86. **Serological Screening for Antibodies against SARS-CoV-2 in Dutch Shelter Cats.** *Viruses* 2021; 13:van der Leij WJR, Broens EM, Hesselink JW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452497>
87. **Elicitation of Broadly Neutralizing Antibodies against B.1.1.7, B.1.351, and B.1.617.1 SARS-CoV-2 Variants by Three Prototype Strain-Derived Recombinant Protein Vaccines.** *Viruses* 2021; 13:Yang Y, Zang J, Xu S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452287>
88. **May mesenchymal stem cell transplantation be a solution for COVID-19 induced cytokine storm?** *World J Transplant* 2021; 11:344-355Sütlüoğlu H, Özdemir Ö. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447671>

Biomarkers - Genetics (195 articles)

1. **Accessible Platform for High-Throughput COVID-19 Molecular Diagnostics and Genome Sequencing Using a Repurposed 3D Printer for RNA Extraction.** *ACS Biomater Sci Eng* 2021; Vandellannoote K, Buultjens AH, Li L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437802>
2. **Characterization of the Human Oropharyngeal Microbiomes in SARS-CoV-2 Infection and Recovery Patients.** *Adv Sci (Weinh)* 2021:e2102785Gao M, Wang H, Luo H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423593>
3. **A case of COVID-19 re-infection in Libya.** *Afr J Thorac Crit Care Med* 2021; 27Alzedam A, Bengblya AM, Zeglam MJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430866>
4. **Lymphopenia and IgG2 subclass deficiency in patients with severe COVID-19 pneumonia.** *Afr J Thorac Crit Care Med* 2021; 27Taban EM, Tintinger GR, Joseph D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430865>
5. **Prevalence of SARS-CoV-2 IgG antibodies in health care workers at a tertiary care academic medical center - An assessment of occupational infection risk.** *Am. J. Infect. Control* 2021; 49:1158-1161Forster D, Lin N, Levens J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454683>
6. **Increased Angiotensin-Converting Enzyme 2 and Loss of Alveolar Type II Cells in COVID-19 Related ARDS.** *Am J Respir Crit Care Med* 2021; Gerard L, Lecocq M, Bouzin C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449302>
7. **Acute Lung Injury Biomarkers in the Prediction of COVID-19 Severity: Total Thiol, Ferritin and Lactate Dehydrogenase.** *Antioxidants (Basel)* 2021; 10Martinez Mesa A, Cabrera César E, Martín-Montañez E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439469>
8. **Exploring the Role of Heavy Metals and Their Derivatives on the Pathophysiology of COVID-19.** *Biol. Trace Elem. Res.* 2021:1-12Bahrami A, Arabestani MR, Taheri M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448983>
9. **Pre-Existing Diabetes and COVID-Associated Hyperglycaemia in Patients with COVID-19 Pneumonia.** *Biology (Basel)* 2021; 10Laurenzi A, Caretto A, Molinari C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439986>
10. **Clinical Outcome Prediction in COVID-19 Patients by Lymphocyte Subsets Analysis and Monocytes' iTNF- α Expression.** *Biology (Basel)* 2021; 10Madonna G, Sale S, Capone M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439967>
11. **suPAR Cut-Offs for Risk Stratification in Patients With Symptoms of COVID-19.** *Biomark. Insights* 2021; 16:11772719211034685Altintas I, Eugen-Olsen J,

- Seppälä S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421295>
12. **MMP-2 and MMP-9 levels in plasma are altered and associated with mortality in COVID-19 patients.** *Biomed. Pharmacother.* 2021; 142:112067C DA-M, Couto AES, Campos LCB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449310>
 13. **Well-Known and Novel Players in Endothelial Dysfunction: Updates on a Notch(ed) Landscape.** *Biomedicines* 2021; 9Fortini F, Viecei Dalla Sega F, Marracino L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440201>
 14. **Anti-Phospholipid Antibodies and COVID-19 Thrombosis: A Co-Star, Not a Supporting Actor.** *Biomedicines* 2021; 9Gil-Etayo FJ, Garcinuño S, Lalueza A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440103>
 15. **Structural Dissection of Viral Spike-Protein Binding of SARS-CoV-2 and SARS-CoV-1 to the Human Angiotensin-Converting Enzyme 2 (ACE2) as Cellular Receptor.** *Biomedicines* 2021; 9Giordano D, De Masi L, Argenio MA, Facchiano A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440241>
 16. **Multiple-Organ Complement Deposition on Vascular Endothelium in COVID-19 Patients.** *Biomedicines* 2021; 9Macor P, Durigutto P, Mangogna A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440207>
 17. **Diagnostic Significance of Serum Galectin-3 in Hospitalized Patients with COVID-19-A Preliminary Study.** *Biomolecules* 2021; 11Kuśnierz-Cabala B, Maziarz B, Dumnicka P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439802>
 18. **Relevance of BET Family Proteins in SARS-CoV-2 Infection.** *Biomolecules* 2021; 11Lara-Ureña N, García-Domínguez M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439792>
 19. **Cytokine Storms in the Course of COVID-19 and Haemophagocytic Lymphohistiocytosis in Pregnant and Postpartum Women.** *Biomolecules* 2021; 11Obuchowska A, Standyło A, Obuchowska K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439868>
 20. **Low Seroprevalence of SARS-CoV-2 in Rhode Island blood donors during may 2020 as determined using multiple serological assay formats.** *BMC Infect. Dis.* 2021; 21:871Nesbitt DJ, Jin DP, Hogan JW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433423>
 21. **A case-control study of factors associated with SARS-CoV-2 infection among healthcare workers in Colombia.** *BMC Infect. Dis.* 2021; 21:878Rodriguez-Lopez M, Parra B, Vergara E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452600>
 22. **Comparative kinetics of SARS-CoV-2 anti-spike protein RBD IgGs and neutralizing antibodies in convalescent and naïve recipients of the BNT162b2 mRNA vaccine versus COVID-19 patients.** *BMC Med* 2021; 19:208Trogakos IP, Terpos E, Zirou C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420521>
 23. **An oral combined contraceptive user with elevated D-dimer post COVID-19: a case report.** *BMC Womens Health* 2021; 21:320Alyousefi NA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454488>
 24. **Translational deep phenotyping of deaths related to the COVID-19 pandemic: protocol for a prospective observational autopsy study.** *BMJ Open* 2021; 11:e049083Henningesen MJ, Khatam-Lashgari A, Olsen KB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452963>
 25. **D-dimers: a most misunderstood test.** *Br. J. Hosp. Med. (Lond.)* 2021; 82:1-5Carter-Brzezinski L, Houston S, Thachil J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431346>

26. **Persistent clotting protein pathology in Long COVID/Post-Acute Sequelae of COVID-19 (PASC) is accompanied by increased levels of antiplasmin.** Cardiovasc. Diabetol. 2021; 20:172 Pretorius E, Vlok M, Venter C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425843>
27. **A novel hypothesis for COVID-19 pathogenesis: Retinol depletion and retinoid signaling disorder.** Cell. Signal. 2021; 87:110121 Sarohan AR, Kızıl M, İnkaya A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438017>
28. **A Fragile Balance: Does Neutrophil Extracellular Trap Formation Drive Pulmonary Disease Progression?** Cells 2021; 10 Block H, Zarbock A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440701>
29. **Diagnostic Performance of SARS-CoV-2 Rapid Antigen Test in a Large, German Cohort.** Children (Basel) 2021; 8 Mboma O, Rieke E, Ahmad-Nejad P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438573>
30. **Multiplex assessment of SARS-CoV-2 antibodies improves assay sensitivity and correlation with neutralizing antibodies.** Clin. Biochem. 2021; Cook N, Xu L, Hegazy S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453893>
31. **COVID-19 reinfection or reactivation in a renal transplant patient.** Clin Case Rep 2021; 9:e04672 Abolghasemi S, Zolfaghari F, Naeimipoor M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430026>
32. **Daily monitoring of viral load measured as SARS-CoV-2 antigen and RNA in blood, IL-6, CRP and complement C3d predicts outcome in patients hospitalized with COVID-19.** Clin Chem Lab Med 2021; Brasen CL, Christensen H, Olsen DA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455731>
33. **Harmonization of six quantitative SARS-CoV-2 serological assays using sera of vaccinated subjects.** Clin Chim Acta 2021; 522:144-151 Ferrari D, Clementi N, Span√≤ SM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425105>
34. **SARS-CoV-2 Reinfection: A Case Series from a 12-Month Longitudinal Occupational Cohort.** Clin Infect Dis 2021; Mack CD, Tai C, Sikka R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453431>
35. **Clinical and virological features of SARS-CoV-2 variants of concern: a retrospective cohort study comparing B.1.1.7 (Alpha), B.1.315 (Beta), and B.1.617.2 (Delta).** Clin Infect Dis 2021; Ong SWX, Chiew CJ, Ang LW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423834>
36. **Antibodies against type I interferon: detection and association with severe clinical outcome in COVID-19 patients.** Clin Transl Immunology 2021; 10:e1327 Goncalves D, Mezidi M, Bastard P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429968>
37. **Automatic detection of COVID-19 using pruned GLCM-Based texture features and LDCRF classification.** Comput. Biol. Med. 2021; 137:104781 Bakheet S, Al-Hamadi A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455303>
38. **The Impact of SARS-CoV-2 Viral Load on the Mortality of Hospitalized Patients: A Retrospective Analysis.** Cureus 2021; 13:e16540 Machado A, Salvador P, Oliveira P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430148>
39. **The Relation of ABO Blood Group to the Severity of Coronavirus Disease: A Cross-Sectional Study From a Tertiary Care Hospital in Karachi.** Cureus 2021; 13:e16598 Rehman FU, Omair SF, Memon F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430180>
40. **Next-Generation Sequencing (NGS) in COVID-19: A Tool for SARS-CoV-2 Diagnosis, Monitoring New Strains and Phylodynamic Modeling in Molecular**

- Epidemiology.** *Curr. Issues Mol. Biol.* 2021; 43:845-867 John G, Sahajpal NS, Mondal AK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449545>
41. **Pulse oximeter and respiratory rate: What must be observed in the monitoring of COVID-19 at home.** *Deutsches Arzteblatt International* 2021; 118:A-726 Schlenger RL.
 42. **FROM SWAB TESTING TO HEALTH OUTCOMES WITHIN THE T2DM POPULATION: IMPACT OF DIABETES BACKGROUND ON COVID19 PROGRESSION.** *Diabetes Res Clin Pract* 2021:109021 Bruno Giorda C, Picariello R, Tartaglino B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437941>
 43. **SARS-CoV-2 N gene mutations impact detection by clinical molecular diagnostics: reports in two cities in the United States.** *Diagn. Microbiol. Infect. Dis.* 2021; 101:115468 Leelawong M, Mitchell SL, Fowler RC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425451>
 44. **Evaluation of commercial SARS-CoV-2 serological assays in Canadian public health laboratories.** *Diagn. Microbiol. Infect. Dis.* 2021; 101:115412 Stein DR, Osiowy C, Gretchen A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425450>
 45. **Comparison of SARS-CoV-2 antigen electrochemiluminescence immunoassay to RT-PCR assay for laboratory diagnosis of COVID-19 in Peshawar.** *Diagnosis (Berl)* 2021; Iqbal B, Khan M, Shah N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455727>
 46. **Diagnostic Properties of Three SARS-CoV-2 Antibody Tests.** *Diagnostics (Basel)* 2021; 11 Basgalupp S, Dos Santos G, Bessel M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441375>
 47. **Development and Evaluation of a Set of Spike and Receptor Binding Domain-Based Enzyme-Linked Immunosorbent Assays for SARS-CoV-2 Serological Testing.** *Diagnostics (Basel)* 2021; 11 Camacho-Sandoval R, Nieto-Patlán A, Carballo-Uicab G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441440>
 48. **Mouth Washing Impaired SARS-CoV-2 Detection in Saliva.** *Diagnostics (Basel)* 2021; 11 Costa MM, Benoit N, Tissot-Dupont H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441446>
 49. **Forecasting COVID-19 Severity by Intelligent Optical Fingerprinting of Blood Samples.** *Diagnostics (Basel)* 2021; 11 Faria SP, Carpinteiro C, Pinto V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441244>
 50. **TREC/KREC Levels in Young COVID-19 Patients.** *Diagnostics (Basel)* 2021; 11 Khadzhieva MB, Kalinina EV, Larin SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441420>
 51. **Characterization of the Diagnostic Performance of a Novel COVID-19 PETIA in Comparison to Four Routine N-, S- and RBD-Antigen Based Immunoassays.** *Diagnostics (Basel)* 2021; 11 Spaeth A, Masetto T, Brehm J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441268>
 52. **Residual-Shuffle Network with Spatial Pyramid Pooling Module for COVID-19 Screening.** *Diagnostics (Basel)* 2021; 11 Zulkifley MA, Abdani SR, Zulkifley NH, Shahrinin MI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441431>
 53. **Predictive Model of Severity in SARS CoV-2 Patients at Hospital Admission Using Blood-Related Parameters.** *Ejifcc* 2021; 32:255-264 Gvmez LC, Curto SV, Sebastian MBP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421494>
 54. **Catering for the Point-of-Care Testing Explosion.** *Ejifcc* 2021; 32:244-254 Khan AI, Khan M, Tirimacco R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421493>

55. **Clinical Assessment of the DiaSorin LIAISON SARS-CoV-2 Ag Chemiluminescence Immunoassay.** *Ejifcc* 2021; 32:216-223 Salvagno GL, Gianfilippi G, Fiorio G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421491>
56. **Integrated single-cell analysis unveils diverging immune features of COVID-19, influenza, and other community-acquired pneumonia.** *Elife* 2021; 10 Schuurman AR, Reijnders TDY, Saris A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424199>
57. **Prevalence of SARS-CoV-2 Antibodies after First 6 Months of COVID-19 Pandemic, Portugal.** *Emerg Infect Dis* 2021; 27 Canto ECL, Pereira AHG, Ribeiro R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437830>
58. **Real-Time Genomics for Tracking Severe Acute Respiratory Syndrome Coronavirus 2 Border Incursions after Virus Elimination, New Zealand.** *Emerg Infect Dis* 2021; 27:2361-2368 Douglas J, Geoghegan JL, Hadfield J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424164>
59. **Correlation of SARS-CoV-2 Subgenomic RNA with Antigen Detection in Nasal Midturbinate Swab Specimens.** *Emerg Infect Dis* 2021; 27 Immergluck K, Gonzalez MD, Frediani JK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424838>
60. **SARS-CoV-2 Wastewater Surveillance for Public Health Action.** *Emerg Infect Dis* 2021; 27:1-8 McClary-Gutierrez JS, Mattioli MC, Marcenac P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424162>
61. **A Community-Adapted Approach to SARS-CoV-2 Testing for Medically Underserved Populations, Rhode Island, USA.** *Emerg Infect Dis* 2021; 27:2445-2449 Murphy M, Dhrolia I, Zanolwick-Marr A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424174>
62. **Seroprevalence of SARS-CoV-2-Specific Antibodies among Quarantined Close Contacts of COVID-19 Patients, Faroe Islands, 2020.** *Emerg Infect Dis* 2021; 27 Petersen MS, Kristiansen MF, Reinert HW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437829>
63. **Real-Time Genomic Surveillance for SARS-CoV-2 Variants of Concern, Uruguay.** *Emerg Infect Dis* 2021; 27 Rego N, Costábile A, Paz M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437831>
64. **Simple concentration method enables the use of gargle and mouthwash instead of nasopharyngeal swab sampling for the diagnosis of COVID-19 by PCR.** *Eur J Clin Microbiol Infect Dis* 2021:1-6 Kocagoz T, Can O, Yurttutan Uyar N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448088>
65. **Assessment of the risk of infection among Romanian physicians at the outbreak of the SARS CoV-2 pandemic.** *Eur J Gen Pract* 2021; 27:235-240 Herdea V, Duduciuc A, Ghionaru R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431427>
66. **SARS-CoV-2-reactive T cell receptors isolated from convalescent COVID-19 patients confer potent T cell effector function.** *Eur. J. Immunol.* 2021; Brunk F, Moritz A, Nelde A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424997>
67. **SARS-CoV-2 infection and transmission in school settings during the second COVID-19 wave: a cross-sectional study, Berlin, Germany, November 2020.** *Euro Surveill* 2021; 26 Theuring S, Thielecke M, van Loon W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448448>
68. **Variants in SARS-CoV-2 associated with mild or severe outcome.** *Evol Med Public Health* 2021; 9:267-275 Voss JD, Skarzynski M, McAuley EM *et al.*

- <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447577>
69. **Clinical Implications of IL-32, IL-34 and IL-37 in Atherosclerosis: Speculative Role in Cardiovascular Manifestations of COVID-19.** Front Cardiovasc Med 2021; 8:630767Law CC, Puranik R, Fan J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422917>
70. **A Computational Approach to Evaluate the Combined Effect of SARS-CoV-2 RBD Mutations and ACE2 Receptor Genetic Variants on Infectivity: The COVID-19 Host-Pathogen Nexus.** Front Cell Infect Microbiol 2021; 11:707194Ashoor D, Ben Khalaf N, Marzouq M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434902>
71. **The Interferon-Induced Transmembrane Protein 3 -rs12252 Allele May Predict COVID-19 Severity Among Ethnic Minorities.** Front Genet 2021; 12:692254Mohammed FS, Farooqi YN, Mohammed S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434219>
72. **Update Advances on C-Reactive Protein in COVID-19 and Other Viral Infections.** Front. Immunol. 2021; 12:720363Luan YY, Yin CH, Yao YM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447386>
73. **Role of Th22 Cells in Human Viral Diseases.** Front Med (Lausanne) 2021; 8:708140Gong J, Zhan H, Liang Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434945>
74. **Integrative approach identifies SLC6A20 and CXCR6 as putative causal genes for the COVID-19 GWAS signal in the 3p21.31 locus.** Genome Biol. 2021; 22:242Kasela S, Daniloski Z, Bollepalli S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425859>
75. **Emerging SARS-CoV-2 diversity revealed by rapid whole genome sequence typing.** Genome Biol. Evol. 2021; Moustafa AM, Planet PJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432021>
76. **Concise Update on Genomics of COVID-19: Approach to Its latest Mutations, Escalated Contagiousness, and Vaccine Resistance.** Glob Med Genet 2021; 8:85-89Khodavirdipour A, Jabbari S, Keramat F, Alikhani MY. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430958>
77. **Immunohistochemical and qPCR Detection of SARS-CoV-2 in the Human Middle Ear Versus the Nasal Cavity: Case Series.** Head Neck Pathol. 2021;1-5Kurabi A, Pak K, DeConde AS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455569>
78. **The effect of correlation and false negatives in pool testing strategies for COVID-19.** Health Care Manag Sci 2021;1-20Basso LJ, Salinas V, Sauré D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453651>
79. **Calprotectin and SARS-CoV-2: A Brief-Report of the Current Literature.** Healthcare (Basel) 2021; 9Giuffrè M, Vetrugno L, Di Bella S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442092>
80. **Neurological effects of elevated levels of angiotensin II in COVID-19 patients.** Hum. Cell 2021;1-2Khezri MR, Ghasemnejad-Berenji M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449020>
81. **Distinct Regulation of U-ACE2 and P-ACE2 (Urinary and Plasma Angiotensin-Converting Enzyme 2) in a Japanese General Population.** Hypertension 2021:Hypertensionaha12117674Furuhashi M, Sakai A, Tanaka M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420372>

82. **Ferritin level: A predictor of severity and mortality in hospitalized COVID-19 patients.** Immun Inflamm Dis 2021; Alroomi M, Rajan R, Omar AA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34438471>
83. **Genome interaction of the virus and the host genes and non-coding RNAs in SARS-CoV-2 infection.** Immunobiology 2021; 226:152130Serpeloni JM, Lima Neto QA, Lucio LC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425415>
84. **Sequential Profiling of Anti-SARS CoV-2 IgG Antibody in Post COVID-19 Patients.** Indian J. Clin. Biochem. 2021:1-7Sukumaran A, Thomas RE, Krishnan RA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421232>
85. **Early detection of the SARS-CoV-2 P.1 variant in Rio Grande do Sul, Brazil: a case report.** Infect Control Hosp Epidemiol 2021:1-7Volpato FCZ, Wink PL, Monteiro FL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446125>
86. **SARS-COV-2 seroprevalence among all healthcare workers in a tertiary hospital in Spain.** Infect Dis (Lond) 2021:1-8Cantero M, Millv^on-Pv^orez R, Murv[±]ez E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424122>
87. **Anterior nasal versus nasal mid-turbinate sampling for a SARS-CoV-2 antigen-detecting rapid test: does localisation or professional collection matter?** Infect Dis (Lond) 2021:1-6Nikolai O, Rohardt C, Tobian F *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445926>
88. **Performance of Qualitative and Quantitative Antigen Tests for SARS-CoV-2 Using Saliva.** Infect Dis Rep 2021; 13:742-747Yokota I, Sakurazawa T, Sugita J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449650>
89. **Preliminary Evaluation of QuantiFERON SARS-CoV-2 and QIAreach Anti-SARS-CoV-2 Total Test in Recently Vaccinated Individuals.** Infect Dis Ther 2021:1-12Jaganathan S, Stieber F, Rao SN *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435336>
90. **Clinical Comparison of Three Sample-to-Answer Systems for Detecting SARS-CoV-2 in B.1.1.7 Lineage Emergence.** Infect Drug Resist 2021; 14:3255-3261Jian MJ, Chung HY, Chang CK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429623>
91. **Analytical Performance Evaluation of Three Commercial Rapid Nucleic Acid Assays for SARS-CoV-2.** Infect Drug Resist 2021; 14:3169-3174Yi J, Han X, Wang Z *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429616>
92. **Seroconversion Following SARS-CoV-2 Infection or Vaccination in Pediatric IBD Patients.** Inflamm. Bowel Dis. 2021; Spencer EA, Klang E, Dolinger M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427638>
93. **COVID-19 disrupts the blood-testis barrier through the induction of inflammatory cytokines and disruption of junctional proteins.** Inflamm Res 2021:1-11Peirouvi T, Aliaghaei A, Eslami Farsani B *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34436630>
94. **A network-based systems biology approach for identification of shared Gene signatures between male and female in COVID-19 datasets.** Inform Med Unlocked 2021; 25:100702Shahjaman M, Rezanur Rahman M, Rabiul Auwal M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423108>
95. **Nasopharyngeal Testing among Healthcare Workers (HCWs) of a Large University Hospital in Milan, Italy during Two Epidemic Waves of COVID-19.** Int J Environ Res Public Health 2021; 18Comelli A, Consonni D, Lombardi A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444497>

96. **The Effects of Reduced Physical Activity on the Lipid Profile in Patients with High Cardiovascular Risk during COVID-19 Lockdown.** Int J Environ Res Public Health 2021; 18Perrone MA, Feola A, Pieri M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444607>
97. **Development of a Web GIS for small-scale detection and analysis of COVID-19 (SARS-CoV-2) cases based on volunteered geographic information for the city of Cologne, Germany, in July/August 2020.** Int J Health Geogr 2021; 20:40Schmidt F, Dröge-Rothaar A, Rienow A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454536>
98. **Perfluorobutanoic acid (PFBA): No high-level accumulation in human lung and kidney tissue.** Int J Hyg Environ Health 2021; 237:113830Abraham K, El-Khatib AH, Schwerdtle T, Monien BH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450542>
99. **Serum trace elements levels and clinical outcomes among Iranian COVID-19 patients.** Int J Infect Dis 2021; Pour OB, Yahyavi Y, Karimi A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454118>
100. **Novel Nested-Seq Approach for SARS-CoV-2 Real-Time Epidemiology and In-Depth Mutational Profiling in Wastewater.** Int J Mol Sci 2021; 22Avgeris M, Adamopoulos PG, Galani A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445204>
101. **RT-qPCR Diagnostics: The "Drosten" SARS-CoV-2 Assay Paradigm.** Int J Mol Sci 2021; 22Bustin S, Kirvell S, Huggett JF, Nolan T.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445406>
102. **Putative Role of Vitamin D for COVID-19 Vaccination.** Int J Mol Sci 2021; 22Chiu SK, Tsai KW, Wu CC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445700>
103. **Iterated Virtual Screening-Assisted Antiviral and Enzyme Inhibition Assays Reveal the Discovery of Novel Promising Anti-SARS-CoV-2 with Dual Activity.** Int J Mol Sci 2021; 22Hamdy R, Fayed B, Mostafa A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445763>
104. **Cell-Free Hemoglobin Does Not Attenuate the Effects of SARS-CoV-2 Spike Protein S1 Subunit in Pulmonary Endothelial Cells.** Int J Mol Sci 2021; 22Jana S, Heaven MR, Alayash AI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445747>
105. **SARS-CoV-2 Proteins Bind to Hemoglobin and Its Metabolites.** Int J Mol Sci 2021; 22Lechuga GC, Souza-Silva F, Sacramento CQ *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445741>
106. **Adaptive Immunity and the Risk of Autoreactivity in COVID-19.** Int J Mol Sci 2021; 22Moody R, Wilson K, Flanagan KL *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445670>
107. **Anti-SARS-CoV-2 Strategies and the Potential Role of miRNA in the Assessment of COVID-19 Morbidity, Recurrence, and Therapy.** Int J Mol Sci 2021; 22Narožna M, Rubiś B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445368>
108. **Severe COVID-19 Patients Show an Increase in Soluble TNFR1 and ADAM17, with a Relationship to Mortality.** Int J Mol Sci 2021; 22Palacios Y, Ruiz A, Ramón-Luing LA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445140>
109. **Pneumonia Due to Human Coronavirus OC43 in an Immunocompetent Adult Detected by Multiplex Polymerase Chain Reaction.** Intern Med 2021; Kawataki M, Ito A, Ishida T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433714>
110. **Mass Spectrometry-Based Human Breath Analysis: Towards COVID-19 Diagnosis and Research.** J Anal Test 2021;1-11Yuan ZC, Hu B.

- <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422436>
111. **CIDO ontology updates and secondary analysis of host responses to COVID-19 infection based on ImmPort reports and literature.** J. Biomed. Semantics 2021; 12:18 Huffman A, Masci AM, Zheng J *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454610>
 112. **Inhibition of multiple SARS-CoV-2 proteins by an antiviral biomolecule, seselin from Aegle marmelos deciphered using molecular docking analysis.** J Biomol Struct Dyn 2021:1-12 Nivetha R, Bhuvaragavan S, Muthu Kumar T *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34431451>
 113. **In silico screening of Pueraria tuberosa (PTY-2) for targeting COVID-19 by countering dual targets M(pro) and TMPRSS2.** J Biomol Struct Dyn 2021:1-14 Shree P, Mishra P, Kumar P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424815>
 114. **The autoimmune signature of hyperinflammatory multisystem inflammatory syndrome in children.** J. Clin. Invest. 2021; Porritt RA, Binek A, Paschold L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34437303>
 115. **Group IIA secreted phospholipase A2 is associated with the pathobiology leading to COVID-19 mortality.** J. Clin. Invest. 2021; Snider JM, You JK, Wang X *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428181>
 116. **Predictors of Hypoxemia and Related Adverse Outcomes in Patients Hospitalized with COVID-19: A Double-Center Retrospective Study.** J Clin Med 2021; 10 Asleh R, Asher E, Yagel O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441877>
 117. **Ruling Out Coronavirus Disease 2019 in Patients with Pneumonia: The Role of Blood Cell Count and Lung Ultrasound.** J Clin Med 2021; 10 Biolo G, Fiotti N, Cominotto F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441777>
 118. **D-Dimer Levels Are Not Elevated in SARS-CoV-2 IgG Positive Patients Undergoing Elective Orthopedic Surgery.** J Clin Med 2021; 10 Jungwirth-Weinberger A, Oezel L, Morgenstern R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441803>
 119. **Weighted Gene Co-Expression Network Analysis Combined with Machine Learning Validation to Identify Key Modules and Hub Genes Associated with SARS-CoV-2 Infection.** J Clin Med 2021; 10 Karami H, Derakhshani A, Ghasemigol M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441862>
 120. **Diagnostic Accuracy of Rapid Antigen Test Kits for Detecting SARS-CoV-2: A Systematic Review and Meta-Analysis of 17,171 Suspected COVID-19 Patients.** J Clin Med 2021; 10 Handker SS, Nik Hashim NHH, Deris ZZ *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441789>
 121. **Early Measurement of Blood sST2 Is a Good Predictor of Death and Poor Outcomes in Patients Admitted for COVID-19 Infection.** J Clin Med 2021; 10 Sánchez-Martel M, Rubio-Gracia J, Peña-Fresneda N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441830>
 122. **Patients Admitted for Variant Alpha COVID-19 Have Poorer Outcomes than Those Infected with the Old Strain.** J Clin Med 2021; 10 Vassallo M, Manni S, Klotz C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441844>
 123. **Time-course evaluation of the quantitative antigen test for severe acute respiratory syndrome coronavirus 2: The potential contribution to alleviating isolation of COVID-19 patients.** J Infect Chemother 2021; Nomoto H, Yamamoto K, Yamada G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454833>

124. **High Thermal Amplitude Red Blood Cell Agglutinating Cold Type Autoantibodies in a Case of Severe Acute Respiratory Syndrome Coronavirus 2 Pneumonia and Multiorgan Failure.** *J. Med. Cases* 2021; 12:16-17Hassanein H, Hajdenberg J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434421>
125. **Analysis of serum cytokine and protective vitamin D levels in severe cases of COVID-19.** *J Med Virol* 2021; Bayraktar N, Turan H, Bayraktar M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427934>
126. **Humoral response to spike S1 and S2 and nucleocapsid proteins on microarray after SARS-CoV-2 infection.** *J Med Virol* 2021; Portilho AI, Silva VO, Ahagon CM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428312>
127. **Effect of mutation and vaccination on spread, severity, and mortality of COVID-19 disease.** *J Med Virol* 2021; Zawbaa HM, Osama H, El-Gendy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427922>
128. **Vitamin D Levels in Asymptomatic Children and Adolescents with Atopy during the COVID-19 Era.** *J Pers Med* 2021; 11Feketea G, Vlach V, Tsiros G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442356>
129. **Impact of Pneumococcal Urinary Antigen Testing in COVID-19 Patients: Outcomes from the San Matteo COVID-19 Registry (SMACORE).** *J Pers Med* 2021; 11Valsecchi P, Colaneri M, Zuccaro V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442406>
130. **Epidemiological, Clinical, and Laboratory Predictors of In-Hospital Mortality Among COVID-19 Patients Admitted in a Tertiary COVID Dedicated Hospital, Northern India: A Retrospective Observational Study.** *J. Prim. Care Community Health* 2021; 12:21501327211041486Ahmad S, Kumar P, Shekhar S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427136>
131. **Vitamin D Status and Severe COVID-19 Disease Outcomes in Hospitalized Patients.** *J. Prim. Care Community Health* 2021; 12:21501327211041206Pecina JL, Merry SP, Park JG, Thacher TD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452582>
132. **A dynamic mucin mRNA signature associates with COVID-19 disease presentation and severity.** *JCI Insight* 2021; Smet A, Breugelmans T, Michiels J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448730>
133. **Emergence of the First Strains of SARS-CoV-2 Lineage B.1.1.7 in Romania: Genomic Analysis.** *JMIRx Med* 2021; 2:e28049Lobiuc A, Dimian M, Sturdza O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424256>
134. **Lean Principles to Improve Quality in High-Throughput COVID-19 Testing Using SwabSeq: A Barcoded Sequencing-Based Testing Platform.** *Lab Med* 2021; Jones J, Saul R, Sathe L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436601>
135. **Metabolic Changes in SARS-CoV-2 Infection: Clinical Data and Molecular Hypothesis to Explain Alterations of Lipid Profile and Thyroid Function Observed in COVID-19 Patients.** *Life (Basel)* 2021; 11D'Ardes D, Rossi I, Bucciarelli B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440605>
136. **The Rise of SARS-CoV-2 Variants and the Role of Convalescent Plasma Therapy for Management of Infections.** *Life (Basel)* 2021; 11Moubarak M, Kasozi KI, Hetta HF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440478>
137. **Prolactin and susceptibility to COVID-19 infection.** *Med. Hypotheses* 2021; 155:110662Mirzaei F, Tavilani A, Asefy Z, Abbasi E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425453>

138. **The Angiotensin Converting Enzyme Deletion/Deletion Genotype Is a Risk Factor for Severe COVID-19: Implication and Utility for Patients Admitted to Emergency Department.** Medicina (Kaunas) 2021; 57Annunziata A, Coppola A, Di Spirito V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441050>
139. **Performance of Antigen-Based Testing as Frontline Diagnosis of Symptomatic COVID-19.** Medicina (Kaunas) 2021; 57Murillo-Zamora E, Trujillo X, Huerta M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441058>
140. **Identification of Novel Mutations in the N Gene of SARS-CoV-2 That Adversely Affect the Detection of the Virus by Reverse Transcription-Quantitative PCR.** Microbiol Spectr 2021; 9:e0054521Hasan R, Hossain ME, Miah M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431705>
141. **Detection of SARS-CoV-2 Infection in Gargle, Spit, and Sputum Specimens.** Microbiol Spectr 2021; 9:e0003521Poukka E, Mäkelä H, Hagberg L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431686>
142. **Molecular Mirror Technology Facilitates High-Throughput, Accurate SARS-CoV-2 Testing.** Microbiol Spectr 2021; 9:e0039221Realegeno S, Hash S, Wong C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431687>
143. **Towards Fully Integrated Portable Sensing Devices for COVID-19 and Future Global Hazards: Recent Advances, Challenges, and Prospects.** Micromachines (Basel) 2021; 12Shaffaf T, Forouhi S, Ghafar-Zadeh E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442537>
144. **Sars-CoV-2 Virus Infection May Interfere CD34+ Hematopoietic Stem Cells and Megakaryocyte-Erythroid Progenitors Differentiation Contributing to Platelet Defection towards Insurgence of Thrombocytopenia and Thrombophilia.** Microorganisms 2021; 9Balzanelli MG, Distratis P, Dipalma G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442710>
145. **Gut Dysbiosis during COVID-19 and Potential Effect of Probiotics.** Microorganisms 2021; 9Hung YP, Lee CC, Lee JC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442684>
146. **Molecular Epidemiology of SARS-CoV-2 in Diverse Environmental Samples Globally.** Microorganisms 2021; 9Islam A, Sayeed MA, Kalam MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442775>
147. **The Impact of Angiotensin-Converting Enzyme 2 (ACE2) Expression Levels in Patients with Comorbidities on COVID-19 Severity: A Comprehensive Review.** Microorganisms 2021; 9Rodrigues R, Costa de Oliveira S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442770>
148. **Vitamin D deficiency: concern for rheumatoid arthritis and COVID-19?** Mol. Cell. Biochem. 2021;1-12Verma S, Chaturvedi V, Ganguly NK, Mittal SA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453644>
149. **NK Cell Subpopulations and Receptor Expression in Recovering SARS-CoV-2 Infection.** Mol. Neurobiol. 2021;1-10Saresella M, Trabattoni D, Marventano I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453271>
150. **Carbon nanomaterials as promising substrates in the design of sensors for SARS-CoV-2 and new emerging viral infections.** Nanomedicine (Lond) 2021; Abbaszadeh S, Nikaeen G, Yousefinejad S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431323>
151. **Mortality in Hemodialysis Patients with COVID-19, the Effect of Paricalcitol or Calcimimetics.** Nutrients 2021; 13Arenas Jimenez MD, González-Parra E, Riera M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444716>

152. **Patterns of negative seroconversion in ongoing surveys of SARS-CoV-2 antibodies among workers in New York's largest healthcare system.** Occup. Environ. Med. 2021; Sembajwe G, Rasul R, Jacobs Y *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433658>
153. **Viral Load Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2 in Hospitalized Individuals With Coronavirus Disease 2019.** Open Forum Infect Dis 2021; 8:ofab153Regan J, Flynn JP, Rosenthal A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430669>
154. **[Relevant immunologic markers in COVID-19].** Pan Afr. Med. J. 2021; 39:40Admou B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422163>
155. **Sewage Systems Surveillance for SARS-CoV-2: Identification of Knowledge Gaps, Emerging Threats, and Future Research Needs.** Pathogens 2021; 10Amereh F, Negahban-Azar M, Isazadeh S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451410>
156. **Recombinant SARS-CoV-2 Nucleocapsid Protein: Expression, Purification, and Its Biochemical Characterization and Utility in Serological Assay Development to Assess Immunological Responses to SARS-CoV-2 Infection.** Pathogens 2021; 10Di D, Dileepan M, Ahmed S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451501>
157. **Predominance of the SARS-CoV-2 Lineage P.1 and Its Sublineage P.1.2 in Patients from the Metropolitan Region of Porto Alegre, Southern Brazil in March 2021.** Pathogens 2021; 10Franceschi VB, Caldana GD, Perin C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451453>
158. **Acute Inflammatory Mediators in Young Adult Patients with COVID-19 in Mexico.** Pathogens 2021; 10Maldonado-Cabrera A, Angulo-Molina A, Haque U *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451520>
159. **Wastewater Based Epidemiology Perspective as a Faster Protocol for Detecting Coronavirus RNA in Human Populations: A Review with Specific Reference to SARS-CoV-2 Virus.** Pathogens 2021; 10Mousazadeh M, Ashoori R, Paital B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451472>
160. **Monitoring the Circulation of SARS-CoV-2 Variants by Genomic Analysis of Wastewater in Marseille, South-East France.** Pathogens 2021; 10Wurtz N, Revol O, Jardot P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451505>
161. **Pathological Features in 100 Deceased Patients With COVID-19 in Correlation With Clinical and Laboratory Data.** Pathol. Oncol. Res. 2021; 27:1609900Mikhaleva LM, Cherniaev AL, Samsonova MV *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421396>
162. **SARS-CoV-2 persistence in immunocompromised children.** Pediatr Blood Cancer 2021:e29277Dolan SA, Mulcahy Levy J, Moss A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453477>
163. **Effect of storage conditions on SARS-CoV-2 RNA quantification in wastewater solids.** PeerJ 2021; 9:e11933Simpson A, Topol A, White BJ *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447628>
164. **Angiotensin-Converting Enzyme 2 (ACE2) in the Context of Respiratory Diseases and Its Importance in Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection.** Pharmaceuticals (Basel) 2021; 14Ambrocio-Ortiz E, Pérez-Rubio G, Del Ángel-Pablo AD *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451902>

165. **A dedicated SARS-CoV-2 testing centre for public service agency personnel: implementation, results, and impact on human resources.** Prehosp. Emerg. Care 2021;1-8 MacDonald RD, MacCallum K, Livingston L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448686>
166. **Predictive value of HbA1c for in-hospital adverse prognosis in COVID-19: A systematic review and meta-analysis.** Prim. Care Diabetes 2021; Zhu Z, Mao Y, Chen G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420899>
167. **Profound Treg perturbations correlate with COVID-19 severity.** Proc Natl Acad Sci U S A 2021; 118 Galván-Peña S, Leon J, Chowdhary K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433692>
168. **Biochemical role of serum ferritin and d-dimer parameters in COVID 19 diagnosis.** Saudi J. Biol. Sci. 2021; Farasani A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429685>
169. **Biomarkers of Coagulation and Inflammation in COVID-19-Associated Ischemic Stroke.** Stroke 2021:Strokeaha121035045 Esenwa C, Cheng NT, Luna J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428931>
170. **Thrombosis in COVID-19 infection: Role of platelet activation-mediated immunity.** Thromb J 2021; 19:59 Fard MB, Fard SB, Ramazi S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425822>
171. **Positive anti-SARS-CoV-2 rapid serological test results among asymptomatic blood donors.** Transfus. Clin. Biol. 2021; Arabkhazaeli A, Maghsudlu M, Mohammadi S, Eshghi P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428567>
172. **KL-6 levels in COVID-19.** Transl Med UniSa 2020; 23:67 Scarpati G, Polverino B, Boffardi M, Piazza O. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447717>
173. **The roles of platelets in COVID-19-associated coagulopathy and vaccine-induced immune thrombotic thrombocytopenia.** Trends Cardiovasc. Med. 2021; Iba T, Levy JH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455073>
174. **An Autochthonous Outbreak of the SARS-CoV-2 P.1 Variant of Concern in Southern Italy, April 2021.** Trop Med Infect Dis 2021; 6 Loconsole D, Sallustio A, Centrone F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449757>
175. **The expression of hACE2 receptor protein and its involvement in SARS-CoV-2 entry, pathogenesis, and its application as potential therapeutic target.** Tumour Biol. 2021; 43:177-196 Al-Zaidan L, Mestiri S, Raza A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420993>
176. **The secret identities of TMPRSS2: Fertility factor, virus trafficker, inflammation moderator, prostate protector and tumor suppressor.** Tumour Biol. 2021; 43:159-176 Epstein RJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420994>
177. **Do SARS-CoV-2 Infection (COVID-19) and the Medications Administered for Its Treatment Impair Testicular Functions?** Urol. Int. 2021;1-5 Gul A, Zengin S, Dundar G, Ozturk M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433173>
178. **An Outbreak of COVID-19 among mRNA-Vaccinated Nursing Home Residents.** Vaccines (Basel) 2021; 9 Faggiano F, Rossi MA, Cena T *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451984>
179. **Risk Factors Associated with the Clinical Outcomes of COVID-19 and Its Variants in the Context of Cytokine Storm and Therapeutics/Vaccine Development Challenges.** Vaccines (Basel) 2021; 9 Hanna J, Tipparaju P, Mulherkar T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452063>
180. **Characterization of a Lineage C.36 SARS-CoV-2 Isolate with Reduced Susceptibility to Neutralization Circulating in Lombardy, Italy.** Viruses 2021;

- 13Castelli M, Baj A, Criscuolo E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452380>
181. **Detection of SARS-CoV-2 Derived Small RNAs and Changes in Circulating Small RNAs Associated with COVID-19.** *Viruses* 2021; 13Grehl C, Schultheiß C, Hoffmann K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452458>
 182. **The Alpha Variant (B.1.1.7) of SARS-CoV-2 in Children: First Experience from 3544 Nucleic Acid Amplification Tests in a Cohort of Children in Germany.** *Viruses* 2021; 13Meyer M, Holfter A, Ruebsteck E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452464>
 183. **Peptide Platform as a Powerful Tool in the Fight against COVID-19.** *Viruses* 2021; 13Murdocca M, Citro G, Romeo I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452531>
 184. **Emergence of E484K Mutation Following Bamlanivimab Monotherapy among High-Risk Patients Infected with the Alpha Variant of SARS-CoV-2.** *Viruses* 2021; 13Peiffer-Smadja N, Bridier-Nahmias A, Ferré VM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452507>
 185. **SARS-CoV-2 Seroprevalence Structure of the Russian Population during the COVID-19 Pandemic.** *Viruses* 2021; 13Popova AY, Smirnov VS, Andreeva EE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452512>
 186. **Clinical and Histopathologic Features of a Feline SARS-CoV-2 Infection Model Are Analogous to Acute COVID-19 in Humans.** *Viruses* 2021; 13Rudd JM, Tamil Selvan M, Cowan S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452415>
 187. **Coronavirus Pseudotypes for All Circulating Human Coronaviruses for Quantification of Cross-Neutralizing Antibody Responses.** *Viruses* 2021; 13Sampson AT, Heeney J, Cantoni D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452443>
 188. **Characterization of the SARS-CoV-2 Host Response in Primary Human Airway Epithelial Cells from Aged Individuals.** *Viruses* 2021; 13Subramaniam B, Larabee JL, Bodas M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452468>
 189. **Serological Screening for Antibodies against SARS-CoV-2 in Dutch Shelter Cats.** *Viruses* 2021; 13van der Leij WJR, Broens EM, Hesselink JW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452497>
 190. **Elicitation of Broadly Neutralizing Antibodies against B.1.1.7, B.1.351, and B.1.617.1 SARS-CoV-2 Variants by Three Prototype Strain-Derived Recombinant Protein Vaccines.** *Viruses* 2021; 13Yang Y, Zang J, Xu S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452287>
 191. **Chemiluminescence Immunoassay Based Serological Immunoassays for Detection of SARS-CoV-2 Neutralizing Antibodies in COVID-19 Convalescent Patients and Vaccinated Population.** *Viruses* 2021; 13Yin Q, Zhang Y, Lian L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452373>
 192. **Blood glucose regulation in context of infection.** *Vitam. Horm.* 2021; 117:253-318Wensveen FM, ≈†estan M, Turk Wensveen T, Polifá B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420584>
 193. **COVID-19 infection and liver injury: Clinical features, biomarkers, potential mechanisms, treatment, and management challenges.** *World J Clin Cases* 2021; 9:6178-6200Sivandzadeh GR, Askari H, Safarpour AR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434987>
 194. **Increase in blood glucose level and incidence of diabetic ketoacidosis in children with type 1 diabetes mellitus in the Daegu-Gyeongbuk area during the**

- coronavirus disease 2019 (COVID-19) pandemic.** Yeungnam Univ J Med 2021; Lee MS, Lee R, Ko CW, Moon JE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433241>
195. **Cytokine storm syndrome in SARS-CoV-2: a review.** Z Naturforsch C J Biosci 2021; Wahid B, Rani N, Idrees M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428364>

Children (74 articles)

1. **Sequences of COVID-19 in a child with WAGR syndrome: A case report.** Ann Med Surg (Lond) 2021; 69:102732Jomaa S, Shubat D, AlTabban M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422264>
2. **Management of anaphylaxis in children undergoing oral food challenges in an adapted COVID-19 field hospital.** Arch. Dis. Child. 2021; Al Saleemi A, Farren L, McCarthy KF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433551>
3. **Impact of clinical and patient pathway changes on paediatric research during the national COVID-19 response.** Arch. Dis. Child. 2021; Dicks P, Schwarze J, Dimitri P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429330>
4. **Covid-19 pandemic impact on maternal and child health services access in Nampula, Mozambique: a mixed methods research.** BMC Health Serv. Res. 2021; 21:860das Neves Martins Pires PH, Macaringue C, Abdirazak A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425807>
5. **Psychological Concerns of Children Undergoing Kidney Transplantation During the Pandemic: Single-centre Experience.** BMJ Paediatr Open 2021; 5:e001174Paessler A, Boyle S, Marks S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423141>
6. **Epidemiologic and clinical characteristics of multisystem inflammatory syndrome in adults: a rapid review.** Can. Commun. Dis. Rep. 2021; 47:305-315Atchessi N, Edjoc R, Striha M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421386>
7. **Longitudinal Relations Between Parental Strain, Parent-Child Relationship Quality, and Child Well-Being During the Unfolding COVID-19 Pandemic.** Child Psychiatry Hum. Dev. 2021:1-17Essler S, Christner N, Paulus M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426893>
8. **Cardiac Manifestations in Children with SARS-COV-2 Infection: 1-Year Pediatric Multicenter Experience.** Children (Basel) 2021; 8Cantarutti N, Battista V, Adorisio R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438608>
9. **Current and Future Implications of COVID-19 among Youth Wheelchair Users: 24-Hour Activity Behavior.** Children (Basel) 2021; 8Connors RT, Bates LC, Lassalle PP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438581>
10. **Play Behaviors in Children during the COVID-19 Pandemic: A Review of the Literature.** Children (Basel) 2021; 8Kourti A, Stavridou A, Panagouli E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438597>
11. **Consequences of COVID-19 Lockdown on Children and Their Pets: Dangerous Increase of Dog Bites among the Paediatric Population.** Children (Basel) 2021; 8Parente G, Gargano T, Di Mitri M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438511>
12. **Effect of the COVID-19 Outbreak on Pediatric Patients' Admissions to the Emergency Department in an Italian Orthopedic Trauma Hub.** Children (Basel)

- 2021; 8Verdoni F, Ricci M, Di Grigoli C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438536>
13. **Public Health Interventions for COVID-19 Reduce Kawasaki Disease in Taiwan.** Children (Basel) 2021; 8Yang YL, Kuo HC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438515>
 14. **Management and Outcome of Coronavirus Disease 2019 (COVID-19) in Pediatric Cancer Patients: A Single Centre Experience from a Developing Country.** Clin. Lymphoma Myeloma Leuk. 2021; Hammad M, Shalaby L, Sidhom I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420893>
 15. **Clinical and cardiac magnetic resonance findings in post-COVID patients referred for suspected myocarditis.** Clin Res Cardiol 2021;1-9Breitbart P, Koch A, Schmidt M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448040>
 16. **A Reflection on Special Challenges and Amending Pedagogy in Clinical Social Work Practice Courses During the COVID-19 Pandemic.** Clin. Soc. Work J. 2021;1-8Wohlsifer DB, Suttnerberg LP, Park J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421151>
 17. **Case Series of Clinical Findings of Multi-System Inflammatory Syndrome in Children in Contrast to Kawasaki Disease.** Cureus 2021; 13:e16446Aung HH, Nulman O, Nadroo I, Chhabra M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422477>
 18. **Impacts of K-12 school reopening on the COVID-19 epidemic in Indiana, USA.** Epidemics 2021; 37:100487Espav/±a G, Cavany S, Oidtmann R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425301>
 19. **Acute encephalitis in pediatric multisystem inflammatory syndrome associated with COVID-19.** Eur. J. Paediatr. Neurol. 2021; 34:84-90Olivotto S, Basso E, Lavatelli R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425479>
 20. **Age-dependent seroprevalence of SARS-CoV-2 antibodies in school-aged children from areas with low and high community transmission.** Eur. J. Pediatr. 2021;1-8Boey L, Roelants M, Merckx J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455523>
 21. **COVID-19 Pandemic and Pediatric Type 1 Diabetes: No Significant Change in Glycemic Control During The Pandemic Lockdown of 2020.** Front. Endocrinol. (Lausanne) 2021; 12:703905Nwosu BU, Al-Halbouni L, Parajuli S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447352>
 22. **Case Report: Mitral Valve Involvement and First-Degree Atrial-Ventricular Block in Two Patients With Multisystem Inflammatory Syndrome in Children.** Front Pediatr 2021; 9:676934Di Filippo P, Raso M, Cacciatore M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422717>
 23. **Acute Kidney Injury in Pediatric Acute SARS-CoV-2 Infection and Multisystem Inflammatory Syndrome in Children (MIS-C): Is There a Difference?** Front Pediatr 2021; 9:692256Grewal MK, Gregory MJ, Jain A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434905>
 24. **Roles of Children and Adolescents in COVID-19 Transmission in the Community: A Retrospective Analysis of Nationwide Data in Japan.** Front Pediatr 2021; 9:705882Imamura T, Saito M, Ko YK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447727>
 25. **Disappearance of Seasonal Respiratory Viruses in Children Under Two Years Old During COVID-19 Pandemic: A Monocentric Retrospective Study in Milan,**

- Italy.** *Front Pediatr* 2021; 9:721005Ippolito G, La Vecchia A, Umbrello G *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422733>
26. **Adolescents' adoption of COVID-19 preventive measures during the first months of the pandemic: what led to early adoption?** *Health Promot Chronic Dis Prev Can* 2021; 41Bacque Dion C, Bélanger R, Leatherdale ST, Haddad S.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34432395>
 27. **The experience of the COVID-19 pandemic for families of infants involved with Child Protection Services for maltreatment concerns.** *Health Soc Care Community* 2021; Fogarty A, Jones A, Evans K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435399>
 28. **The Clinical Characteristics of Fever-Ward Pediatric Patients with a Definite Epidemiological History During the Early COVID-19 Epidemic Period.** *Infect Drug Resist* 2021; 14:3175-3181Song W, Li J, Zou N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429617>
 29. **Seroconversion Following SARS-CoV-2 Infection or Vaccination in Pediatric IBD Patients.** *Inflamm. Bowel Dis.* 2021; Spencer EA, Klang E, Dolinger M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427638>
 30. **Diabetes Related Distress in Children with Type 1 Diabetes before and during the COVID-19 Lockdown in Spring 2020.** *Int J Environ Res Public Health* 2021; 18Mianowska B, Fedorczak A, Michalak A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444274>
 31. **Behavioural Improvements in Children with Autism Spectrum Disorder after Participation in an Adapted Judo Programme Followed by Deleterious Effects during the COVID-19 Lockdown.** *Int J Environ Res Public Health* 2021; 18Morales J, Fukuda DH, Garcia V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444263>
 32. **Objective Behavioral Measures in Children before, during, and after the COVID-19 Lockdown in Israel.** *Int J Environ Res Public Health* 2021; 18Shneor E, Doron R, Levine J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444483>
 33. **The Impact of Face Masks on the Emotional Reading Abilities of Children-A Lesson From a Joint School-University Project.** *Iperception* 2021; 12:20416695211038265Carbon CC, Serrano M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447567>
 34. **Post-traumatic stress disorder (PTSD) in parents of children with type 1 diabetes during Covid-19 pandemic.** *Ital. J. Pediatr.* 2021; 47:176Carducci C, Rapini N, Deodati A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446073>
 35. **Clinical features of pediatric post-acute COVID-19: a descriptive retrospective follow-up study.** *Ital. J. Pediatr.* 2021; 47:177Smane L, Roge I, Pucuka Z, Pavare J.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446085>
 36. **Early Adolescent Substance Use Before and During the COVID-19 Pandemic: A Longitudinal Survey in the ABCD Study Cohort.** *J. Adolesc. Health* 2021; 69:390-397Pelham WE, 3rd, Tapert SF, Gonzalez MR *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452728>
 37. **Predictors of Satisfaction with Autism Treatment Services During COVID-19.** *J. Autism Dev. Disord.* 2021:1-12Ferguson EF, Jimenez-Muñoz M, Feerst H, Vernon TW. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448995>
 38. **Experience of Autistic Children and Their Families During the Pandemic: From Distress to Coping Strategies.** *J. Autism Dev. Disord.* 2021:1-13Jacques C, Saulnier G, Éthier A, Soulières I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448994>

39. **The autoimmune signature of hyperinflammatory multisystem inflammatory syndrome in children.** J. Clin. Invest. 2021; Porritt RA, Binek A, Paschold L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437303>
40. **A Single-Center (Sibiu, Romania), Retrospective Study (March-November 2020) of COVID-19 Clinical and Epidemiological Features in Children.** J Clin Med 2021; 10Totan M, Gligor FG, Duică L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441813>
41. **Risk factors in pediatric hospitalization for influenza A and B during the seven seasons immediately before the COVID-19 era in Japan.** J Infect Chemother 2021; Shinjoh M, Furuichi M, Narabayashi A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454832>
42. **A wide spectrum of neurological manifestations in pediatrics patients with the COVID-19 infection: a case series.** J. Neurovirol. 2021:1-5Krueger MB, Montenegro RC, de Araújo Coimbra PP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448147>
43. **The Trilogy of SARS-CoV-2 in Pediatrics (Part 3): Thrombosis, Anticoagulant, and Antiplatelet Considerations.** J Pediatr Pharmacol Ther 2021; 26:565-576Tran VL, Parsons S, Varela CR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421405>
44. **SARS-CoV-2 Incidence and Transmission in 48 K-12 Virginia Public Schools During Community Surge.** J Pediatric Infect Dis Soc 2021; Rowland LC, Hahn JB, Jelderks TL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437703>
45. **Vitamin D Levels in Asymptomatic Children and Adolescents with Atopy during the COVID-19 Era.** J Pers Med 2021; 11Feketea G, Vlacha V, Tsiros G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442356>
46. **Friend Support and Internalizing Symptoms in Early Adolescence During COVID-19.** J. Res. Adolesc. 2021; 31:692-702Bernasco EL, Nelemans SA, van der Graaff J, Branje S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448295>
47. **The Impact of the COVID-19 Pandemic on Adolescent Emotional, Social, and Academic Adjustment.** J. Res. Adolesc. 2021; 31:486-499Branje S, Morris AS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448306>
48. **COVID-19 Impact on Parental Emotion Socialization and Youth Socioemotional Adjustment in Italy.** J. Res. Adolesc. 2021; 31:657-677Di Giunta L, Lunetti C, Fiasconaro I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448309>
49. **Adolescence Amid a Pandemic: Short- and Long-Term Implications.** J. Res. Adolesc. 2021; 31:820-835Hussong AM, Benner AD, Erdem G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448291>
50. **Peer Connectedness and Pre-Existing Social Reward Processing Predicts U.S. Adolescent Girls' Suicidal Ideation During COVID-19.** J. Res. Adolesc. 2021; 31:703-716Hutchinson EA, Sequeira SL, Silk JS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448297>
51. **The Impact of COVID-19 on Adolescents' Daily Lives: The Role of Parent-Child Relationship Quality.** J. Res. Adolesc. 2021; 31:623-644Janssens JJ, Achterhof R, Lafit G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448305>
52. **Parental Support and Positive Mood Buffer Adolescents' Academic Motivation During the COVID-19 Pandemic.** J. Res. Adolesc. 2021; 31:780-795Klootwijk CLT, Koele IJ, van Hoorn J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448292>
53. **Egyptian and Roma Adolescents' Perspectives on Their Developmental Assets in Albania During the COVID-19 Pandemic.** J. Res. Adolesc. 2021; 31:576-

- 594Miconi D, Dervishi E, Wiium N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448300>
54. **Risk and Protective Factors for Changes in Adolescent Psychosocial Adjustment During COVID-19.** J. Res. Adolesc. 2021; 31:546-559 Romm KF, Park YW, Hughes JL, Gentzler AL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448304>
 55. **Too Lonely to Help: Early Adolescents' Social Connections and Willingness to Help During COVID-19 Lockdown.** J. Res. Adolesc. 2021; 31:764-779 Sabato H, Abraham Y, Kogut T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448302>
 56. **Adolescents' Longitudinal School Engagement and Burnout Before and During COVID-19-The Role of Socio-Emotional Skills.** J. Res. Adolesc. 2021; 31:796-807 Salmela-Aro K, Upadyaya K, Vinni-Laakso J, Hietajärvi L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448301>
 57. **Chinese Adolescents' Coping with COVID-19: Relationships with Emotional Maladjustment and Parental Reactions to Negative Emotions.** J. Res. Adolesc. 2021; 31:645-656 Shi Z, Wang Q. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448290>
 58. **Prepandemic Risk Factors of COVID-19-Related Concerns in Adolescents During the COVID-19 Pandemic.** J. Res. Adolesc. 2021; 31:531-545 van Loon AWG, Creemers HE, Vogelaar S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448296>
 59. **Increased progression of myopia in elementary school children in China - Consequence of the COVID-19 lockdown?** Klin. Monbl. Augenheilkd. 2021; 238:756.
 60. **Consequences of the SARS-CoV-2 Pandemia on the Early Childhood Examinations.** Klin. Padiatr. 2021; 233:94-95 Blankenstein O, Rintisch W, Buchholz T *et al.*
 61. **COVID-19 and Children's Well-Being: A Rapid Research Agenda.** Matern Child Health J 2021; 1-15 Dudovitz RN, Russ S, Berghaus M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427834>
 62. **A Systematic Review of Severe Neurological Manifestations in Pediatric Patients with Coexisting SARS-CoV-2 Infection.** Neurol. Int. 2021; 13:410-427 O'Loughlin L, Alvarez Toledo N, Budrie L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449704>
 63. **COVID-19 Vaccines in Children with Cow's Milk and Food Allergies.** Nutrients 2021; 13 Liotti L, Bianchi A, Bottau P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444795>
 64. **The Effects of COVID-19 on the Eating Habits of Children and Adolescents in Italy: A Pilot Survey Study.** Nutrients 2021; 13 Pujia R, Ferro Y, Maurotti S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444801>
 65. **Presence of SARS-CoV-2 in a Cornea Transplant.** Pathogens 2021; 10 Otmani Idrissi M, Baudoin JP, Chateau AL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451398>
 66. **SARS-CoV-2 persistence in immunocompromised children.** Pediatr Blood Cancer 2021; e29277 Dolan SA, Mulcahy Levy J, Moss A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453477>
 67. **Kidney implications of SARS-CoV2 infection in children.** Pediatr. Nephrol. 2021; 1-15 Bjornstad EC, Seifert ME, Sanderson K, Feig DI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453600>

68. **Model-Informed Repurposing of Medicines for SARS-CoV-2: Extrapolation of Antiviral Activity and Dose Rationale for Paediatric Patients.** Pharmaceutics 2021; 13:Romano F, D'Agate S, Della Pasqua OD.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452260>
69. **Parental Self-Efficacy and Behavioral Problems in Children with Autism During COVID-19: A Moderated Mediation Model of Parenting Stress and Perceived Social Support.** Psychol. Res. Behav. Manag. 2021; 14:1291-1301Chen SD, Yu Y, Li XK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429669>
70. **Psychological distress in primary caregivers of children with cancer during COVID-19 pandemic-A single tertiary care center experience.** Psychooncology 2021; Cheriyaalinkal Parambil B, Goswami S, Roy Moulik N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435720>
71. **Return to Activity After SARS-CoV-2 Infection: Cardiac Clearance for Children and Adolescents.** Sports Health 2021:19417381211039746Chowdhury D, Fremed MA, Dean P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427496>
72. **Effects of lockdown during corona pandemic on children with neurodevelopmental disorders-A questionnaire-based survey.** Turk. J. Pediatr. 2021; 63:648-659Goswami JN, Sondhi V, Simalti AK *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449147>
73. **Diagnostic Imaging in Newborns, Children and Adolescents Infected with Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): Is There a Realistic Alternative to Lung High-Resolution Computed Tomography (HRCT) and Chest X-Rays? A Systematic Review of the Literature.** Ultrasound Med. Biol. 2021; Caroselli C, Blaivas M, Falzetti S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429231>
74. **The Alpha Variant (B.1.1.7) of SARS-CoV-2 in Children: First Experience from 3544 Nucleic Acid Amplification Tests in a Cohort of Children in Germany.** Viruses 2021; 13:Meyer M, Holfter A, Ruebsteck E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452464>

Clinical Features (53 articles)

1. **Letter to the editor: Oral lesions in Covid 19 positive patients.** Am. J. Otolaryngol. 2021:103176Bin Dakhil A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446327>
2. **Appendicitis as a presentation of COVID-19: A case report.** Ann Med Surg (Lond) 2021; 69:102719Malbul K, Katwal S, Maharjan S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422263>
3. **Analysis of the dynamic relationship between immune profiles and the clinical features of patients with COVID-19.** Ann Transl Med 2021; 9:1118Ren P, Zhu C, He Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430559>
4. **Initial experience of the safety and tolerability of the BNT162b2 (Pfizer-Bio-N-Tech) vaccine in extremely vulnerable children aged 12-15 years.** Arch. Dis. Child. 2021; King H, Deshpande S, Woodbridge T *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446440>
5. **Benign Paroxysmal Positional Vertigo (BPPV) in COVID-19.** Audiol Res 2021; 11:418-422Picciotti PM, Passali GC, Sergi B, De Corso E.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449541>

6. **Role of SpO₂/FiO₂ Ratio and ROX Index in Predicting Early Invasive Mechanical Ventilation in COVID-19. A Pragmatic, Retrospective, Multi-Center Study.** Biomedicines 2021; 9Alberdi-Iglesias A, Martín-Rodríguez F, Ortega Rabbione G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440240>
7. **Assessment of COVID-19 progression on day 5 from symptoms onset.** BMC Infect. Dis. 2021; 21:883Gentilotti E, Savoldi A, Compri M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454452>
8. **What symptoms best predict severe distress in an online survey of UK health and social care staff facing COVID-19: development of the two-item Tipping Point Index.** BMJ Open 2021; 11:e047345Brewin CR, Bloomfield MAP, Billings J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452960>
9. **Epidemiologic and clinical characteristics of multisystem inflammatory syndrome in adults: a rapid review.** Can. Commun. Dis. Rep. 2021; 47:305-315Atchessi N, Edjoc R, Striha M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421386>
10. **Chemosensory dysfunctions induced by COVID-19 can persist up to 7 months: A study of over 700 healthcare workers.** Chem. Senses 2021; Bussiv®re N, Mei J, L√©vesque-Boissonneault C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423831>
11. **Clinical and virological features of SARS-CoV-2 variants of concern: a retrospective cohort study comparing B.1.1.7 (Alpha), B.1.315 (Beta), and B.1.617.2 (Delta).** Clin Infect Dis 2021; Ong SWX, Chiew CJ, Ang LW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423834>
12. **Estimating the latent period of coronavirus disease 2019 (COVID-19).** Clin Infect Dis 2021; Xin H, Li Y, Wu P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453527>
13. **Utilizing the Cool-Down Phenomenon to Differentiate Supraventricular Tachycardias in a Patient with COVID-19 Infection.** Clin Pract 2021; 11:520-524Sawalha K, Gondhalekar VB, Klammer N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449565>
14. **Clinical and cardiac magnetic resonance findings in post-COVID patients referred for suspected myocarditis.** Clin Res Cardiol 2021:1-9Breitbart P, Koch A, Schmidt M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448040>
15. **Characteristics and Outcomes of COVID-19 Patients Admitted to Intensive Care Units in a Large Health System in Western Pennsylvania.** Cureus 2021; 13:e16552Nasrullah A, Jayakrishnan T, Wedgeworth P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430159>
16. **Pulse oximeter and respiratory rate: What must be observed in the monitoring of COVID-19 at home.** Deutsches Arzteblatt International 2021; 118:A-726Schlenger RL.
17. **Clinical Characteristics and Outcome of Patients with Suspected COVID-19 in Emergency Department (RESILIENCY Study II).** Diagnostics (Basel) 2021; 11Russo A, Gentilini Cacciola E, Borrazzo C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441304>
18. **Evaluation of Acoustic Reflex Thresholds in COVID-19 Patients With Taste Disorders.** Ear Nose Throat J 2021:1455613211039808Resuli AS, Salviz M, Oktem F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420420>
19. **Using vital signs measurements to identify patients with COVID-19 who require early continuous positive airway pressure.** Emerg. Nurse 2021; Colombo

- C, Albani A, Banfi F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435478>
20. **Headache with SARS-CoV-2 infection: A matter of concern.** Eur. J. Neurol. 2021; Dearing L, Müller F, Sellner J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437746>
 21. **Impairments in Odor Detection and Hedonic Ratings of Unpleasant Smells in Asymptomatic University Students as SARS-Cov-2 Emerged Locally.** Eur. J. Neurosci. 2021; Walsh-Messinger J, Kaouk S, Manis H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424569>
 22. **Impairments in odour detection and hedonic ratings of unpleasant smells in asymptomatic university students as SARS-Cov-2 emerged locally.** Eur. J. Neurosci. 2021; Walsh-Messinger J, Kaouk S, Manis H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424569>
 23. **Association of hypothyroidism with acute COVID-19: a systematic review.** Expert Rev. Endocrinol. Metab. 2021:1-7Malik J, Zaidi SMJ, Waqar AU *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424110>
 24. **Self-reported symptoms in French primary care SARS-CoV-2 patients: association with gender and age group.** Fam. Pract. 2021; 38:i37-i44Sebo P, Maisonneuve H, Lourdaux J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448483>
 25. **COVID-19 patients followed in Portuguese Primary Care: a retrospective cohort study based on the national case series.** Fam. Pract. 2021; Tenreiro P, Ramalho A, Santos P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448861>
 26. **Association of Ocular Surface Diseases With SARS-CoV-2 Infection in Six Districts of China: An Observational Cohort Study.** Front. Immunol. 2021; 12:695428Li S, Qiu Y, Tang L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421905>
 27. **Auditory Disturbances and SARS-CoV-2 Infection: Brain Inflammation or Cochlear Affection? Systematic Review and Discussion of Potential Pathogenesis.** Front. Neurol. 2021; 12:707207De Luca P, Scarpa A, Ralli M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421805>
 28. **Infection Spread, Recovery, and Fatality from Coronavirus in Different Provinces of Saudi Arabia.** Healthcare (Basel) 2021; 9Alharbi MM, Rabbani SI, Asdaq SMB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442068>
 29. **Dermatological Manifestations Associated with COVID-19 Infection.** Indian J. Dermatol. 2021; 66:237-245Panda M, Dash S, Behera B, Sil A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446946>
 30. **Virology and Etiopathogenesis of COVID-19 with Special Reference to Cutaneous Implications.** Indian J. Dermatol. 2021; 66:231-236Sarkar R, Bhargava S, Mendiratta V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446945>
 31. **ENT Symptomology in Active COVID-19 Patients in our Tertiary Care Centre.** Indian J Otolaryngol Head Neck Surg 2021:1-6Gosavi S, Nagarajan S, Shah NJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422621>
 32. **A spark of hope: histopathological and functional recovery after critical COVID-19.** Infection 2021:1-5Boehm A, Luger AK, Schmitz K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435313>
 33. **Possible Use of Phytochemicals for Recovery from COVID-19-Induced Anosmia and Ageusia.** Int J Mol Sci 2021; 22Koyama S, Kondo K, Ueha R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445619>
 34. **Clinical features of pediatric post-acute COVID-19: a descriptive retrospective follow-up study.** Ital. J. Pediatr. 2021; 47:177Smane L, Roge I, Pucuka Z, Pavare J.

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446085>

35. **A Single-Center (Sibiu, Romania), Retrospective Study (March-November 2020) of COVID-19 Clinical and Epidemiological Features in Children.** J Clin Med 2021; 10Totan M, Gligor FG, Duică L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441813>
36. **Joint Estimation Of Generation Time And Incubation Period For Coronavirus Disease (Covid-19).** J Infect Dis 2021; Lau YC, Tsang TK, Kennedy-Shaffer L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423821>
37. **Impact of olfactory dysfunction on quality of life in coronavirus disease 2019 patients: a systematic review.** J. Laryngol. Otol. 2021;1-6Saniasiaya J, Prepageran N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425929>
38. **The roles of nausea and vomiting in COVID-19: did we miss something?** J Microbiol Immunol Infect 2021; 54:541-546Zhang T, Liu D, Tian D, Xia L.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435559>
39. **Epidemiological, Clinical, and Laboratory Predictors of In-Hospital Mortality Among COVID-19 Patients Admitted in a Tertiary COVID Dedicated Hospital, Northern India: A Retrospective Observational Study.** J. Prim. Care Community Health 2021; 12:21501327211041486Ahmad S, Kumar P, Shekhar S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427136>
40. **Metabolic Changes in SARS-CoV-2 Infection: Clinical Data and Molecular Hypothesis to Explain Alterations of Lipid Profile and Thyroid Function Observed in COVID-19 Patients.** Life (Basel) 2021; 11D'Ardes D, Rossi I, Bucciarelli B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440605>
41. **Clinical characteristics and evolution of hematological patients and COVID-19 in Argentina: a report from the Argentine Society of Hematology.** Medicina (B. Aires) 2021; 81:536-545Basquiera AL, García MJ, Martínez Rolón J *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453794>
42. **Clinical characteristics of critically ill patients with COVID-19.** Medicina (B. Aires) 2021; 81:527-535Carboni Bisso I, Huespe I, Lockhart C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453793>
43. **A Comparison of Diagnosed Skin Diseases between the Years with and without COVID-19 Pandemic.** Medicina (Kaunas) 2021; 57Roongpisuthipong W, Yodla P, Klangjareonchai T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440978>
44. **Post-COVID-19 Syndrome: Nine Months after SARS-CoV-2 Infection in a Cohort of 354 Patients: Data from the First Wave of COVID-19 in Nord Franche-Comté Hospital, France.** Microorganisms 2021; 9Zayet S, Zahra H, Royer PY *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34442798>
45. **Presence of SARS-CoV-2 in a Cornea Transplant.** Pathogens 2021; 10Otmami Idrissi M, Baudoin JP, Chateau AL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451398>
46. **Pathological Features in 100 Deceased Patients With COVID-19 in Correlation With Clinical and Laboratory Data.** Pathol. Oncol. Res. 2021; 27:1609900Mikhaleva LM, Cherniaev AL, Samsonova MV *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421396>
47. **Novel effects of acute COVID-19 on cardiac mechanical function: Two case studies.** Physiol Rep 2021; 9:e14998Singh J, Bhagaloo L, Sy E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448551>
48. **Fibromyalgia: a new facet of the post-COVID-19 syndrome spectrum? Results from a web-based survey.** RMD Open 2021; 7Ursini F, Ciaffi J, Mancarella L *et al.*

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34426540>

49. **Newly Diagnosed Diabetes in Patients with COVID-19: Different Types and Short-Term Outcomes.** *Trop Med Infect Dis* 2021; 6Farag AA, Hassanin HM, Soliman HH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449740>
50. **From Asymptomatic to Critical Illness: Decoding Various Clinical Stages of COVID-19.** *Turk J Med Sci* 2021; Çelik I, Öztürk R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445855>
51. **Post-COVID-19 Arthritis and Sacroiliitis: Natural History with Longitudinal Magnetic Resonance Imaging Study in Two Cases and Review of the Literature.** *Viruses* 2021; 13Colatutto D, Sonaglia A, Zabotti A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452422>
52. **Characteristics and Clinical Outcomes of 116,539 Patients Hospitalized with COVID-19-Poland, March-December 2020.** *Viruses* 2021; 13Gujski M, Jankowski M, Rabczenko D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452324>
53. **Increase in blood glucose level and incidence of diabetic ketoacidosis in children with type 1 diabetes mellitus in the Daegu-Gyeongbuk area during the coronavirus disease 2019 (COVID-19) pandemic.** *Yeungnam Univ J Med* 2021; Lee MS, Lee R, Ko CW, Moon JE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433241>

CNS (22 articles)

1. **Guillian--Barre' Syndrome in Patients with SARS-CoV-2: A Multicentric Study from Maharashtra, India.** *Ann. Indian Acad. Neurol.* 2021; 24:339-346Dhamne MC, Benny R, Singh R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446994>
2. **Longitudinal observational study of boxing therapy in Parkinson's disease, including adverse impacts of the COVID-19 lockdown.** *BMC Neurol.* 2021; 21:326Horbinski C, Zumpf KB, McCortney K, Eoannou D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429075>
3. **Comparison of Brain Activation Patterns during Olfactory Stimuli between Recovered COVID-19 Patients and Healthy Controls: A Functional Near-Infrared Spectroscopy (fNIRS) Study.** *Brain Sci* 2021; 11Ho RC, Sharma VK, Tan BYQ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439587>
4. **Psychogenic nonepileptic seizures during the COVID-19 pandemic in New York City - A distinct response from the epilepsy experience.** *Epilepsy Behav.* 2021; 123:108255Rosengard JL, Ferastraoaru V, Donato J, Haut SR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428617>
5. **Acute encephalitis in pediatric multisystem inflammatory syndrome associated with COVID-19.** *Eur. J. Paediatr. Neurol.* 2021; 34:84-90Olivotto S, Basso E, Lavatelli R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425479>
6. **Neuropsychiatric Aspects of COVID-19 - A Narrative Overview.** *Fortschritte der Neurologie Psychiatrie* 2021; Rittmannsberger H, Barth M, Malik P, Yazdi K.
7. **Severe Multiple Sclerosis Relapse After COVID-19 Vaccination: A Case Report.** *Front. Neurol.* 2021; 12:721502Maniscalco GT, Manzo V, Di Battista ME *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447349>
8. **COVID-19 Vaccination Attitudes With Neuromyelitis Optica Spectrum Disorders: Vaccine Hesitancy and Coping Style.** *Front. Neurol.* 2021; 12:717111Xu Y, Cao Y, Ma Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421811>

9. **Neurological effects of elevated levels of angiotensin II in COVID-19 patients.** Hum. Cell 2021;1-2Khezri MR, Ghasemnejad-Berenji M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449020>
10. **Neurological problems in the context of COVID-19 infection in Egypt. A multicenter retrospective analysis.** Interdiscip Neurosurg 2021; 26:101345Azab MA, Azzam AY, Salem AE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426783>
11. **Cranial Nerve Involvement and Dysautonomia in Post-COVID-19 Guillain-Barré Syndrome.** Intern Med 2021; Kakumoto T, Kobayashi S, Yuuki H *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433712>
12. **COVID-19 outcomes of 10,881 patients: retrospective study of neurological symptoms and associated manifestations (Philippine CORONA Study).** J Neural Transm (Vienna) 2021;1-17Espiritu AI, Sy MCC, Anlacan VMM, Jamora RDG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448930>
13. **A wide spectrum of neurological manifestations in pediatrics patients with the COVID-19 infection: a case series.** J. Neurovirol. 2021;1-5Krueger MB, Montenegro RC, de Araújo Coimbra PP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448147>
14. **Covid-19 post-infectious acute transverse myelitis responsive to corticosteroid therapy: report of two clinical cases.** J. Neurovirol. 2021;1-6Vasconcelos TMF, Oliveira DN, Ferreira GM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449062>
15. **What can the neurological manifestations of COVID-19 tell us: a meta-analysis.** J Transl Med 2021; 19:363He Y, Bai X, Zhu T *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425827>
16. **A 50-Year-Old Patient with Guillain-Barré Syndrome after COVID-19: A Case Report.** Medicina (Kaunas) 2021; 57Chmiela T, Rzepka M, Krzystanek E, Gorzkowska A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440980>
17. **Neural connectome prospectively encodes the risk of post-traumatic stress disorder (PTSD) symptom during the COVID-19 pandemic.** Neurobiol Stress 2021; 15:100378Chen Z, Feng P, Becker B *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430677>
18. **A Systematic Review of Severe Neurological Manifestations in Pediatric Patients with Coexisting SARS-CoV-2 Infection.** Neurol. Int. 2021; 13:410-427O'Loughlin L, Alvarez Toledo N, Budrie L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449704>
19. **A Novel Case of Bilateral Diplegia Variant of Guillain-Barré Syndrome Following Janssen COVID-19 Vaccination.** Neurol. Int. 2021; 13:404-409Prasad A, Hurlburt G, Podury S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449715>
20. **Myasthenia gravis and telemedicine: a lesson from COVID-19 pandemic.** Neurol Sci 2021;1-4Ricciardi D, Casagrande S, Iodice F *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34436726>
21. **SARS-CoV-2 Infection and Guillain-Barré Syndrome.** Pathogens 2021; 10Makhluf H, Madany H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451400>
22. **Effects of lockdown during corona pandemic on children with neurodevelopmental disorders-A questionnaire-based survey.** Turk. J. Pediatr. 2021; 63:648-659Goswami JN, Sondhi V, Simalti AK *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449147>

Coagulation (31 articles)

1. **SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study.** *Anaesthesia* 2021.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428858>
2. **Anti-Phospholipid Antibodies and COVID-19 Thrombosis: A Co-Star, Not a Supporting Actor.** *Biomedicines* 2021; 9Gil-Etayo FJ, Garcinuño S, Lalueza A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440103>
3. **COVID-19 Disease, Women's Predominant Non-Heparin Vaccine-Induced Thrombotic Thrombocytopenia and Kounis Syndrome: A Passepartout Cytokine Storm Interplay.** *Biomedicines* 2021; 9Kounis NG, Koniari I, de Gregorio C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440163>
4. **An oral combined contraceptive user with elevated D-dimer post COVID-19: a case report.** *BMC Womens Health* 2021; 21:320Alyousefi NA.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454488>
5. **Coronary artery thrombus resulting in ST-elevation myocardial infarction in a patient with COVID-19.** *BMJ Case Rep.* 2021; 14Green C, Nadir A, Lester W, Dosanjh D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433529>
6. **D-dimers: a most misunderstood test.** *Br. J. Hosp. Med. (Lond.)* 2021; 82:1-5Carter-Brzezinski L, Houston S, Thachil J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431346>
7. **Persistent clotting protein pathology in Long COVID/Post-Acute Sequelae of COVID-19 (PASC) is accompanied by increased levels of antiplasmin.** *Cardiovasc. Diabetol.* 2021; 20:172Pretorius E, Vlok M, Venter C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425843>
8. **Cerebral Venous Sinus Thrombosis as an Unexpected Complication of COVID-19 Pneumonia.** *Cureus* 2021; 13:e16498Abdulgayoom M, Abdelmahmuod E, Elfaki A, Halabiya MA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430113>
9. **Thrombotic Thrombocytopenic Purpura Presentation in an Elderly Gentleman Following COVID Vaccine Circumstances.** *Cureus* 2021; 13:e16619Chamarti K, Dar K, Reddy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447649>
10. **Thromboprophylaxis in Patients with COVID-19: Systematic Review of National and International Clinical Guidance Reports.** *Curr. Vasc. Pharmacol.* 2021; Kyriakoulis KG, Kollias A, Kyriakoulis IG *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34431465>
11. **Cerebral venous sinus thrombosis after COVID-19 vaccination : Neurological and radiological management.** *Der Radiologe* 2021; Walter U, Volmer E, Wittstock M *et al.*
12. **Specific Features of the Coagulopathy Signature in Severe COVID-19 Pneumonia.** *Front Med (Lausanne)* 2021; 8:675191Blot M, de Maistre E, Bourredjem A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422854>
13. **Immune thrombocytopenic purpura secondary to COVID-19 - case report.** *Germs* 2021; 11:319-323Petcu AE, Dumitru IM, Cernat RC *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422703>
14. **COVID-19 Associated Coagulopathy in an Indian Scenario: A Correlation with Disease Severity and Survival Status.** *Indian J. Hematol. Blood Transfus.* 2021;1-11Raychaudhuri S, Pujani M, Menia R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426721>

15. **Central retinal vein occlusion secondary to varicella zoster retinal vasculitis in an immunocompetent individual during the COVID-19 pandemic - A case report.** Indian J Ophthalmol 2021; 69:2532-2535 Sarpangala S, George NM, Kamath YS, Kulkarni C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427261>
16. **Spontaneous Muscle Hematoma in Japanese Patients with Severe COVID-19 Treated with Unfractionated Heparin: Two Case Reports.** Intern Med 2021; Ito Y, Awano N, Uchiyama F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433713>
17. **Pulmonary embolus in patients with COVID-19: an Australian perspective.** Intern. Med. J. 2021; 51:1324-1327 Robinson DH, Wimalaswaran H, McDonald CF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423548>
18. **Hypercoagulopathy in COVID-19, Deep Venous Thrombosis After Extra-Corporeal Membrane Oxygenation Therapy: A Case Report.** J. Med. Cases 2021; 12:226-229 Garg A, Goli H, Yazdanpanah F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429795>
19. **The Trilogy of SARS-CoV-2 in Pediatrics (Part 3): Thrombosis, Anticoagulant, and Antiplatelet Considerations.** J Pediatr Pharmacol Ther 2021; 26:565-576 Tran VL, Parsons S, Varela CR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421405>
20. **Association of Pre-Hospital Antiplatelet Therapy with Survival in Patients Hospitalized with COVID-19: A Propensity Score-Matched Analysis.** J Thromb Haemost 2021; Chow JH, Yin Y, Yamane DP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455688>
21. **Cerebral venous thrombosis after vaccination against COVID-19 in the UK: a multicentre cohort study.** The Lancet 2021; Perry RJ, Tamborska A, Singh B *et al.*
22. **Sars-CoV-2 Virus Infection May Interfere CD34+ Hematopoietic Stem Cells and Megakaryocyte-Erythroid Progenitors Differentiation Contributing to Platelet Defection towards Insurgence of Thrombocytopenia and Thrombophilia.** Microorganisms 2021; 9 Balzanelli MG, Distratis P, Dipalma G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442710>
23. **An Update on COVID-19 Vaccine Induced Thrombotic Thrombocytopenia Syndrome and Some Management Recommendations.** Molecules 2021; 26 Islam A, Bashir MS, Joyce K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443589>
24. **Renal Thrombotic Microangiopathy in Concurrent COVID-19 Vaccination and Infection.** Pathogens 2021; 10 De Fabritiis M, Angelini ML, Fabbri B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451509>
25. **COVID-19: Thromboembolism even in moderate courses.** Phlebologie 2021; 50:248-249 Krome S.
26. **Nebulization with alkaline hypertonic ibuprofen induces a rapid increase in platelets circulating in COVID-19 patients but not in healthy subjects.** Platelets 2021; 1-8 Salva O, Alasino R, Giller C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423724>
27. **Ovarian vein thrombosis as a first manifestation of COVID-19 infection.** Radiol Case Rep 2021; Badrawi N, Abdulghaffar S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422147>
28. **COVID-19 and fertility-at the crossroads of autoimmunity and thrombosis.** Rheumatol. Int. 2021; 1-10 Tariq J, Chatterjee T, Andreoli L, Gupta L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455463>
29. **Thrombosis in COVID-19 infection: Role of platelet activation-mediated immunity.** Thromb J 2021; 19:59 Fard MB, Fard SB, Ramazi S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425822>

30. **The roles of platelets in COVID-19-associated coagulopathy and vaccine-induced immune thrombotic thrombocytopenia.** Trends Cardiovasc. Med. 2021; Iba T, Levy JH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455073>
31. **A Case of Acute Pulmonary Embolus after mRNA SARS-CoV-2 Immunization.** Vaccines (Basel) 2021; 9Wiest NE, Johns GS, Edwards E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452028>

Complications (86 articles)

1. **Seek and Ye Shall Find: COVID-19 and Bacterial Superinfection.** Am J Respir Crit Care Med 2021; Kitsios GD, Morris A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433007>
2. **Rare superinfection in a COVID-19 patient—A chronology.** Anaesthesist 2021; Gamon E, Tammerna D, Wattenberg M, Augenstein T.
3. **Sequences of COVID-19 in a child with WAGR syndrome: A case report.** Ann Med Surg (Lond) 2021; 69:102732Jomaa S, Shubat D, AlTabban M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422264>
4. **Jejunal closed-loop obstruction without prior abdominal surgery during COVID-19 ICU admittance: A case report.** Ann Med Surg (Lond) 2021; 69:102729Meekel JP, Timmerman MC, Hoeksema M, Boer FCD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426766>
5. **Severe COVID-19 has a distinct phenotype from bacterial sepsis: a retrospective cohort study in deceased patients.** Ann Transl Med 2021; 9:1054Yu J, Wang Y, Lin S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422966>
6. **Trends of Multidrug-Resistant Pathogens, Difficult to Treat Bloodstream Infections, and Antimicrobial Consumption at a Tertiary Care Center in Lebanon from 2015-2020: COVID-19 Aftermath.** Antibiotics (Basel) 2021; 10Chamieh A, Zgheib R, El-Sawalhi S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439065>
7. **Antibiotic Use and Fatal Outcomes among Critically Ill Patients with COVID-19 in Tacna, Peru.** Antibiotics (Basel) 2021; 10Copaja-Corzo C, Hueda-Zavaleta M, Benites-Zapata VA, Rodriguez-Morales AJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439009>
8. **Paradigm Shift in Antimicrobial Resistance Pattern of Bacterial Isolates during the COVID-19 Pandemic.** Antibiotics (Basel) 2021; 10Saini V, Jain C, Singh NP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439004>
9. **Acceleration of Biological Aging and Underestimation of Subjective Age Are Risk Factors for Severe COVID-19.** Biomedicines 2021; 9Berezina TN, Rybtsov S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440116>
10. **COVID-19 Disease, Women's Predominant Non-Heparin Vaccine-Induced Thrombotic Thrombocytopenia and Kounis Syndrome: A Passepartout Cytokine Storm Interplay.** Biomedicines 2021; 9Kounis NG, Koniari I, de Gregorio C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440163>
11. **Long COVID-19 Syndrome: A Comprehensive Review of Its Effect on Various Organ Systems and Recommendation on Rehabilitation Plans.** Biomedicines 2021; 9Yan Z, Yang M, Lai CL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440170>

12. **The COVID-19 pandemic: the effect on airway Management in non-COVID emergency patients.** BMC Emerg. Med. 2021; 21:97Ruangsomboon O, Boonmee P, Nimmannit A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454416>
13. **Helmet Non-Invasive Ventilation for COVID-19 Patients (Helmet-COVID): study protocol for a multicentre randomised controlled trial.** BMJ Open 2021; 11:e052169Arabi YM, Tlayjeh H, Aldekhyl S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446500>
14. **What symptoms best predict severe distress in an online survey of UK health and social care staff facing COVID-19: development of the two-item Tipping Point Index.** BMJ Open 2021; 11:e047345Brewin CR, Bloomfield MAP, Billings J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452960>
15. **Novel 3D printable powered air purifying respirator for emergency use during PPE shortage of the COVID-19 pandemic: a study protocol and device safety analysis.** BMJ Open 2021; 11:e049605Nagel J, Gilbert C, Duchesne J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446492>
16. **Acute SARS-CoV-2 infection is associated with an increased abundance of bacterial pathogens, including *Pseudomonas aeruginosa* in the nose.** Cell Rep. 2021; 36:109637Rhoades NS, Pinski AN, Monsibais AN *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433082>
17. **Tension pneumomediastinum and diffuse subcutaneous emphysema with severe acute respiratory syndrome coronavirus 2 infection requiring operative management for impending airway collapse: A case report.** Clin Case Rep 2021; 9:e04656Lin KP, Stefaniak C, Bunch CM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430018>
18. **Urgent endovascular aortic dissection repair in a Marfan patient during COVID-19 pandemic.** Clin Case Rep 2021; 9:e04634Yuan X, Castro Verdes M, Capoccia M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430006>
19. **COVID-19-associated opportunistic infections: a snapshot on the current reports.** Clin. Exp. Med. 2021;1-20Abdoli A, Falahi S, Kenarkoohi A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424451>
20. **Risk factors and outcome of pulmonary aspergillosis in critically ill coronavirus disease 2019 patients- a multinational observational study by the European Confederation of Medical Mycology.** Clin Microbiol Infect 2021; Prattes J, Wauters J, Giacobbe DR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454093>
21. **Rhino-Orbito-Cerebral-Mucormycosis During the COVID-19 Second Wave in 2021 - A Preliminary Report from a Single Hospital.** Clin. Ophthalmol. 2021; 15:3505-3514Arora R, Goel R, Khanam S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429582>
22. **Cerebral Venous Sinus Thrombosis as an Unexpected Complication of COVID-19 Pneumonia.** Cureus 2021; 13:e16498Abdulgayoom M, Abdelmahmuod E, Elfaki A, Halabiya MA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430113>
23. **Case Series of Clinical Findings of Multi-System Inflammatory Syndrome in Children in Contrast to Kawasaki Disease.** Cureus 2021; 13:e16446Aung HH, Nulman O, Nadroo I, Chhabra M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422477>
24. **A Case of Fatal Catatonia in a COVID-19 Patient.** Cureus 2021; 13:e16529Kwon HJ, Patel KH, Ramirez M, McFarlane IM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430139>

25. **Characteristics and Outcomes of COVID-19 Patients Admitted to Intensive Care Units in a Large Health System in Western Pennsylvania.** Cureus 2021; 13:e16552 Nasrullah A, Jayakrishnan T, Wedgeworth P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430159>
26. **COVID-19 and exacerbation of dermatological diseases: A review of the available literature.** Dermatol Ther 2021; Aram K, Patil A, Goldust M, Rajabi F.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453380>
27. **Using vital signs measurements to identify patients with COVID-19 who require early continuous positive airway pressure.** Emerg. Nurse 2021; Colombo C, Albani A, Banfi F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435478>
28. **Knee osteonecrosis after COVID-19.** Fam. Pract. 2021; 38:i45-i47 Angulo-Ardoy M, Ureña-Aguilera Á. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448481>
29. **Case Report: Prolonged VV-ECMO (111 Days) Support in a Patient With Severe COVID-19.** Front Med (Lausanne) 2021; 8:681548 Xu Z, Xu Y, Liu D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422856>
30. **Intussusception in an Infant With SARS-CoV-2 Infection: A Case Report and a Review of the Literature.** Front Pediatr 2021; 9:693348 Castellazzi ML, Corsello A, Cerrato L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422721>
31. **Infection Spread, Recovery, and Fatality from Coronavirus in Different Provinces of Saudi Arabia.** Healthcare (Basel) 2021; 9 Alharbi MM, Rabbani SI, Asdaq SMB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442068>
32. **Deceleration capacity is associated with acute respiratory distress syndrome in COVID-19.** Heart Lung 2021; 50:914-918 Mizera L, Rath D, Schoellmann A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428736>
33. **Exudative retinal detachment in COVID-19 - associated rhino-orbital mucormycosis - A rare clinical finding.** Indian J Ophthalmol 2021; 69:2535-2537 Sarkar S, Gokhale T, Kaliaperumal S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427262>
34. **Central retinal vein occlusion secondary to varicella zoster retinal vasculitis in an immunocompetent individual during the COVID-19 pandemic - A case report.** Indian J Ophthalmol 2021; 69:2532-2535 Sarpagala S, George NM, Kamath YS, Kulkarni C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427261>
35. **A look into the relationship between outdated Covid-19 treatment protocols and the overwhelming rise of Mucormycosis in Covid-19 patients in India.** Infect Control Hosp Epidemiol 2021; 1-5 Jamal SA, Rayapati A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446122>
36. **COVID-19 disrupts the blood-testis barrier through the induction of inflammatory cytokines and disruption of junctional proteins.** Inflamm Res 2021; 1-11 Peirouvi T, Aliaghaei A, Eslami Farsani B *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34436630>
37. **Risk Factors Associated with the Mucormycosis Epidemic During the COVID-19 Pandemic.** Int J Infect Dis 2021; Bhanuprasad K, Manesh A, Devasagayam E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450284>
38. **Multisystem Inflammatory Syndrome (MIS): a multicentre retrospective review of adults and adolescents in South Africa.** Int J Infect Dis 2021; van Heerden J, Nel J, Moodley P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428544>
39. **Adaptive Immunity and the Risk of Autoreactivity in COVID-19.** Int J Mol Sci 2021; 22 Moody R, Wilson K, Flanagan KL *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445670>

40. **Spontaneous Muscle Hematoma in Japanese Patients with Severe COVID-19 Treated with Unfractionated Heparin: Two Case Reports.** Intern Med 2021; Ito Y, Awano N, Uchiyama F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433713>
41. **Late-onset COVID-19-induced Hemophagocytic Syndrome.** Intern Med 2021; Kanematsu E, Nunokawa T, Chinen N, Komatsu A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433715>
42. **The autoimmune signature of hyperinflammatory multisystem inflammatory syndrome in children.** J. Clin. Invest. 2021; Porritt RA, Binek A, Paschold L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437303>
43. **High-Flow Nasal Cannula Oxygenation in Older Patients with SARS-CoV-2-Related Acute Respiratory Failure.** J Clin Med 2021; 10Hacquin A, Perret M, Manckoundia P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441811>
44. **The Effects of Previous Thyroid Disease on the Susceptibility to, Morbidity of, and Mortality Due to COVID-19: A Nationwide Cohort Study in South Korea.** J Clin Med 2021; 10Kim SY, Yoo DM, Min CY, Choi HG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441818>
45. **A catalogue of tools and variables from crisis and routine care to support decision-making about allocation of intensive care beds and ventilator treatment during pandemics: Scoping review.** J Crit Care 2021; 66:33-43Cardona M, Dobler CC, Koreshe E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438132>
46. **Testing Practices for Fungal Respiratory Infections and SARS-CoV-2 among Infectious Disease Specialists, United States.** J Fungi (Basel) 2021; 7Benedict K, Williams S, Beekmann SE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436144>
47. **Fungal Taxa Responsible for Mucormycosis/"Black Fungus" among COVID-19 Patients in India.** J Fungi (Basel) 2021; 7Divakar PK. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436180>
48. **Connecting the Dots: Interplay of Pathogenic Mechanisms between COVID-19 Disease and Mucormycosis.** J Fungi (Basel) 2021; 7Prakash H, Skiada A, Paul RA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436155>
49. **Clustering and multiple-spreading events of nosocomial severe acute respiratory syndrome coronavirus 2 infection.** J Hosp Infect 2021; Jung J, Lim SY, Lee J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453983>
50. **Critically ill COVID-19 patients exhibit hyperactive cytokine responses associated with effector exhausted senescent T cells in acute infection.** J Infect Dis 2021; Arcanjo A, Pinto KG, Logullo J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427670>
51. **Bacterial and fungal ventilator associated pneumonia in critically ill COVID-19 patients during the second wave.** J Infect Public Health 2021; Meawed TE, Ahmed SM, Mowafy SMS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420902>
52. **Combined Percutaneous Tracheostomy and Endoscopic Gastrostomy Tubes in COVID-19: A Prospective Series of Patient Outcomes.** J. Intensive Care Med. 2021;8850666211038875Oberg CL, Keyes C, Panchabhai TS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424096>
53. **Epstein-Barr Virus Coinfection in COVID-19.** J Investig Med High Impact Case Rep 2021; 9:23247096211040626Nadeem A, Suresh K, Awais H, Waseem S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428954>

54. **Frequent Occurrence of SARS-CoV-2 Transmission among Non-close Contacts Exposed to COVID-19 Patients.** *J Korean Med Sci* 2021; 36:e233Jung J, Lee J, Kim E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427062>
55. **Diagnosing Disseminated Nocardiosis in a Patient With COVID-19 Pneumonia.** *J. Med. Cases* 2021; 12:319-324Atemnkeng F, Ducey J, Khalil A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429798>
56. **High Thermal Amplitude Red Blood Cell Agglutinating Cold Type Autoantibodies in a Case of Severe Acute Respiratory Syndrome Coronavirus 2 Pneumonia and Multiorgan Failure.** *J. Med. Cases* 2021; 12:16-17Hassanein H, Hajdenberg J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434421>
57. **Ogilvie Syndrome and COVID-19 Infection.** *J. Med. Cases* 2021; 12:328-331Wang J, Marusca G, Tariq T, Mohamad B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429799>
58. **Pan-drug resistant *Providencia rettgeri* contributing to a fatal case of COVID-19.** *J. Med. Microbiol.* 2021; 70Mc Gann P, Geringer MR, Hall LR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448689>
59. **Autoimmune complications of COVID-19.** *J Med Virol* 2021; Yazdanpanah N, Rezaei N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427929>
60. **Invasive fungal infections among critically ill adult COVID-19 patients: First experiences from the national centre in Hungary.** *J. Mycol. Med.* 2021; 31:101198Szabo BG, Lakatos B, Bobek I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428666>
61. **COVID-19-associated atypical hemolytic uremic syndrome and use of Eculizumab therapy.** *J Nephrol* 2021:1-5Gill J, Hebert CA, Colbert GB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427905>
62. **Tracheostomy for COVID-19 respiratory failure: timing, ventilatory characteristics, and outcomes.** *J Thorac Dis* 2021; 13:4137-4145Farlow JL, Park PK, Sjoding MW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422343>
63. **In-Hospital Mortality of COVID-19 Patients Treated with High-Flow Nasal Oxygen: Evaluation of Biomarkers and Development of the Novel Risk Score Model CROW-65.** *Life (Basel)* 2021; 11Kljakovic Gaspic T, Pavicic Ivelja M, Kumric M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440479>
64. **[Late rhabdomyolysis secondary to SARS-CoV-2 infection].** *Medicina (B. Aires)* 2021; 81:656-658Vasquez-Garagatti R, Díaz-Pardavé C, Beas R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453812>
65. **Erythema Multiforme and COVID-19: What Do We Know?** *Medicina (Kaunas)* 2021; 57Bennardo L, Nisticò SP, Dastoli S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441034>
66. **Sars-CoV-2 Virus Infection May Interfere CD34+ Hematopoietic Stem Cells and Megakaryocyte-Erythroid Progenitors Differentiation Contributing to Platelet Defection towards Insurgence of Thrombocytopenia and Thrombophilia.** *Microorganisms* 2021; 9Balzanelli MG, Distratis P, Dipalma G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442710>
67. **Multi-Drug Resistance Bacterial Infections in Critically Ill Patients Admitted with COVID-19.** *Microorganisms* 2021; 9Pasero D, Cossu AP, Terragni P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442852>
68. **A Systematic Review of Severe Neurological Manifestations in Pediatric Patients with Coexisting SARS-CoV-2 Infection.** *Neurol. Int.* 2021; 13:410-

- 427O'Loughlin L, Alvarez Toledo N, Budrie L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449704>
69. **Oxygen Sparing Effect of Bacteriotherapy in COVID-19.** Nutrients 2021; 13Ceccarelli G, Marazzato M, Celani L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445055>
 70. **Clinical Features and Outcomes of Coronavirus Disease 2019 Among People With Human Immunodeficiency Virus in the United States: A Multicenter Study From a Large Global Health Research Network (TriNetX).** Open Forum Infect Dis 2021; 8:ofab272Yendewa GA, Perez JA, Schlick K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435074>
 71. **Bi-valvular endocarditis occurring 2 months after COVID-19 infection.** Pan Afr. Med. J. 2021; 39:37Kraiem S, Amor HH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422160>
 72. **Acinetobacter baumannii Infections in Times of COVID-19 Pandemic.** Pathogens 2021; 10Rangel K, Chagas TPG, De-Simone SG.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451470>
 73. **Managing ANCA-associated vasculitis during the COVID-19 pandemic: results from an online survey.** Rheumatol. Int. 2021:1-7Kopp CR, Naidu G, Misra DP *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427760>
 74. **Ludwig's angina in a COVID positive patient-An atypical case report.** Spec. Care Dentist. 2021; Poorna TA, J RL, Ek J, John B.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448220>
 75. **An uncommon cold of the retina.** Surv. Ophthalmol. 2021; De Salvo G, Meduri A, Vaz-Pereira S, Spencer D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433073>
 76. **COVID-19-associated mucormycosis: Case report and systematic review.** Travel Med Infect Dis 2021; 44:102148Dilek A, Ozaras R, Ozkaya S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454090>
 77. **COVID-19 and mucormycosis in Latin America - An emerging concern.** Travel Med Infect Dis 2021; 44:102156Rodriguez-Morales AJ, Mamani-García CS, Nuñez-Lupaca JN *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454089>
 78. **Ebola and COVID-19 in Democratic Republic of Congo: grappling with two plagues at once.** Trop Med Health 2021; 49:67Khan FMA, Hasan MM, Kazmi Z *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429168>
 79. **Double Trouble: Dengue Followed by COVID-19 Infection Acquired in Two Different Regions: A Doctor's Case Report and Spatial Distribution of Cases in Presidente Prudente, São Paulo, Brazil.** Trop Med Infect Dis 2021; 6Pereira SM, do Nascimento CT, Ferro RS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449753>
 80. **From Asymptomatic to Critical Illness: Decoding Various Clinical Stages of COVID-19.** Turk J Med Sci 2021; Çelik I, Öztürk R.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445855>
 81. **Do SARS-CoV-2 Infection (COVID-19) and the Medications Administered for Its Treatment Impair Testicular Functions?** Urol. Int. 2021:1-5Gul A, Zengin S, Dundar G, Ozturk M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433173>
 82. **Propylthiouracil-Induced Antineutrophil Cytoplasmic Antibody-Associated Vasculitis after COVID-19 Vaccination.** Vaccines (Basel) 2021; 9Okuda S, Hirooka Y, Sugiyama M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451967>
 83. **COVID-19 Associated Rhino-Orbital Mucormycosis Complicated by Gangrenous and Bone Necrosis-A Case Report from Honduras.** Vaccines

- (Base) 2021; 9Palou EY, Ramos MA, Cherenfant E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451951>
84. **Spleen infarction a delayed complication of COVID-19 infection.** Vis J Emerg Med 2021; 25:101120Aarabi S, Karimialavijeh E.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423143>
85. **COVID-19 infection and liver injury: Clinical features, biomarkers, potential mechanisms, treatment, and management challenges.** World J Clin Cases 2021; 9:6178-6200Sivandzadeh GR, Askari H, Safarpour AR *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34434987>
86. **Cytokine storm syndrome in SARS-CoV-2: a review.** Z Naturforsch C J Biosci 2021; Wahid B, Rani N, Idrees M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428364>

Cured – Recovered (27 articles)

1. **A case of COVID-19 re-infection in Libya.** Afr J Thorac Crit Care Med 2021; 27Alzedam A, Bengblya AM, Zeglam MJ *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430866>
2. **Persistent Endothelial Dysfunction in Post-Acute COVID-19 Syndrome: A Case-Control Study.** Biomedicines 2021; 9Ambrosino P, Calcaterra I, Molino A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440161>
3. **Long-Term Impact of COVID-19: A Systematic Review of the Literature and Meta-Analysis.** Biomedicines 2021; 9Sanchez-Ramirez DC, Normand K, Zhaoyun Y, Torres-Castro R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440104>
4. **Long COVID-19 Syndrome: A Comprehensive Review of Its Effect on Various Organ Systems and Recommendation on Rehabilitation Plans.** Biomedicines 2021; 9Yan Z, Yang M, Lai CL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440170>
5. **Long COVID and the mental and physical health of children and young people: national matched cohort study protocol (the CLoCK study).** BMJ Open 2021; 11:e052838Stephenson T, Shafran R, De Stavola B *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446502>
6. **Persistent clotting protein pathology in Long COVID/Post-Acute Sequelae of COVID-19 (PASC) is accompanied by increased levels of antiplasmin.** Cardiovasc. Diabetol. 2021; 20:172Pretorius E, Vlok M, Venter C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425843>
7. **COVID-19 reinfection or reactivation in a renal transplant patient.** Clin Case Rep 2021; 9:e04672Abolghasemi S, Zolfaghari F, Naeimipoor M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430026>
8. **SARS-CoV-2 Reinfection: A Case Series from a 12-Month Longitudinal Occupational Cohort.** Clin Infect Dis 2021; Mack CD, Tai C, Sikka R *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453431>
9. **Utilizing the Cool-Down Phenomenon to Differentiate Supraventricular Tachycardias in a Patient with COVID-19 Infection.** Clin Pract 2021; 11:520-524Sawalha K, Gondhalekar VB, Klammer N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449565>
10. **Prevalence, Pattern and Functional Outcome of Post COVID-19 Syndrome in Older Adults.** Cureus 2021; 13:e17189P S, Madhavan S, Pandurangan V.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422503>

11. **Excessive eating and weight gain: A rare post-acute COVID-19 syndrome.** *Diabetes Metab Syndr* 2021; 15:102252 Kaggwa MM, Favina A, Najjuka SM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438358>
12. **Evolution of antibody responses up to 13 months after SARS-CoV-2 infection and risk of reinfection.** *EBioMedicine* 2021; 71:103561 Gallais F, Gantner P, Bruel T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455390>
13. **Association of Ocular Surface Diseases With SARS-CoV-2 Infection in Six Districts of China: An Observational Cohort Study.** *Front. Immunol.* 2021; 12:695428 Li S, Qiu Y, Tang L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421905>
14. **A spark of hope: histopathological and functional recovery after critical COVID-19.** *Infection* 2021; 1-5 Boehm A, Luger AK, Schmitz K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435313>
15. **Validation and Cultural Adaptation of Explanatory Model Interview Catalogue (EMIC) in Assessing Stigma among Recovered Patients with COVID-19 in Saudi Arabia.** *Int J Environ Res Public Health* 2021; 18:Al-Zamel LA, Al-Thunayan SF, Al-Rasheed AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444017>
16. **A Rapid Review on the Influence of COVID-19 Lockdown and Quarantine Measures on Modifiable Cardiovascular Risk Factors in the General Population.** *Int J Environ Res Public Health* 2021; 18:Freiberg A, Schubert M, Romero Starke K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444316>
17. **Post-COVID-19 Rehabilitation: Perception and Experience of Austrian Physiotherapists and Physiotherapy Students.** *Int J Environ Res Public Health* 2021; 18:Scheiber B, Spiegl C, Wiederin C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444477>
18. **Clinical features of pediatric post-acute COVID-19: a descriptive retrospective follow-up study.** *Ital. J. Pediatr.* 2021; 47:177 Smane L, Roge I, Pucuka Z, Pavare J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446085>
19. **Coronavirus disease (COVID-19) associated delayed-onset fulminant myocarditis in patient with a history of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection.** *J Infect Chemother* 2021; Ishikura H, Maruyama J, Hoshino K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446351>
20. **Eight Weeks Unsupervised Pulmonary Rehabilitation in Previously Hospitalized of SARS-CoV-2 Infection.** *J Pers Med* 2021; 11:Stavrou VT, Tourlakopoulos KN, Vavougios GD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442450>
21. **[Cardiac magnetic resonance and follow up of professional soccer players recovering from COVID-19].** *Medicina (B. Aires)* 2021; 81:491-495 Peidro R, Argemi R, Batista J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453790>
22. **Post-COVID-19 Syndrome: Nine Months after SARS-CoV-2 Infection in a Cohort of 354 Patients: Data from the First Wave of COVID-19 in Nord Franche-Comté Hospital, France.** *Microorganisms* 2021; 9:Zayet S, Zahra H, Royer PY *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442798>
23. **Small airway function in Finnish COVID-19 survivors.** *Respir Res* 2021; 22:237 Lindahl A, Reijula J, Malmberg LP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446020>
24. **Fibromyalgia: a new facet of the post-COVID-19 syndrome spectrum? Results from a web-based survey.** *RMD Open* 2021; 7:Ursini F, Ciaffi J, Mancarella L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426540>

25. **Circular economy approach in solid waste management system to achieve UN-SDGs: Solutions for post-COVID recovery.** Sci Total Environ 2021; 800:149605 Sharma HB, Vanapalli KR, Samal B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426367>
26. **Long Covid - The illness narratives.** Soc. Sci. Med. 2021; 286:114326 Rushforth A, Ladds E, Wieringa S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425522>
27. **Post-COVID-19 Arthritis and Sacroiliitis: Natural History with Longitudinal Magnetic Resonance Imaging Study in Two Cases and Review of the Literature.** Viruses 2021; 13 Colatutto D, Sonaglia A, Zabotti A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452422>

Cardiovascular disease (50 articles)

1. **Is the revascularisation strategy and outcome different in patients with acute coronary syndrome in COVID-19 pandemic era: a tertiary centre experience.** Acta Cardiol. 2021;1-9 Aktürk F, Yılmaz C, Karabulut D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427169>
2. **SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study.** Anaesthesia 2021. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428858>
3. **Persistent Endothelial Dysfunction in Post-Acute COVID-19 Syndrome: A Case-Control Study.** Biomedicines 2021; 9 Ambrosino P, Calcaterra I, Molino A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440161>
4. **Well-Known and Novel Players in Endothelial Dysfunction: Updates on a Notch(ed) Landscape.** Biomedicines 2021; 9 Fortini F, Viecei Dalla Sega F, Marracino L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440201>
5. **Multiple-Organ Complement Deposition on Vascular Endothelium in COVID-19 Patients.** Biomedicines 2021; 9 Macor P, Durigutto P, Mangogna A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440207>
6. **Haemophilus parainfluenzae endocarditis presenting with symptoms of COVID-19.** BMJ Case Rep. 2021; 14 Finch LC, Gerdzhikov S, Buttery R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433540>
7. **Coronary artery thrombus resulting in ST-elevation myocardial infarction in a patient with COVID-19.** BMJ Case Rep. 2021; 14 Green C, Nadir A, Lester W, Dosanjh D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433529>
8. **Temporal association between the COVID-19 Ad26.COV2.S vaccine and acute myocarditis: A case report and literature review.** Cardiovasc. Revasc. Med. 2021; Sulemankhil I, Abdelrahman M, Negi SI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420869>
9. **Emergency cardiac imaging for coronavirus disease 2019 (COVID-19) in practice: a case of takotsubo stress cardiomyopathy.** Cardiovasc. Ultrasound 2021; 19:31 Belli O, Ardissino M, Bottiroli M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429107>
10. **Cardiac Manifestations in Children with SARS-COV-2 Infection: 1-Year Pediatric Multicenter Experience.** Children (Basel) 2021; 8 Cantarutti N, Battista V, Adorisio R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438608>
11. **Public Health Interventions for COVID-19 Reduce Kawasaki Disease in Taiwan.** Children (Basel) 2021; 8 Yang YL, Kuo HC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438515>

12. **Insights from a murine model of COVID-19 mRNA vaccination-induced myopericarditis: Could accidental intravenous vaccine injection induce myopericarditis?** Clin Infect Dis 2021; Knowlton KU.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453510>
13. **Clinical and cardiac magnetic resonance findings in post-COVID patients referred for suspected myocarditis.** Clin Res Cardiol 2021;1-9Breitbart P, Koch A, Schmidt M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448040>
14. **Cerebral Venous Sinus Thrombosis as an Unexpected Complication of COVID-19 Pneumonia.** Cureus 2021; 13:e16498Abdulgayoom M, Abdelmahmuod E, Elfaki A, Halabiya MA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430113>
15. **COVID-19 Myocarditis: Rationale for Early Diagnosis and Intervention.** Cureus 2021; 13:e16494Fatmi SS, Basso R, Liaqat A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430109>
16. **Acute Pericarditis Due to SARS-COV-2 in a Kidney Transplant Recipient.** Cureus 2021; 13:e16547Gill H, Beinhoff P, Lamberg M, Mehta T.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430154>
17. **Post-Infarction Ventricular Septal Rupture Complicated by Cardiogenic Shock Requiring Mechanical Circulatory Support as a Bridge to Definitive Therapy During the COVID-19 Pandemic.** Cureus 2021; 13:e16421Khorolsky C, Pettijohn D, Yager N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422462>
18. **Thromboprophylaxis in Patients with COVID-19: Systematic Review of National and International Clinical Guidance Reports.** Curr. Vasc. Pharmacol. 2021; Kyriakoulis KG, Kollias A, Kyriakoulis IG *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34431465>
19. **Focal Myocarditis after Mild COVID-19 Infection in Athletes.** Diagnostics (Basel) 2021; 11Nedeljkovic IP, Giga V, Ostojic M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441453>
20. **Risk prediction in patients with COVID-19 based on haemodynamic assessment of left and right ventricular function.** Eur. Heart J. Cardiovasc. Imaging 2021; Taieb P, Szekely Y, Lupu L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453517>
21. **COVID-19 and Heart Failure: From Epidemiology During the Pandemic to Myocardial Injury, Myocarditis, and Heart Failure Sequelae.** Front Cardiovasc Med 2021; 8:713560Italia L, Tomasoni D, Bisegna S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447795>
22. **Clinical Implications of IL-32, IL-34 and IL-37 in Atherosclerosis: Speculative Role in Cardiovascular Manifestations of COVID-19.** Front Cardiovasc Med 2021; 8:630767Law CC, Puranik R, Fan J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422917>
23. **Case Report: Dilated Cardiomyopathy in a Newborn, a Potential Association With SARS-COV-2.** Front Pediatr 2021; 9:674300Azeka E, Arshad A, Martins C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422715>
24. **Case Report: Mitral Valve Involvement and First-Degree Atrial-Ventricular Block in Two Patients With Multisystem Inflammatory Syndrome in Children.** Front Pediatr 2021; 9:676934Di Filippo P, Raso M, Cacciatore M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422717>
25. **Immune thrombocytopenic purpura secondary to COVID-19 - case report.** Germes 2021; 11:319-323Petcu AE, Dumitru IM, Cernat RC *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422703>

26. **Acute Coronary Syndrome in the COVID-19 Pandemic: Reduced Cases and Increased Ischaemic Time.** Heart Lung Circ. 2021; Sutherland N, Dayawansa NH, Filipopoulos B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452843>
27. **Quantifying arrhythmic long QT effects of hydroxychloroquine and azithromycin with whole-heart optical mapping and simulations.** Heart Rhythm Q2 2021; 2:394-404 Uzelac I, Kaboudian A, Iravanian S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430945>
28. **Central retinal vein occlusion secondary to varicella zoster retinal vasculitis in an immunocompetent individual during the COVID-19 pandemic - A case report.** Indian J Ophthalmol 2021; 69:2532-2535 Sarpangala S, George NM, Kamath YS, Kulkarni C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427261>
29. **Clinical Characteristics and Outcomes of Hypertensive Patients Infected with COVID-19: A Retrospective Study.** Int. J. Gen. Med. 2021; 14:4619-4628 Chen L, Chen J, Wu Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429644>
30. **Pulmonary embolus in patients with COVID-19: an Australian perspective.** Intern. Med. J. 2021; 51:1324-1327 Robinson DH, Wimalaswaran H, McDonald CF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423548>
31. **Robotic-assisted percutaneous coronary intervention in the COVID-19 pandemic.** J. Cardiol. 2021; Yamaji K, Mitsutake Y, Nakano M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454811>
32. **Arterial Hypertension and Diabetes Mellitus in COVID-19 Patients: What Is Known by Gender Differences?** J Clin Med 2021; 10 Ciarambino T, Ciaburri F, Paoli VD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442038>
33. **Coronavirus disease (COVID-19) associated delayed-onset fulminant myocarditis in patient with a history of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection.** J Infect Chemother 2021; Ishikura H, Maruyama J, Hoshino K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446351>
34. **Bowel ischemia as onset of COVID-19 in otherwise asymptomatic patients with persistently negative swab.** J Intern Med 2021; Zamboni P, Bortolotti D, Occhionorelli S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437741>
35. **Hypercoagulopathy in COVID-19, Deep Venous Thrombosis After Extra-Corporeal Membrane Oxygenation Therapy: A Case Report.** J. Med. Cases 2021; 12:226-229 Garg A, Goli H, Yazdanpanah F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429795>
36. **The Trilogy of SARS-CoV-2 in Pediatrics (Part 3): Thrombosis, Anticoagulant, and Antiplatelet Considerations.** J Pediatr Pharmacol Ther 2021; 26:565-576 Tran VL, Parsons S, Varela CR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421405>
37. **One-year outcomes of patients with ST-segment elevation myocardial infarction during the COVID-19 pandemic.** J. Thromb. Thrombolysis 2021; 1-11 Phua K, Chew NWS, Sim V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448103>
38. **Metabolic Changes in SARS-CoV-2 Infection: Clinical Data and Molecular Hypothesis to Explain Alterations of Lipid Profile and Thyroid Function Observed in COVID-19 Patients.** Life (Basel) 2021; 11 D'Ardes D, Rossi I, Bucciarelli B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440605>
39. **Cardiovascular Disease Complicating COVID-19 in the Elderly.** Medicina (Kaunas) 2021; 57 Dayaramani C, De Leon J, Reiss AB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441038>

40. **Bi-valvular endocarditis occurring 2 months after COVID-19 infection.** Pan Afr. Med. J. 2021; 39:37Kraiem S, Amor HH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422160>
41. **COVID-19: Thromboembolism even in moderate courses.** Phlebologie 2021; 50:248-249Krome S.
42. **Novel effects of acute COVID-19 on cardiac mechanical function: Two case studies.** Physiol Rep 2021; 9:e14998Singh J, Bhagaloo L, Sy E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448551>
43. **Ovarian vein thrombosis as a first manifestation of COVID-19 infection.** Radiol Case Rep 2021; Badrawi N, Abdulghaffar S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422147>
44. **Decline in respiratory and cardiac admissions during the COVID-19 pandemic: What is the role of common respiratory virus infections?** Respirology 2021; Bloom CI, Johnston SL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427013>
45. **[Fighting the pandemic with collaboration at heart: Report from cardiologists in a COVID-19-dedicated Portuguese intensive care unit].** Rev. Port. Cardiol. 2021; Queirós PR, Ferreira ND, Caeiro D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429566>
46. **Return to Activity After SARS-CoV-2 Infection: Cardiac Clearance for Children and Adolescents.** Sports Health 2021:19417381211039746Chowdhury D, Fremed MA, Dean P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427496>
47. **Biomarkers of Coagulation and Inflammation in COVID-19-Associated Ischemic Stroke.** Stroke 2021:Strokeaha121035045Esenwa C, Cheng NT, Luna J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428931>
48. **Thrombosis in COVID-19 infection: Role of platelet activation-mediated immunity.** Thromb J 2021; 19:59Fard MB, Fard SB, Ramazi S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425822>
49. **A Case of Acute Pulmonary Embolus after mRNA SARS-CoV-2 Immunization.** Vaccines (Basel) 2021; 9Wiest NE, Johns GS, Edwards E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452028>
50. **Severe SARS-CoV-2 Infection in a Cat with Hypertrophic Cardiomyopathy.** Viruses 2021; 13Carvallo FR, Martins M, Joshi LR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452375>

Diagnosis (14 articles)

1. **Severe COVID-19 has a distinct phenotype from bacterial sepsis: a retrospective cohort study in deceased patients.** Ann Transl Med 2021; 9:1054Yu J, Wang Y, Lin S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422966>
2. **An update on novel approaches for diagnosis and treatment of SARS-CoV-2 infection.** Cell Biosci 2021; 11:164Safarchi A, Fatima S, Ayati Z, Vafaee F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420513>
3. **Using mobile applications and websites for the diagnosis of COVID-19 in Spain.** Enferm Infecc Microbiol Clin (Engl Ed) 2021; Guisado-Clavero M, Ares-Blanco S, Ben Abdellah LD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446394>
4. **NEWS2 to assess suspected COVID-19 in the community: a service evaluation of a primary care assessment centre.** Fam. Pract. 2021; 38:i3-i8Zaman I, Beevers ZCR, Ahmed R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448485>

5. **Triage Modeling for Differential Diagnosis Between COVID-19 and Human Influenza A Pneumonia: Classification and Regression Tree Analysis.** Front Med (Lausanne) 2021; 8:673253Xiao A, Zhao H, Xia J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447759>
6. **Clinical diagnosis of COVID-19. A multivariate logistic regression analysis of symptoms of COVID-19 at presentation.** Germs 2021; 11:221-237Fleitas PE, Paz JA, Simoy MI *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422694>
7. **Ruling Out Coronavirus Disease 2019 in Patients with Pneumonia: The Role of Blood Cell Count and Lung Ultrasound.** J Clin Med 2021; 10Biolo G, Fiotti N, Cominotto F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441777>
8. **Comparison of COVID-19 and Non-COVID-19 Pneumonia in Down Syndrome.** J Clin Med 2021; 10Real de Asua D, Mayer MA, Ortega MDC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442043>
9. **Detection of Pneumocystis jirovecii in Patients with Severe COVID-19: Diagnostic and Therapeutic Challenges.** J Fungi (Basel) 2021; 7Gerber V, Ruch Y, Chamaraux-Tran TN *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436124>
10. **A Case of Severe COVID-19 Pneumonia Diagnosed in Bronchoscopy With Negative Repeated Nasopharyngeal Swabs.** J. Med. Cases 2021; 12:217-219Shukha Y, Makhoul K, Abu-Elhija J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429794>
11. **Detection of COVID-19 from chest x-ray images using transfer learning.** J Med Imaging (Bellingham) 2021; 8:017503Manokaran J, Zabihollahy F, Hamilton-Wright A, Ukwatta E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435075>
12. **Biochemical role of serum ferritin and d-dimer parameters in COVID 19 diagnosis.** Saudi J. Biol. Sci. 2021; Farasani A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429685>
13. **The diagnostic value of chest X-ray in coronavirus disease 2019: A comparative study of X-ray and CT.** Sci. Prog. 2021; 104:368504211016204Zeng F, Cai Y, Guo Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424791>
14. **Diagnostic performance of lung ultrasound compared to CT scan in the diagnosis of pulmonary lesions of COVID-19 induced pneumonia: a preliminary study.** Virusdisease 2021:1-7Roshandel J, Alahyari S, Khazaei M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426793>

DM-MS-Obesity (19 articles)

1. **Pre-Existing Diabetes and COVID-Associated Hyperglycaemia in Patients with COVID-19 Pneumonia.** Biology (Basel) 2021; 10Laurenzi A, Caretto A, Molinari C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439986>
2. **New-Onset Diabetes in the Setting of Beta-Cell Dysfunction in a Young Patient With COVID-19 Infection.** Cureus 2021; 13:e16497Alshamam MS, Nso N, Idrees Z *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430112>
3. **A practical guidance on the use of intravenous insulin infusion for management of inpatient hyperglycemia: Intravenous Insulin Infusion for Management of Inpatient Hyperglycemia.** Diabetes Metab Syndr 2021; 15:102244Goyal A, Mathew UE, Golla KK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425556>
4. **Excessive eating and weight gain:A rare post-acute COVID-19 syndrome.** Diabetes Metab Syndr 2021; 15:102252Kaggwa MM, Favina A, Najjuka SM *et al.*

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34438358>

5. **FROM SWAB TESTING TO HEALTH OUTCOMES WITHIN THE T2DM POPULATION: IMPACT OF DIABETES BACKGROUND ON COVID19 PROGRESSION.** Diabetes Res Clin Pract 2021;109021 Bruno Giorda C, Picariello R, Tartaglino B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437941>
6. **Type 1 diabetes onset in Lombardy region, Italy, during the COVID-19 pandemic: The double-wave occurrence.** EClinicalMedicine 2021; 39:101067 Mamelì C, Scaramuzza A, Macedoni M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430836>
7. **Caution, "normal" BMI: health risks associated with potentially masked individual underweight-EPMA Position Paper 2021.** Epma J 2021;1-22 Golubnitschaja O, Liskova A, Koklesova L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422142>
8. **The role of GLP-1 receptor agonists during COVID-19 pandemic: a hypothetical molecular mechanism.** Expert Opin. Drug Saf. 2021;1-7 Banerjee Y, Pantea Stoian A, Silva-Nunes J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424130>
9. **COVID-19 Pandemic and Pediatric Type 1 Diabetes: No Significant Change in Glycemic Control During The Pandemic Lockdown of 2020.** Front. Endocrinol. (Lausanne) 2021; 12:703905 Nwosu BU, Al-Halbouni L, Parajuli S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447352>
10. **Diabetes Related Distress in Children with Type 1 Diabetes before and during the COVID-19 Lockdown in Spring 2020.** Int J Environ Res Public Health 2021; 18 Mianowska B, Fedorczak A, Michalak A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444274>
11. **Post-traumatic stress disorder (PTSD) in parents of children with type 1 diabetes during Covid-19 pandemic.** Ital. J. Pediatr. 2021; 47:176 Carducci C, Rapini N, Deodati A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446073>
12. **Arterial Hypertension and Diabetes Mellitus in COVID-19 Patients: What Is Known by Gender Differences?** J Clin Med 2021; 10 Ciarambino T, Ciaburri F, Paoli VD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442038>
13. **Metformin Use Is Associated with Decreased Mortality in COVID-19 Patients with Diabetes: Evidence from Retrospective Studies and Biological Mechanism.** J Clin Med 2021; 10 Poly TN, Islam MM, Li YJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441802>
14. **Telepharmacy: A Potential Alternative Approach for Diabetic Patients During the COVID-19 Pandemic.** J Multidiscip Healthc 2021; 14:2261-2273 Iftinan GN, Wathoni N, Lestari K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447253>
15. **Impact of the COVID-19 Pandemic on the Patient's Decision about Bariatric Surgery: Results of a National Survey.** Medicina (Kaunas) 2021; 57 Walędziak M, Różańska-Walędziak A, Bartnik P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440962>
16. **Coronavirus Disease (COVID)-19 and Diabetic Kidney Disease.** Pharmaceuticals (Basel) 2021; 14 Srivastava SP, Srivastava R, Chand S, Goodwin JE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451848>
17. **Predictive value of HbA1c for in-hospital adverse prognosis in COVID-19: A systematic review and meta-analysis.** Prim. Care Diabetes 2021; Zhu Z, Mao Y, Chen G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420899>

18. **Newly Diagnosed Diabetes in Patients with COVID-19: Different Types and Short-Term Outcomes.** Trop Med Infect Dis 2021; 6Farag AA, Hassanin HM, Soliman HH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449740>
19. **Increase in blood glucose level and incidence of diabetic ketoacidosis in children with type 1 diabetes mellitus in the Daegu-Gyeongbuk area during the coronavirus disease 2019 (COVID-19) pandemic.** Yeungnam Univ J Med 2021; Lee MS, Lee R, Ko CW, Moon JE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433241>

Education and training and science (59 articles)

1. **Impact of the first COVID-19 wave on surgical training in Flanders: are we losing competence?** Acta Chir. Belg. 2021;1-21Brouwers J, De Leyn P, Depypere LP. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428131>
2. **Disinfectant use by K-12 school staff to combat SARS-CoV-2.** Am. J. Infect. Control 2021; Hilbert TJ, Brancato C, Carter K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455031>
3. **Impact of clinical and patient pathway changes on paediatric research during the national COVID-19 response.** Arch. Dis. Child. 2021; Dicks P, Schwarze J, Dimitri P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429330>
4. **Online versus classroom teaching for medical students during COVID-19: measuring effectiveness and satisfaction.** BMC Med. Educ. 2021; 21:452AlQhtani A, AlSwedan N, Almulhim A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454493>
5. **Virtual obstetrics and gynecology fellowship interviews during the coronavirus disease 2019 (COVID-19) pandemic: a survey study.** BMC Med. Educ. 2021; 21:449Peyser A, Gulersen M, Nimaroff M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433453>
6. **Optimising educational opportunities for trainees during the pandemic.** Br. J. Hosp. Med. (Lond.) 2021; 82:1-8Netto M, Evans F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431348>
7. **eHealth Literacy, Awareness of Pandemic Infectious Diseases, and Healthy Lifestyle in Middle School Students.** Children (Basel) 2021; 8Choi S, Bang KS, Shin DA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438590>
8. **The Dutch Data Warehouse, a multicenter and full-admission electronic health records database for critically ill COVID-19 patients.** Crit Care 2021; 25:304Fleuren LM, Dam TA, Tonutti M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425864>
9. **Peer Learning and Operationalizing During COVID-19 Pandemic and Beyond.** Cureus 2021; 13:e16568Virarkar M, Morani AC, Bhosale P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430170>
10. **The Impact of the COVID-19 Pandemic on Urology Residents: a Narrative Review.** Curr Urol Rep 2021; 22:45Khusid JA, Kashani M, Fink LE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427779>
11. **Lessons in clinical reasoning - pitfalls, myths, and pearls: a case of confusion, disequilibrium, and "picking at the air".** Diagnosis (Berl) 2021; Magee CD, Parsons AS, Millard AS, Torre D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455730>

12. **Multidisciplinary Simulation Training for Surgical Tracheostomy in Patients Mechanically Ventilated Secondary to Severe Acute Respiratory Syndrome Coronavirus 2.** Ear Nose Throat J 2021;1455613211042119Towning R, Rennie C, Ferguson M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427150>
13. **A thematic analysis of higher education students' perceptions of online learning in Hong Kong under COVID-19: Challenges, strategies and support.** Educ Inf Technol (Dordr) 2021;1-28Yeung MWL, Yau AHY. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421326>
14. **EMJ COVID-19 monthly top five (June 2021).** Emerg Med J 2021; 38:650-652Chatha R, Reed M, Jennings H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449433>
15. **Emergency Medicine Journal COVID-19 monthly top five.** Emerg Med J 2021; 38:398-400Leech C, Hartley E, Pillai P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449414>
16. **Interactive live-stream surgery contributes to surgical education in the context of contact restrictions.** Eur Arch Otorhinolaryngol 2021;1-7van Bonn SM, Grajek JS, Schneider A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424381>
17. **The Impact of SARS-CoV-2 (COVID-19) Pandemic on International Dermatology Conferences in 2020.** Front Med (Lausanne) 2021; 8:726037Ha ES, Hong JY, Lim SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422873>
18. **A STEM Course Analysis During COVID-19: A Comparison Study in Performance and Affective Domain of PSTs Between F2F and F2S Flipped Classroom.** Front. Psychol. 2021; 12:669855Jeong JS, González-Gómez D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447329>
19. **California's COVID-19 Virtual Training Academy: Rapid Scale-Up of a Statewide Contact Tracing and Case Investigation Workforce Training Program.** Front Public Health 2021; 9:706697Brickley DB, Forster M, Alonis A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434915>
20. **Knowledge, Attitudes, and Safety Practices About COVID-19 Among High School Students in Iran During the First Wave of the Pandemic.** Front Public Health 2021; 9:680514Hatami H, Abbasi-Kangevari M, Malekpour MR, Kolahi AA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422743>
21. **Public Opinion and Expectations: Development of Public Health Education in China After COVID-19 Pandemic.** Front Public Health 2021; 9:702146Shen X, Li J, Dong T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447736>
22. **Student Nurses Undertaking Acute Hospital Paid Placements during COVID-19: Rationale for Opting-In? A Qualitative Inquiry.** Healthcare (Basel) 2021; 9McSherry R, Eost-Telling C, Stevens D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442138>
23. **Medical Faculty's and Students' Perceptions toward Pediatric Electronic OSCE during the COVID-19 Pandemic in Saudi Arabia.** Healthcare (Basel) 2021; 9Shaiba LA, Alnamakani MA, Temsah MH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442087>
24. **The future of scientific conferences in the era of the COVID-19 pandemic: critical analysis and future perspectives.** Ind. Health 2021; Valenti A, Fortuna G, Barillari C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421103>
25. **Psychosocial Health of K-12 Students Engaged in Emergency Remote Education and In-Person Schooling: A Cross-Sectional Study.** Int J Environ Res

- Public Health 2021; 18Acosta D, Fujii Y, Joyce-Beaulieu D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444312>
26. **A Cross-Sectional Study to Assess Knowledge of COVID-19 among Undergraduate Students in North-Central Ecuador.** Int J Environ Res Public Health 2021; 18Ortega-Paredes D, Larrea-Álvarez CM, Jijón SI *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444455>
 27. **Diaries of Nursing Students during the COVID-19 Pandemic: A Qualitative Descriptive Study.** Int J Environ Res Public Health 2021; 18Türkleş S, Boğahan M, Altundal H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444301>
 28. **Facing the Growing COVID-19 Infodemic: Digital Health Literacy and Information-Seeking Behaviour of University Students in Slovenia.** Int J Environ Res Public Health 2021; 18Vrdelja M, Vrbovšek S, Klopčič V *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444255>
 29. **Riding the waves: the ongoing impact of COVID-19 on a national surgical training cohort.** Ir. J. Med. Sci. 2021;1-7Hennessy O, Fowler AL, Hennessy C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453309>
 30. **A first look at self-reported growth in undergraduate students during COVID-19.** J. Am. Coll. Health 2021;1-4Hathaway ED, O'Shields RH.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448682>
 31. **How college students are coping with COVID-19: a qualitative study.** J. Am. Coll. Health 2021;1-9Park C, Zhang N, Madan N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449287>
 32. **Freshmen anxiety and COVID-19: Practical implications from an online intervention for supporting students affected by health inequities.** J. Am. Coll. Health 2021;1-10Ray EC, Perko A, Oehme K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449301>
 33. **Preparedness of Health Care Workers and Medical Students in University Hospital in Krakow for COVID-19 Pandemic within the CRACoV Project.** J Clin Med 2021; 10Żółtowska B, Barańska I, Szczerbińska K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441784>
 34. **The Assessment of COVID-19 Knowledge and Attitudes Among a Middle Eastern North African Community in Dearborn, Michigan.** J. Community Health 2021;1-7Ismail MA, Khalil M, Najdi R, Blackwood RA.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34455528>
 35. **Observations from Transforming a Continuing Education programme in the COVID-19 Era and Preparing for the Future.** J Eur CME 2021; 10:1964315Kawczak S, Fernandez A, Frampton B *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34434609>
 36. **Assessment of knowledge, attitudes, and precautionary actions against COVID-19 among medical students in Egypt.** J Infect Public Health 2021; Salem MR, Hanafy SHA, Bayad AT *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426094>
 37. **Assessment of Knowledge and Awareness among Dentists about COVID-19 Infection: A Qualitative Study.** J. Pharm. Bioallied Sci. 2021; 13:S162-s166Banerjee P, Pandey SK, Munde BS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447066>
 38. **Knowledge and Attitude Regarding COVID-19 among Students from Multiple Professional Background in Riyadh Region, Saudi Arabia: A Cross-sectional**

- Study.** *J. Pharm. Bioallied Sci.* 2021; 13:S251-s256Sharanesha RB, Aljuai BK, Alfaifi TA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447087>
39. **Knowledge and Attitude towards Dental Clinical Practice Related to COVID-19 Pandemic among Dental Interns in Saudi Arabia.** *J. Pharm. Bioallied Sci.* 2021; 13:S831-s835Shariff S, Benten MM, Ahmed Al-Zabidi MK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447210>
 40. **Knowledge, Attitude, and Psychological Effect on Undergraduate/ Postgraduate Students in Lockdown COVID-19 Situation.** *J. Pharm. Bioallied Sci.* 2021; 13:S696-s698Verma SK, Kumar BD, Chandra S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447184>
 41. **Significant Publications on Infectious Diseases Pharmacotherapy in 2020.** *J. Pharm. Pract.* 2021:8971900211040438Eubank TA, Zaidan N, Alnezary FS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449277>
 42. **Adolescents' Longitudinal School Engagement and Burnout Before and During COVID-19-The Role of Socio-Emotional Skills.** *J. Res. Adolesc.* 2021; 31:796-807Salmela-Aro K, Upadyaya K, Vinni-Laakso J, Hietajärvi L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448301>
 43. **Redesigning a Web-Based Stakeholder Consensus Meeting About Core Outcomes for Clinical Trials: Formative Feedback Study.** *JMIR Form Res* 2021; 5:e28878Katiri R, Hall DA, Hoare DJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420915>
 44. **Increased progression of myopia in elementary school children in China - Consequence of the COVID-19 lockdown?** *Klin. Monbl. Augenheilkd.* 2021; 238:756.
 45. **Novel and Innovative Approaches to Teaching Human Anatomy Classes in an Online Environment During a Pandemic.** *Med Sci Educ* 2021:1-11Diaz CM, Linden K, Solyali V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422452>
 46. **[Knowledge, attitudes, and practices about COVID-19 in Argentina. A cross-sectional study].** *Medicina (B. Aires)* 2021; 81:496-507Beltrán MA, Basombrío AM, Gagliolo AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453791>
 47. **Enabling remote learning system for virtual personalized preferences during COVID-19 pandemic.** *Multimed Tools Appl* 2021:1-27Ali S, Hafeez Y, Abbas MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421330>
 48. **Update on: Experiences from the German COVID-19 register.** *Nephrologe* 2021; 16:311-313Hoxha E.
 49. **COVID 19-transformed nursing education and communication competency: Testing COMFORT educational resources.** *Nurse Educ. Today* 2021; 107:105105Wittenberg E, Goldsmith JV, Chen C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455286>
 50. **Prevalence of Self-Reported Symptoms of Computer Vision Syndrome and Associated Risk Factors among School Students in China during the COVID-19 Pandemic.** *Ophthalmic Epidemiol.* 2021:1-11Li R, Ying B, Qian Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433364>
 51. **Impact of the COVID-19 pandemic on surgical practice, training, and research in Nigeria.** *Pan Afr. Med. J.* 2021; 39:59Tolani MA, Fidelis L, Oyelowo N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422182>
 52. **Use of emerging testing technologies and approaches for SARS-CoV-2: review of literature and global experience in an Australian context.** *Pathology* 2021;

- Graham M, Ballard SA, Pasricha S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425991>
53. **Can scientists use simple infographics to convince? Effects of the "flatten the curve" charts on perceptions of and behavioral intentions toward social distancing measures during the COVID-19 pandemic.** Public Underst Sci 2021;9636625211038719Li N, Molder AL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448434>
 54. **The Era of Coronavirus: Knowledge, Attitude, Practices, and Barriers to Hand Hygiene Among Makerere University Students and Katanga Community Residents.** Risk Manag. Healthc. Policy 2021; 14:3349-3356Nuwagaba J, Rutayisire M, Balizzakiwa T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421315>
 55. **Protecting clinical trials in cystic fibrosis during the SARS-CoV-2 pandemic: risks and mitigation measures.** Trials 2021; 22:578van Koningsbruggen-Rietschel S, Dunlevy F, Bulteel V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454570>
 56. **Impact of COVID-19 pandemic on urology residency training.** Urol Ann 2021; 13:215-219Alyami FA, Almuhaideb MA, Alzahrani MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421254>
 57. **Romanian Medical Students' Attitude towards and Perceived Knowledge on COVID-19 Vaccination.** Vaccines (Basel) 2021; 9Bălan A, Bejan I, Bonciu S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451979>
 58. **Health Education and Vaccination for the Construction of Inclusive Societies.** Vaccines (Basel) 2021; 9García-Toledano E, Palomares-Ruiz A, Cebrián-Martínez A, López-Parra E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451938>
 59. **Assessment of healthcare professionals' perceptions and attitudes towards the COVID-19 pandemic in Turkey.** Work 2021; 69:1163-1170Türktemiz H, Ünaldı, Aydoğan DB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420998>

Elderly (15 articles)

1. **Risk of Covid-19 in shielded and nursing care home patients: cohort study in general practice.** BJGP Open 2021; Wingfield D, Taghavi Azar Sharabiani M, Majeed A, Molokhia M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446435>
2. **Thrombotic Thrombocytopenic Purpura Presentation in an Elderly Gentleman Following COVID Vaccine Circumstances.** Cureus 2021; 13:e16619Chamarti K, Dar K, Reddy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447649>
3. **Prevalence, Pattern and Functional Outcome of Post COVID-19 Syndrome in Older Adults.** Cureus 2021; 13:e17189P S, Madhavan S, Pandurangan V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422503>
4. **Evolution of Mortality by Age Group in Patients With COVID-19 Above 60 Years of Age.** Cureus 2021; 13:e17149Pereira de Godoy MR, Machaso Salomão ML, Queiroz F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430186>
5. **Distancing Adherence and Negative Emotions among the Israeli Elderly Population during the COVID-19 Pandemic.** Int J Environ Res Public Health 2021; 18Bord S, Schor A, Satran C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444515>
6. **The Ethics of Dying: Deciphering Pandemic-Resultant Pressures That Influence Elderly Patients' Medical Assistance in Dying (MAiD) Decisions.** Int J

- [Environ Res Public Health](http://www.ncbi.nlm.nih.gov/pubmed/?term=34444568) 2021; 18Khawaja M, Khawaja A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444568>
7. **Neurosurgery in octogenarians during the COVID-19 pandemic: Results from a tertiary care trauma centre.** [Interdiscip Neurosurg](http://www.ncbi.nlm.nih.gov/pubmed/?term=34426782) 2021; 26:101357Agyemang K, Rose A, Baig S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426782>
 8. **US Nursing Home Quality Ratings Associated with COVID-19 Cases and Deaths Introduction.** [J. Am. Med. Dir. Assoc.](http://www.ncbi.nlm.nih.gov/pubmed/?term=34454922) 2021; Khairat S, Zalla LC, Adler-Milstein J, Kistler CE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454922>
 9. **High-Flow Nasal Cannula Oxygenation in Older Patients with SARS-CoV-2-Related Acute Respiratory Failure.** [J Clin Med](http://www.ncbi.nlm.nih.gov/pubmed/?term=34441811) 2021; 10Hacquin A, Perret M, Manckoundia P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441811>
 10. **Risk Factors Affecting Mental Health During The Early Stages Of The Covid-19 Pandemic In High-Risk 50+ Population In The Czech Republic.** [J Gerontol Soc Work](http://www.ncbi.nlm.nih.gov/pubmed/?term=34435934) 2021:1-26Vaculíková J, Hanková M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435934>
 11. **Role of Nursing Home Quality on COVID-19 Cases and Deaths: Evidence from Florida Nursing Homes.** [J Gerontol Soc Work](http://www.ncbi.nlm.nih.gov/pubmed/?term=34435929) 2021:1-17Wang X, Wilson C, Holmes K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435929>
 12. **Evidence of Long-Lasting Humoral and Cellular Immunity against SARS-CoV-2 Even in Elderly COVID-19 Convalescents Showing a Mild to Moderate Disease Progression.** [Life \(Basel\)](http://www.ncbi.nlm.nih.gov/pubmed/?term=34440549) 2021; 11Fischer B, Lindenkamp C, Lichtenberg C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440549>
 13. **Cardiovascular Disease Complicating COVID-19 in the Elderly.** [Medicina \(Kaunas\)](http://www.ncbi.nlm.nih.gov/pubmed/?term=34441038) 2021; 57Dayaramani C, De Leon J, Reiss AB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441038>
 14. **A Modeling Study on Vaccination and Spread of SARS-CoV-2 Variants in Italy.** [Vaccines \(Basel\)](http://www.ncbi.nlm.nih.gov/pubmed/?term=34452040) 2021; 9Antonini C, Calandrini S, Bianconi F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452040>
 15. **Age- and Sex-Graded Data Evaluation of Vaccination Reactions after Initial Injection of the BNT162b2 mRNA Vaccine in a Local Vaccination Center in Germany.** [Vaccines \(Basel\)](http://www.ncbi.nlm.nih.gov/pubmed/?term=3445203) 2021; 9Hoffmann MA, Wieler HJ, Enders P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=3445203>

Epidemiology (72 articles)

1. **Prevalence of SARS-CoV-2 IgG antibodies in health care workers at a tertiary care academic medical center - An assessment of occupational infection risk.** [Am. J. Infect. Control](http://www.ncbi.nlm.nih.gov/pubmed/?term=34454683) 2021; 49:1158-1161Forster D, Lin N, Levens J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454683>
2. **A framework for monitoring population immunity to SARS-CoV-2.** [Ann. Epidemiol.](http://www.ncbi.nlm.nih.gov/pubmed/?term=34425208) 2021; Lopman BA, Shioda K, Nguyen Q *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425208>
3. **Cross-disciplinary approaches to assist with nucleic acid testing for SARS-CoV-2.** [Appl. Microbiol. Biotechnol.](http://www.ncbi.nlm.nih.gov/pubmed/?term=34423408) 2021; 105:6291-6299Yang S, Pan X, Yuan D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423408>
4. **Differential evolution and particle swarm optimization against COVID-19.** [Artif Intell Rev](http://www.ncbi.nlm.nih.gov/pubmed/?term=34426713) 2021:1-71Piotrowski AP, Piotrowska AE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426713>

5. **Short-term forecasting of daily infections, fatalities and recoveries about COVID-19 in Algeria using statistical models.** Beni Suef Univ J Basic Appl Sci 2021; 10:46Khan F, Lounis M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426791>
6. **Low Seroprevalence of SARS-CoV-2 in Rhode Island blood donors during may 2020 as determined using multiple serological assay formats.** BMC Infect. Dis. 2021; 21:871Nesbitt DJ, Jin DP, Hogan JW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433423>
7. **A case-control study of factors associated with SARS-CoV-2 infection among healthcare workers in Colombia.** BMC Infect. Dis. 2021; 21:878Rodriguez-Lopez M, Parra B, Vergara E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452600>
8. **Did vaccine inequity lead to the second wave of COVID-19 infections in Trinidad and Tobago?** BMJ Glob Health 2021; 6Maharaj SB, Ramsewak SS, Dookeram D, Franco D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433544>
9. **Empowering the crowd: feasible strategies for epidemic management in high-density informal settlements. The case of COVID-19 in Northwest Syria.** BMJ Glob Health 2021; 6Pascual-García A, Klein JD, Villers J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446431>
10. **The contribution of epidemiological models to the description of the outbreak of the COVID-19 pandemic.** Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz 2021; Priesemann V, Meyer-Hermann M, Pigeot I, Schöbel A.
11. **Epidemiologic and clinical characteristics of multisystem inflammatory syndrome in adults: a rapid review.** Can. Commun. Dis. Rep. 2021; 47:305-315Atchessi N, Edjoc R, Striha M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421386>
12. **Evolutionary warning system for COVID-19 severity: Colony predation algorithm enhanced extreme learning machine.** Comput. Biol. Med. 2021; 136:104698Shi B, Ye H, Zheng L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426165>
13. **New COVID-19 infections: Sanctions for queue jumpers.** Deutsches Arzteblatt International 2021; 118:A474Kühnert E.
14. **The COVID-19 disease burden in Germany in 2020 - Years of life lost to death and disease over the course of the pandemic.** Deutsches Arzteblatt International 2021; 118:145-151Rommel A, von der Lippe E, Plaß D *et al.*
15. **Prevalence of SARS-CoV-2 Antibodies after First 6 Months of COVID-19 Pandemic, Portugal.** Emerg Infect Dis 2021; 27Canto ECL, Pereira AHG, Ribeiro R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437830>
16. **Real-Time Genomics for Tracking Severe Acute Respiratory Syndrome Coronavirus 2 Border Incursions after Virus Elimination, New Zealand.** Emerg Infect Dis 2021; 27:2361-2368Douglas J, Geoghegan JL, Hadfield J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424164>
17. **Epidemiology of Coronavirus Disease Outbreak among Crewmembers on Cruise Ship, Nagasaki City, Japan, April 2020.** Emerg Infect Dis 2021; 27:2251-2260Maeda H, Sando E, Toizumi M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423761>
18. **SARS-CoV-2 Wastewater Surveillance for Public Health Action.** Emerg Infect Dis 2021; 27:1-8McClary-Gutierrez JS, Mattioli MC, Marcenac P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424162>

19. **Severe Acute Respiratory Syndrome Coronavirus 2 in Farmed Mink (Neovison vison), Poland.** Emerg Infect Dis 2021; 27:2333-2339 Rabalski L, Kosinski M, Smura T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423763>
20. **Transmission of SARS-CoV-2 from Human to Domestic Ferret.** Emerg Infect Dis 2021; 27:2450-2453 Rafçnik J, Kofçevlar A, Slavec B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424180>
21. **Piecewise Modeling the Accumulated Daily Growth of COVID-19 Deaths: The Case of the State of São Paulo, Brazil.** Entropy (Basel) 2021; 23 Saraiva EF, de Bragança Pereira CA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441153>
22. **SARS-CoV-2 in a stream running through an underprivileged, underserved, urban settlement in São Paulo, Brazil: A 7-month follow-up.** Environ Pollut 2021; 290:118003 Pepe Razzolini MT, Funada Barbosa MR, Silva de Araújo R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425371>
23. **Impacts of K-12 school reopening on the COVID-19 epidemic in Indiana, USA.** Epidemics 2021; 37:100487 Espavla G, Cavany S, Oidtmann R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425301>
24. **SARS-CoV-2 infection and transmission in school settings during the second COVID-19 wave: a cross-sectional study, Berlin, Germany, November 2020.** Euro Surveill 2021; 26 Theuring S, Thielecke M, van Loon W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448448>
25. **Roles of Children and Adolescents in COVID-19 Transmission in the Community: A Retrospective Analysis of Nationwide Data in Japan.** Front Pediatr 2021; 9:705882 Imamura T, Saito M, Ko YK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447727>
26. **SARS-CoV-2 infection among primary healthcare workers: a cross-sectional study.** Germs 2021; 11:324-328 HA AQ, Hamed E, Alnuaimi AS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422704>
27. **COVID-19 deaths and associated demographic factors in Central Java, Indonesia.** Germs 2021; 11:255-265 Sutningsih D, Azzahra NA, Prabowo Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422697>
28. **The effect of correlation and false negatives in pool testing strategies for COVID-19.** Health Care Manag Sci 2021; 1:1-20 Basso LJ, Salinas V, Sauré D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453651>
29. **Forecasting Covid-19: SARMA-ARCH approach.** Health Technol (Berl) 2021; 1:1-10 Kamalov F, Thabtah F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422542>
30. **Questionnaire for Assessing Social Contacts of Nurses Who Worked with Coronavirus Patients during the First Wave of the COVID-19 Pandemic.** Healthcare (Basel) 2021; 9 Dolić M, Antičević V, Dolić K, Pogorelić Z. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442067>
31. **Epidemiological models and COVID-19: a comparative view.** Hist Philos Life Sci 2021; 43:104 Iranzo V, Pérez-González S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432152>
32. **SARS-COV-2 seroprevalence among all healthcare workers in a tertiary hospital in Spain.** Infect Dis (Lond) 2021; 1:1-8 Cantero M, Millón-Pérez R, Muñoz E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424122>
33. **Forecasting the Long-Term Trends of Coronavirus Disease 2019 (COVID-19) Epidemic Using the Susceptible-Infectious-Recovered (SIR) Model.** Infect Dis Rep 2021; 13:668-684 Kartono A, Karimah SV, Wahyudi ST *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449629>

34. **Empirical Evaluation of Alternative Time-Series Models for COVID-19 Forecasting in Saudi Arabia.** *Int J Environ Res Public Health* 2021; 18Al-Turaiki I, Almutlaq F, Alrasheed H, Alballa N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444409>
35. **Risk Factors Associated with Nursing Home COVID-19 Outbreaks: A Retrospective Cohort Study.** *Int J Environ Res Public Health* 2021; 18Cazzoletti L, Zanolin ME, Tocco Tussardi I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444183>
36. **Spatial Disparities of COVID-19 Cases and Fatalities in United States Counties.** *Int J Environ Res Public Health* 2021; 18Jackson SL, Derakhshan S, Blackwood L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444007>
37. **Excess Risk of COVID-19 to University Populations Resulting from In-Person Sporting Events.** *Int J Environ Res Public Health* 2021; 18Johnson SS, Jackson KC, Mietchen MS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444008>
38. **Understanding the Impacts of Novel Coronavirus Outbreaks on People Who Use Drugs: A Systematic Review to Inform Practice and Drug Policy Responses to COVID-19.** *Int J Environ Res Public Health* 2021; 18Munro A, Booth H, Gray NM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444219>
39. **What Could Explain the Lower COVID-19 Burden in Africa despite Considerable Circulation of the SARS-CoV-2 Virus?** *Int J Environ Res Public Health* 2021; 18Wamai RG, Hirsch JL, Van Damme W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444386>
40. **Novel Nested-Seq Approach for SARS-CoV-2 Real-Time Epidemiology and In-Depth Mutational Profiling in Wastewater.** *Int J Mol Sci* 2021; 22Avgeris M, Adamopoulos PG, Galani A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445204>
41. **A Longitudinal, Clinical, and Spatial Epidemiologic Analysis of a Large COVID-19 Long-Term Care Home Outbreak.** *J. Am. Med. Dir. Assoc.* 2021; Kain D, Stall N, Brown K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425097>
42. **CIDO ontology updates and secondary analysis of host responses to COVID-19 infection based on ImmPort reports and literature.** *J. Biomed. Semantics* 2021; 12:18Huffman A, Masci AM, Zheng J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454610>
43. **High-Flow Nasal Cannula Oxygenation in Older Patients with SARS-CoV-2-Related Acute Respiratory Failure.** *J Clin Med* 2021; 10Hacquin A, Perret M, Manckoundia P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441811>
44. **A Single-Center (Sibiu, Romania), Retrospective Study (March-November 2020) of COVID-19 Clinical and Epidemiological Features in Children.** *J Clin Med* 2021; 10Totan M, Gligor FG, Duică L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441813>
45. **Joint Estimation Of Generation Time And Incubation Period For Coronavirus Disease (Covid-19).** *J Infect Dis* 2021; Lau YC, Tsang TK, Kennedy-Shaffer L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423821>
46. **Non-linear spatial linkage between COVID-19 pandemic and mobility in ten countries: A lesson for future wave.** *J Infect Public Health* 2021; Habib Y, Xia E, Hashmi SH, Fareed Z. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452871>
47. **An Overview on the Epidemiology and Immunology of COVID-19.** *J Infect Public Health* 2021; Meskini M, Rezghi Rami M, Maroofi P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420903>

48. **"Young Saplings on Fire" Newly Graduated Nurses in the COVID-19 Pandemic: A Qualitative Study.** *J. Nurs. Manag.* 2021; Kovanci MS, Özbaş AA.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449922>
49. **SARS-CoV-2 Incidence and Transmission in 48 K-12 Virginia Public Schools During Community Surge.** *J Pediatric Infect Dis Soc* 2021; Rowland LC, Hahn JB, Jelderks TL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437703>
50. **Epidemiological, Clinical, and Laboratory Predictors of In-Hospital Mortality Among COVID-19 Patients Admitted in a Tertiary COVID Dedicated Hospital, Northern India: A Retrospective Observational Study.** *J. Prim. Care Community Health* 2021; 12:21501327211041486Ahmad S, Kumar P, Shekhar S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427136>
51. **GIS-Based Analysis Framework to Identify the Determinants of COVID-19 Incidence and Fatality in Africa.** *J. Prim. Care Community Health* 2021; 12:21501327211041208Hassaan MA, Abdelwahab RG, Elbarky TA, Ghazy RM.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435530>
52. **A data driven agent-based model that recommends non-pharmaceutical interventions to suppress Coronavirus disease 2019 resurgence in megacities.** *J R Soc Interface* 2021; 18:20210112Yin L, Zhang H, Li Y *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428950>
53. **Clinical characteristics of the first and second COVID-19 waves in the Bronx, New York: A retrospective cohort study.** *Lancet Reg Health Am* 2021:100041Hoogenboom WS, Pham A, Anand H *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423331>
54. **Fuzzy Association Analysis for Identifying Climatic and Socio-Demographic Factors Impacting the Spread of COVID-19.** *Methods* 2021; Chatterjee S, Chakrabarty D, Mukhopadhyay A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433092>
55. **Molecular Epidemiology of SARS-CoV-2 in Diverse Environmental Samples Globally.** *Microorganisms* 2021; 9Islam A, Sayeed MA, Kalam MA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34442775>
56. **Latin American Origin Is Not Associated with Worse Outcomes among Hospitalized Patients with COVID-19 in a Public Healthcare System.** *Microorganisms* 2021; 9Otero-Rodriguez S, Moreno-Pérez O, Ramos JM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34442851>
57. **Update on: SARS-CoV-2/COVID-19—epidemiology and prevention.** *Nephrologie* 2021; 16:307-310Salzberger B, Buder F, Lampl B *et al.*
58. **Changes in mortality patterns and place of death during the COVID-19 pandemic: A descriptive analysis of mortality data across four nations.** *Palliat. Med.* 2021:2692163211040981O'Donnell SB, Bone AE, Finucane AM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425717>
59. **Predominance of the SARS-CoV-2 Lineage P.1 and Its Sublineage P.1.2 in Patients from the Metropolitan Region of Porto Alegre, Southern Brazil in March 2021.** *Pathogens* 2021; 10Franceschi VB, Caldana GD, Perin C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451453>
60. **Impact of Environmental Indicators on the COVID-19 Pandemic in Delhi, India.** *Pathogens* 2021; 10Mangla S, Pathak AK, Arshad M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451467>
61. **Wastewater Based Epidemiology Perspective as a Faster Protocol for Detecting Coronavirus RNA in Human Populations: A Review with Specific**

- Reference to SARS-CoV-2 Virus.** *Pathogens* 2021; 10Mousazadeh M, Ashoori R, Paital B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451472>
62. **Monitoring the Circulation of SARS-CoV-2 Variants by Genomic Analysis of Wastewater in Marseille, South-East France.** *Pathogens* 2021; 10Wurtz N, Revol O, Jardot P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451505>
 63. **Effect of storage conditions on SARS-CoV-2 RNA quantification in wastewater solids.** *PeerJ* 2021; 9:e11933Simpson A, Topol A, White BJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447628>
 64. **Efficient Bayesian inference of fully stochastic epidemiological models with applications to COVID-19.** *R Soc Open Sci* 2021; 8:211065Li YI, Turk G, Rohrbach PB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430050>
 65. **Letter from Trinidad and Tobago: No final battles in the weary war on COVID-19?** *Respirology* 2021; Mohammed SR, Sakhamuri T, Sakhamuri S, Teelucksingh S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431158>
 66. **[Not Available].** *Rev. Epidemiol. Sante Publique* 2021; Davin-Casalena B, Jardin M, Guerrera H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454792>
 67. **Evaluating the Preparedness of Indian States against COVID-19 Pandemic Risk: A Fuzzy Multi-criteria Decision-Making Approach.** *Risk Anal.* 2021; Choudhury S, Majumdar A, Saha AK, Majumdar P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424559>
 68. **Multiplicative Holts Winter Model for Trend Analysis and Forecasting of COVID-19 Spread in India.** *SN Comput Sci* 2021; 2:416Swapnarekha H, Behera HS, Nayak J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423315>
 69. **An Autochthonous Outbreak of the SARS-CoV-2 P.1 Variant of Concern in Southern Italy, April 2021.** *Trop Med Infect Dis* 2021; 6Loconsole D, Sallustio A, Centrone F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449757>
 70. **A Modeling Study on Vaccination and Spread of SARS-CoV-2 Variants in Italy.** *Vaccines (Basel)* 2021; 9Antonini C, Calandrini S, Bianconi F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452040>
 71. **Phylogenetic reconstruction of the initial stages of the spread of the SARS-CoV-2 virus in the Eurasian and American continents by analyzing genomic data.** *Virus Res.* 2021; 305:198551Bukin YS, Bondaryuk AN, Kulakova NV *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454972>
 72. **SARS-CoV-2 Seroprevalence Structure of the Russian Population during the COVID-19 Pandemic.** *Viruses* 2021; 13Popova AY, Smirnov VS, Andreeva EE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452512>

Gastro-enterology (23 articles)

1. **Jejunal closed-loop obstruction without prior abdominal surgery during COVID-19 ICU admittance: A case report.** *Ann Med Surg (Lond)* 2021; 69:102729Meekel JP, Timmerman MC, Hoeksema M, Boer FCD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426766>
2. **SARS-CoV-2 identified by transmission electron microscopy in lymphoproliferative and ischaemic intestinal lesions of COVID-19 patients with acute abdominal pain: two case reports.** *BMC Gastroenterol.* 2021; 21:334Martín-Cardona A, Lloreta Trull J, Alberó-González R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445965>
3. **Liver transplantation for post-COVID-19 sclerosing cholangitis.** *BMJ Case Rep.* 2021; 14Lee A, Wein AN, Doyle MBM, Chapman WC.

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446515>

4. **COVID-19 and Liver dysfunction: Epidemiology, Association and Potential Mechanisms.** Clin Res Hepatol Gastroenterol 2021;101793Du M, Yang DS, Liu M, Liu J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428501>
5. **Drug-Induced Liver Injury After COVID-19 Vaccine.** Cureus 2021; 13:e16491Mann R, Sekhon S, Sekhon S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430106>
6. **COVID-19 and Effect on Liver Transplant.** Curr. Treat. Options Gastroenterol. 2021;1-17Nobel YR, Phipps M, Verna EC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421290>
7. **Impact of COVID-19 on interest in hepato-pancreato-biliary diseases.** Environ. Sci. Pollut. Res. Int. 2021;1-6Pakhchanian H, Raiker R, Kardeş S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424472>
8. **The Influence of Face Shields on the Quality of Colonoscopy in the Era of the COVID-19 Pandemic.** Gut Liver 2021; Lee JW, Lee HJ, Kim DS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426561>
9. **Liver Transplant Society of India Guidelines for Liver Transplant during COVID-19 times.** J. Clin. Exp. Hepatol. 2021; Gupta S, Sudhindran S, Saraf N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429571>
10. **COVID-19 in Liver Transplant Recipients.** J Clin Transl Hepatol 2021; 9:545-550Kullar R, Patel AP, Saab S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447684>
11. **Impact of the COVID-19 pandemic on hepatitis C diagnosis in Brazil: Is the global hepatitis C elimination strategy at risk?** J Hepatol 2021; do Carmo RF, de Souza CDF. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437907>
12. **New-Onset Autoimmune Hepatitis following mRNA Covid-19 Vaccination in a 36-year-old woman with Primary Sclerosing Cholangitis - should we be more vigilant?** J Hepatol 2021; Zhou T, Fronhoffs F, Dold L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450237>
13. **Combined Percutaneous Tracheostomy and Endoscopic Gastrostomy Tubes in COVID-19: A Prospective Series of Patient Outcomes.** J. Intensive Care Med. 2021;8850666211038875Oberg CL, Keyes C, Panchabhai TS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424096>
14. **Bowel ischemia as onset of COVID-19 in otherwise asymptomatic patients with persistently negative swab.** J Intern Med 2021; Zamboni P, Bortolotti D, Occhionorelli S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437741>
15. **[SARS-CoV-2 Vaccination for Adult Patients with Inflammatory Bowel Disease: Expert Consensus Statements by KASID].** Korean J. Gastroenterol. 2021; 78:117-128Lee YJ, Kim SE, Park YE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446634>
16. **[KASID Guidance for Clinical Practice Management of Adult Inflammatory Bowel Disease during the COVID-19 Pandemic: Expert Consensus Statement].** Korean J. Gastroenterol. 2021; 78:105-116Park YE, Lee YJ, Chang JY *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446633>
17. **Guillain-Barré syndrome after COVID-19 mRNA vaccination in a liver transplant recipient with favorable treatment response.** Liver Transpl. 2021; Hughes DL, Brunn JA, Jacobs J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431208>

18. **Gut Dysbiosis during COVID-19 and Potential Effect of Probiotics.** Microorganisms 2021; 9:Hung YP, Lee CC, Lee JC *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34442684>
19. **Sewage Systems Surveillance for SARS-CoV-2: Identification of Knowledge Gaps, Emerging Threats, and Future Research Needs.** Pathogens 2021; 10:Amereh F, Negahban-Azar M, Isazadeh S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451410>
20. **Psychosocial situation, adherence, and utilization of video consultation in young adult long-term pediatric liver transplant recipients during COVID-19 pandemic.** Pediatr. Transplant. 2021:e14121Krvðncke S, Lund LK, Buchholz A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428322>
21. **Liver transplantation during global COVID-19 pandemic.** World J Clin Cases 2021; 9:6608-6623Alfishawy M, Nso N, Nassar M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447809>
22. **What paradigm shifts occurred in the management of acute diverticulitis during the COVID-19 pandemic? A scoping review.** World J Clin Cases 2021; 9:6759-6767Gallo G, Ortenzi M, Grossi U *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447822>
23. **COVID-19 infection and liver injury: Clinical features, biomarkers, potential mechanisms, treatment, and management challenges.** World J Clin Cases 2021; 9:6178-6200Sivandzadeh GR, Askari H, Safarpour AR *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34434987>

Guidelines (13 articles)

1. **COVID-19 vaccine use in immunocompromised patients: A commentary on evidence and recommendations.** Am. J. Health Syst. Pharm. 2021; Duly K, Farraye FA, Bhat S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455440>
2. **Codevelopment of COVID-19 infection prevention and control guidelines in lower-middle-income countries: the 'SPRINT' principles.** BMJ Glob Health 2021; 6:Haldane V, Ratnapalan S, Perera N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452942>
3. **Thromboprophylaxis in Patients with COVID-19: Systematic Review of National and International Clinical Guidance Reports.** Curr. Vasc. Pharmacol. 2021; Kyriakoulis KG, Kollias A, Kyriakoulis IG *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34431465>
4. **Caution, "normal" BMI: health risks associated with potentially masked individual underweight-EPMA Position Paper 2021.** Epma j. 2021:1-22Golubnitschaja O, Liskova A, Koklesova L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422142>
5. **Application of ISO/IEC Guide 51 to COVID-19 Infection Control for the Occupational Safety.** Ind. Health 2021; Hojo R, Umezaki S, Kan C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421104>
6. **COVID-19 safety guidelines for school eye health screening programs.** Indian J Ophthalmol 2021; 69:2511-2515Prakash WD, Khanna RC.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427255>
7. **COVID-19 Vaccine in Pregnant and Lactating Women: A Review of Existing Evidence and Practice Guidelines.** Infect Dis Rep 2021; 13:685-699Garg I, Shekhar R, Sheikh AB, Pal S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449637>

8. **Australia and New Zealand Transplant and Cellular Therapies COVID-19 vaccination consensus position statement.** *Intern. Med. J.* 2021; 51:1321-1323 Hamad N, Ananda-Rajah M, Gilroy N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423546>
9. **Rationale for Polyclonal Intravenous Immunoglobulin Adjunctive Therapy in COVID-19 Patients: Report of a Structured Multidisciplinary Consensus.** *J Clin Med* 2021; 10 Coloretti I, Berlot G, Busani S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441796>
10. **[SARS-CoV-2 Vaccination for Adult Patients with Inflammatory Bowel Disease: Expert Consensus Statements by KASID].** *Korean J. Gastroenterol.* 2021; 78:117-128 Lee YJ, Kim SE, Park YE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446634>
11. **[KASID Guidance for Clinical Practice Management of Adult Inflammatory Bowel Disease during the COVID-19 Pandemic: Expert Consensus Statement].** *Korean J. Gastroenterol.* 2021; 78:105-116 Park YE, Lee YJ, Chang JY *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446633>
12. **Prevention of infections by influenza virus and respiratory syncytial virus after removal of the lockdown measures: Joint statement of the German Society for Pediatric Infectious Diseases (DGPI) and the Society for Pediatric Pneumology (GPP).** *Monatsschr. Kinderheilkd.* 2021; Huppertz HI, Kopp MV, Hübner J.
13. **Qatar Prediction Rule Using ED Indicators of COVID-19 at Triage.** *Qatar Med J* 2021; 2021:18 Pathan SA, Thomas CE, Bhutta ZA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422577>

Imaging (36 articles)

1. **Association of echocardiographic parameters with chest computed tomography score in patients with COVID-19 disease.** *Adv. Med. Sci.* 2021; 66:403-410 Saylik F, Akbulut T, Oguz M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454343>
2. **Comparison of Brain Activation Patterns during Olfactory Stimuli between Recovered COVID-19 Patients and Healthy Controls: A Functional Near-Infrared Spectroscopy (fNIRS) Study.** *Brain Sci* 2021; 11 Ho RC, Sharma VK, Tan BYQ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439587>
3. **Emergency cardiac imaging for coronavirus disease 2019 (COVID-19) in practice: a case of takotsubo stress cardiomyopathy.** *Cardiovasc. Ultrasound* 2021; 19:31 Belli O, Ardissino M, Bottiroli M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429107>
4. **Differences in the Concentration of Anti-SARS-CoV-2 IgG Antibodies Post-COVID-19 Recovery or Post-Vaccination.** *Cells* 2021; 10 Tretyn A, Szczepanek J, Skorupa M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440721>
5. **Application of deep learning to identify COVID-19 infection in posteroanterior chest X-rays.** *Clin Imaging* 2021; 80:268-273 Maharjan J, Calvert J, Pellegrini E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425544>
6. **Recovery of outpatient imaging utilization during the first wave of the COVID-19 pandemic.** *Clin Imaging* 2021; 80:277-282 Naidich JJ, Boltyenkov A, Wang JJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425546>
7. **Accurate detection of COVID-19 using deep features based on X-Ray images and feature selection methods.** *Comput. Biol. Med.* 2021; 137:104771 Narin A.

- <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450381>
8. **Transfer Learning for the Detection and Diagnosis of Types of Pneumonia including Pneumonia Induced by COVID-19 from Chest X-ray Images.** *Diagnostics (Basel)* 2021; 11Brima Y, Atemkeng M, Tankio Djiokap S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441414>
 9. **Hand-Held Ultrasound of the Lung: A Systematic Review.** *Diagnostics (Basel)* 2021; 11Haji-Hassan M, Lenghel LM, Bolboacă SD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441315>
 10. **The Applications of Artificial Intelligence in Chest Imaging of COVID-19 Patients: A Literature Review.** *Diagnostics (Basel)* 2021; 11Laino ME, Ammirabile A, Posa A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441252>
 11. **COVLIAS 1.0: Lung Segmentation in COVID-19 Computed Tomography Scans Using Hybrid Deep Learning Artificial Intelligence Models.** *Diagnostics (Basel)* 2021; 11Suri JS, Agarwal S, Pathak R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441340>
 12. **A Comparison of Lung Ultrasound and Computed Tomography in the Diagnosis of Patients with COVID-19: A Systematic Review and Meta-Analysis.** *Diagnostics (Basel)* 2021; 11Wang M, Luo X, Wang L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441286>
 13. **Caution, "normal" BMI: health risks associated with potentially masked individual underweight-EPMA Position Paper 2021.** *Epma j* 2021;1-22Golubnitschaja O, Liskova A, Koklesova L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422142>
 14. **Deep Fractional Max Pooling Neural Network for COVID-19 Recognition.** *Front Public Health* 2021; 9:726144Wang SH, Satapathy SC, Anderson D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447739>
 15. **Comparing radiological presentations of first and second strains of COVID-19 infections in a low-resource country.** *Heliyon* 2021; 7:e07818Brakohiapa EKK, Sarkodie BD, Botwe BO *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423148>
 16. **Ruling Out Coronavirus Disease 2019 in Patients with Pneumonia: The Role of Blood Cell Count and Lung Ultrasound.** *J Clin Med* 2021; 10Biolo G, Fiotti N, Cominotto F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441777>
 17. **Reshaping of Italian Echocardiographic Laboratories Activities during the Second Wave of COVID-19 Pandemic and Expectations for the Post-Pandemic Era.** *J Clin Med* 2021; 10Ciampi Q, Antonini-Canterin F, Barbieri A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441762>
 18. **Evaluation of a combination protocol of CT-first triage and active telemedicine methods by a selected team tackling COVID-19: An experimental research study.** *J Infect Public Health* 2021; 14:1212-1217Miyake S, Higurashi T, Kato H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425358>
 19. **Detection of COVID-19 from chest x-ray images using transfer learning.** *J Med Imaging (Bellingham)* 2021; 8:017503Manokaran J, Zabihollahy F, Hamilton-Wright A, Ukwatta E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435075>
 20. **Role of Lung Ultrasound in Predicting Clinical Severity and Fatality in COVID-19 Pneumonia.** *J Pers Med* 2021; 11Skopljanac I, Ivelja MP, Barcot O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442401>
 21. **COVID-19 lung infection segmentation with a novel two-stage cross-domain transfer learning framework.** *Med. Image Anal.* 2021; 74:102205Liu J, Dong B, Wang S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425317>

22. **[Cardiac magnetic resonance and follow up of professional soccer players recovering from COVID-19].** Medicina (B. Aires) 2021; 81:491-495 Pedro R, Argemi R, Batista J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453790>
23. **Lung ultrasound—noninvasive tool for the management of patients with respiratory symptoms in the emergency department during the SARS-CoV-2 pandemic.** Medizinische Klinik - Intensivmedizin und Notfallmedizin 2021; Schmid B, Feuerstein D.
24. **(124)I-Iodo-DPA-713 Positron Emission Tomography in a Hamster Model of SARS-CoV-2 Infection.** Mol. Imaging Biol. 2021:1-9 Ruiz-Bedoya CA, Mota F, Ordonez AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424479>
25. **Modeling a deep transfer learning framework for the classification of COVID-19 radiology dataset.** PeerJ Comput Sci 2021; 7:e614 Fayemiwo MA, Olowookere TA, Arekete SA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435093>
26. **Is chest X-ray severity scoring for COVID-19 pneumonia reliable?** Pol J Radiol 2021; 86:e432-e439 Abo-Hedibah SA, Tharwat N, Elmokadem AH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429790>
27. **Rubidium-82 PET/CT in COVID-19.** Radiol Case Rep 2021; de Burgt AV, Smit F, Anten S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422149>
28. **Pseudocavitation Sign at Chest CT Scan due to COVID-19 Pneumonia: A report of Five Cases and Literature Review.** Radiol Case Rep 2021; Kosem EG, Balik R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422146>
29. **The diagnostic value of chest X-ray in coronavirus disease 2019: A comparative study of X-ray and CT.** Sci. Prog. 2021; 104:368504211016204 Zeng F, Cai Y, Guo Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424791>
30. **Pulmonary COVID-19: Learning Spatiotemporal Features Combining CNN and LSTM Networks for Lung Ultrasound Video Classification.** Sensors (Basel) 2021; 21 Barros B, Lacerda P, Albuquerque C, Conci A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450928>
31. **Explainable Artificial Intelligence for Bias Detection in COVID CT-Scan Classifiers.** Sensors (Basel) 2021; 21 Palatnik de Sousa I, Vellasco M, Costa da Silva E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451100>
32. **Precise Segmentation of COVID-19 Infected Lung from CT Images Based on Adaptive First-Order Appearance Model with Morphological/Anatomical Constraints.** Sensors (Basel) 2021; 21 Sharafelddeen A, Elsharkawy M, Alghamdi NS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450923>
33. **Computer-aided detection of COVID-19 from CT scans using an ensemble of CNNs and KSVM classifier.** Signal Image Video Process 2021:1-8 Abraham B, Nair MS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422120>
34. **Hybrid intelligent model for classifying chest X-ray images of COVID-19 patients using genetic algorithm and neutrosophic logic.** Soft comput 2021:1-16 Basha SH, Anter AM, Hassanien AE, Abdalla A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421342>
35. **Deep transfer learning for COVID-19 detection and infection localization with superpixel based segmentation.** Sustain Cities Soc 2021; 75:103252 Prakash NB, Murugappan M, Hemalakshmi GR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422549>
36. **Diagnostic Imaging in Newborns, Children and Adolescents Infected with Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): Is There a Realistic Alternative to Lung High-Resolution Computed Tomography (HRCT)**

and Chest X-Rays? A Systematic Review of the Literature. Ultrasound Med. Biol. 2021; Caroselli C, Blaivas M, Falzetti S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429231>

Immune response (90 articles)

1. **Lymphopenia and IgG2 subclass deficiency in patients with severe COVID-19 pneumonia.** Afr J Thorac Crit Care Med 2021; 27Taban EM, Tintinger GR, Joseph D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430865>
2. **Neutralization of SARS-CoV-2 requires antibodies against conformational receptor-binding domain epitopes.** Allergy 2021; Gattinger P, Niespodziana K, Stiasny K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453317>
3. **COVID-19 vaccine use in immunocompromised patients: A commentary on evidence and recommendations.** Am. J. Health Syst. Pharm. 2021; Duly K, Farraye FA, Bhat S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455440>
4. **Prevalence of SARS-CoV-2 IgG antibodies in health care workers at a tertiary care academic medical center - An assessment of occupational infection risk.** Am. J. Infect. Control 2021; 49:1158-1161Forster D, Lin N, Levens J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454683>
5. **A framework for monitoring population immunity to SARS-CoV-2.** Ann. Epidemiol. 2021; Lopman BA, Shioda K, Nguyen Q *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425208>
6. **Antibody response to the Janssen/Johnson & Johnson SARS-CoV-2 vaccine in patients with rheumatic and musculoskeletal diseases.** Ann. Rheum. Dis. 2021; Chiang TP, Connolly CM, Ruddy JA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429320>
7. **Analysis of the dynamic relationship between immune profiles and the clinical features of patients with COVID-19.** Ann Transl Med 2021; 9:1118Ren P, Zhu C, He Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430559>
8. **Anticoronavirus and Immunomodulatory Phenolic Compounds: Opportunities and Pharmacotherapeutic Perspectives.** Biomolecules 2021; 11Dejani NN, Elshabrawy HA, Bezerra Filho C, de Sousa DP. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439920>
9. **Cytokine Storms in the Course of COVID-19 and Haemophagocytic Lymphohistiocytosis in Pregnant and Postpartum Women.** Biomolecules 2021; 11Obuchowska A, Standyło A, Obuchowska K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439868>
10. **Low Seroprevalence of SARS-CoV-2 in Rhode Island blood donors during may 2020 as determined using multiple serological assay formats.** BMC Infect. Dis. 2021; 21:871Nesbitt DJ, Jin DP, Hogan JW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433423>
11. **Comparative kinetics of SARS-CoV-2 anti-spike protein RBD IgGs and neutralizing antibodies in convalescent and naïve recipients of the BNT162b2 mRNA vaccine versus COVID-19 patients.** BMC Med 2021; 19:208Trogakos IP, Terpos E, Zirou C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420521>
12. **The Relationship between Dietary Inflammatory Index (DII) and Disease Severity and Inflammatory Status: A Case-Control Study of COVID-19 Patients.**

- Br. J. Nutr. 2021;1:24Moludi J, Alizadeh M, Jafari Vayghan H *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420546>
13. **Epidemiologic and clinical characteristics of multisystem inflammatory syndrome in adults: a rapid review.** Can. Commun. Dis. Rep. 2021; 47:305-315Atchessi N, Edjoc R, Striha M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421386>
 14. **Efficacy of the mRNA-Based BNT162b2 COVID-19 Vaccine in Patients with Solid Malignancies Treated with Anti-Neoplastic Drugs.** Cancers (Basel) 2021; 13Agbarya A, Sarel I, Ziv-Baran T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439346>
 15. **The Immune System Throws Its Traps: Cells and Their Extracellular Traps in Disease and Protection.** Cells 2021; 10Conceição-Silva F, Reis CSM, De Luca PM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440659>
 16. **Kinetics of Anti-SARS-CoV-2 Antibody Responses 3 Months Post Complete Vaccination with BNT162b2; A Prospective Study in 283 Health Workers.** Cells 2021; 10Terpos E, Trougakos IP, Karalis V *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440710>
 17. **Diagnostic Performance of SARS-CoV-2 Rapid Antigen Test in a Large, German Cohort.** Children (Basel) 2021; 8Mboma O, Rieke E, Ahmad-Nejad P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34438573>
 18. **Multiplex assessment of SARS-CoV-2 antibodies improves assay sensitivity and correlation with neutralizing antibodies.** Clin. Biochem. 2021; Cook N, Xu L, Hegazy S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453893>
 19. **Harmonization of six quantitative SARS-CoV-2 serological assays using sera of vaccinated subjects.** Clin Chim Acta 2021; 522:144-151Ferrari D, Clementi N, Span√≤ SM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425105>
 20. **Antibodies against type I interferon: detection and association with severe clinical outcome in COVID-19 patients.** Clin Transl Immunology 2021; 10:e1327Goncalves D, Mezidi M, Bastard P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429968>
 21. **Case Series of Clinical Findings of Multi-System Inflammatory Syndrome in Children in Contrast to Kawasaki Disease.** Cureus 2021; 13:e16446Aung HH, Nulman O, Nadroo I, Chhabra M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422477>
 22. **Diagnostic Properties of Three SARS-CoV-2 Antibody Tests.** Diagnostics (Basel) 2021; 11Basgalupp S, Dos Santos G, Bessel M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441375>
 23. **Characterization of the Diagnostic Performance of a Novel COVID-19 PETIA in Comparison to Four Routine N-, S- and RBD-Antigen Based Immunoassays.** Diagnostics (Basel) 2021; 11Spaeth A, Masetto T, Brehm J *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441268>
 24. **Evolution of antibody responses up to 13 months after SARS-CoV-2 infection and risk of reinfection.** EBioMedicine 2021; 71:103561Gallais F, Gantner P, Bruel T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455390>
 25. **Clinical Assessment of the DiaSorin LIAISON SARS-CoV-2 Ag Chemiluminescence Immunoassay.** Ejifcc 2021; 32:216-223Salvagno GL, Gianfilippi G, Fiorio G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421491>
 26. **Prevalence of SARS-CoV-2 Antibodies after First 6 Months of COVID-19 Pandemic, Portugal.** Emerg Infect Dis 2021; 27Canto ECL, Pereira AHG, Ribeiro R

et al. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437830>

27. **Correlation of SARS-CoV-2 Subgenomic RNA with Antigen Detection in Nasal Midturbinate Swab Specimens.** *Emerg Infect Dis* 2021; 27:Immergluck K, Gonzalez MD, Frediani JK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424838>
28. **Seroprevalence of SARS-CoV-2-Specific Antibodies among Quarantined Close Contacts of COVID-19 Patients, Faroe Islands, 2020.** *Emerg Infect Dis* 2021; 27:Petersen MS, Kristiansen MF, Reinert HW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437829>
29. **SARS-CoV-2-reactive T cell receptors isolated from convalescent COVID-19 patients confer potent T cell effector function.** *Eur. J. Immunol.* 2021; Brunk F, Moritz A, Nelde A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424997>
30. **Acute encephalitis in pediatric multisystem inflammatory syndrome associated with COVID-19.** *Eur. J. Paediatr. Neurol.* 2021; 34:84-90Olivotto S, Basso E, Lavatelli R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425479>
31. **Age-dependent seroprevalence of SARS-CoV-2 antibodies in school-aged children from areas with low and high community transmission.** *Eur. J. Pediatr.* 2021;1-8Boey L, Roelants M, Merckx J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455523>
32. **Antibody Response to SARS-CoV-2 Membrane Protein in Patients of the Acute and Convalescent Phase of COVID-19.** *Front. Immunol.* 2021; 12:679841Jvðrrivüen P, Schv^otz P, Weiand M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421894>
33. **The Immunological Factors Predisposing to Severe Covid-19 Are Already Present in Healthy Elderly and Men.** *Front. Immunol.* 2021; 12:720090Kilic G, Bulut O, Jaeger M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434199>
34. **Update Advances on C-Reactive Protein in COVID-19 and Other Viral Infections.** *Front. Immunol.* 2021; 12:720363Luan YY, Yin CH, Yao YM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447386>
35. **Role of Th22 Cells in Human Viral Diseases.** *Front Med (Lausanne)* 2021; 8:708140Gong J, Zhan H, Liang Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434945>
36. **Case Report: Mitral Valve Involvement and First-Degree Atrial-Ventricular Block in Two Patients With Multisystem Inflammatory Syndrome in Children.** *Front Pediatr* 2021; 9:676934Di Filippo P, Raso M, Cacciatore M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422717>
37. **Acute Kidney Injury in Pediatric Acute SARS-CoV-2 Infection and Multisystem Inflammatory Syndrome in Children (MIS-C): Is There a Difference?** *Front Pediatr* 2021; 9:692256Grewal MK, Gregory MJ, Jain A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434905>
38. **Harnessing immunological targets for COVID-19 immunotherapy.** *Future Virol.* 2021; Mehata AK, Viswanadh MK, Priya V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447458>
39. **Live imaging of SARS-CoV-2 infection in mice reveals that neutralizing antibodies require Fc function for optimal efficacy.** *Immunity* 2021; Ullah I, Prévost J, Ladinsky MS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453881>
40. **Sequential Profiling of Anti-SARS CoV-2 IgG Antibody in Post COVID-19 Patients.** *Indian J. Clin. Biochem.* 2021;1-7Sukumaran A, Thomas RE, Krishnan RA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421232>

41. **Relevance of immune response and vaccination strategies of SARS-CoV-2 in the phase of viral red queen dynamics.** *Indian J. Med. Microbiol.* 2021; Jacob JJ, John Fletcher G, Monisha Priya T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454775>
42. **Performance of Qualitative and Quantitative Antigen Tests for SARS-CoV-2 Using Saliva.** *Infect Dis Rep* 2021; 13:742-747 Yokota I, Sakurazawa T, Sugita J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449650>
43. **Seroconversion Following SARS-CoV-2 Infection or Vaccination in Pediatric IBD Patients.** *Inflamm. Bowel Dis.* 2021; Spencer EA, Klang E, Dolinger M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427638>
44. **Current scenario of COVID-19 vaccinations and immune response along with antibody titer in vaccinated inhabitants of different countries.** *Int Immunopharmacol* 2021; 99:108050 Hussain A, Rafeeq H, Asif HM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426120>
45. **Induction of SARS-CoV-2-Specific IgG and IgA in Serum and Milk with Different SARS-CoV-2 Vaccines in Breastfeeding Women: A Cross-Sectional Study in Northern Spain.** *Int J Environ Res Public Health* 2021; 18 Lechosa-Muñiz C, Paz-Zulueta M, Mendez-Legaza JM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444579>
46. **The strength of association between pre- and post-booster BNT162b2 anti-SARS-CoV-2 antibodies levels depends on the immunoassay.** *Int J Infect Dis* 2021; Salvagno GL, Henry BM, Lippi G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455083>
47. **Multisystem Inflammatory Syndrome (MIS): a multicentre retrospective review of adults and adolescents in South Africa.** *Int J Infect Dis* 2021; van Heerden J, Nel J, Moodley P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428544>
48. **Iterated Virtual Screening-Assisted Antiviral and Enzyme Inhibition Assays Reveal the Discovery of Novel Promising Anti-SARS-CoV-2 with Dual Activity.** *Int J Mol Sci* 2021; 22 Hamdy R, Fayed B, Mostafa A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445763>
49. **Adaptive Immunity and the Risk of Autoreactivity in COVID-19.** *Int J Mol Sci* 2021; 22 Moody R, Wilson K, Flanagan KL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445670>
50. **CIDO ontology updates and secondary analysis of host responses to COVID-19 infection based on ImmPort reports and literature.** *J. Biomed. Semantics* 2021; 12:18 Huffman A, Masci AM, Zheng J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454610>
51. **The autoimmune signature of hyperinflammatory multisystem inflammatory syndrome in children.** *J. Clin. Invest.* 2021; Porritt RA, Binek A, Paschold L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437303>
52. **Diagnostic Accuracy of Rapid Antigen Test Kits for Detecting SARS-CoV-2: A Systematic Review and Meta-Analysis of 17,171 Suspected COVID-19 Patients.** *J Clin Med* 2021; 10 Khandker SS, Nik Hashim NHH, Deris ZZ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441789>
53. **Severe Lymphopenia as a Predictor of COVID-19 Mortality in Immunosuppressed Patients.** *J Clin Med* 2021; 10 Martínez-Urbistondo M, Gutiérrez-Rojas Á, Andrés A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441891>

54. **Six-month interim analysis of ongoing immunogenicity surveillance of the mRNA-1273 vaccine in healthcare workers: A third dose is expected.** J Infect 2021; Tré-Hardy M, Cupaiolo R, Wilmet A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34437927>
55. **Time-course evaluation of the quantitative antigen test for severe acute respiratory syndrome coronavirus 2: The potential contribution to alleviating isolation of COVID-19 patients.** J Infect Chemother 2021; Nomoto H, Yamamoto K, Yamada G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454833>
56. **Critically ill COVID-19 patients exhibit hyperactive cytokine responses associated with effector exhausted senescent T cells in acute infection.** J Infect Dis 2021; Arcanjo A, Pinto KG, Logullo J *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427670>
57. **An Overview on the Epidemiology and Immunology of COVID-19.** J Infect Public Health 2021; Meskini M, Rezghi Rami M, Maroofi P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420903>
58. **SARS-CoV-2 N-antigenemia in critically ill adult COVID-19 patients: Frequency and association with inflammatory and tissue-damage biomarkers.** J Med Virol 2021; Olea B, Albert E, Torres I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449894>
59. **Evidence of Long-Lasting Humoral and Cellular Immunity against SARS-CoV-2 Even in Elderly COVID-19 Convalescents Showing a Mild to Moderate Disease Progression.** Life (Basel) 2021; 11 Fischer B, Lindenkamp C, Lichtenberg C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440549>
60. **Performance of Antigen-Based Testing as Frontline Diagnosis of Symptomatic COVID-19.** Medicina (Kaunas) 2021; 57 Murillo-Zamora E, Trujillo X, Huerta M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441058>
61. **Effects of Steroids and Tocilizumab on the Immune Response Profile of Patients with COVID-19-Associated ARDS Requiring or Not Veno-Venous Extracorporeal Membrane Oxygenation.** Membranes (Basel) 2021; 11 Fanelli V, Montrucchio G, Sales G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436366>
62. **Sars-CoV-2 Virus Infection May Interfere CD34+ Hematopoietic Stem Cells and Megakaryocyte-Erythroid Progenitors Differentiation Contributing to Platelet Defection towards Insurgence of Thrombocytopenia and Thrombophilia.** Microorganisms 2021; 9 Balzanelli MG, Distratis P, Dipalma G *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34442710>
63. **Impact of Age and Sex on Antibody Response Following the Second Dose of COVID-19 BNT162b2 mRNA Vaccine in Greek Healthcare Workers.** Microorganisms 2021; 9 Vassilaki N, Gargalionis AN, Bletsas A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34442806>
64. **Patterns of negative seroconversion in ongoing surveys of SARS-CoV-2 antibodies among workers in New York's largest healthcare system.** Occup. Environ. Med. 2021; Sembajwe G, Rasul R, Jacobs Y *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433658>
65. **[Relevant immunologic markers in COVID-19].** Pan Afr. Med. J. 2021; 39:40 Admou B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422163>
66. **Implementation of Adenovirus-Mediated Pulmonary Expression of Human ACE2 in HLA Transgenic Mice Enables Establishment of a COVID-19 Murine Model for Assessment of Immune Responses to SARS-CoV-2 Infection.**

- Pathogens 2021; 10Chitlaru T, Bar-Haim E, Bar-On L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451403>
67. **Recombinant SARS-CoV-2 Nucleocapsid Protein: Expression, Purification, and Its Biochemical Characterization and Utility in Serological Assay Development to Assess Immunological Responses to SARS-CoV-2 Infection.** Pathogens 2021; 10Di D, Dileepan M, Ahmed S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451501>
 68. **Acute Inflammatory Mediators in Young Adult Patients with COVID-19 in Mexico.** Pathogens 2021; 10Maldonado-Cabrera A, Angulo-Molina A, Haque U *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451520>
 69. **SARS-CoV-2 persistence in immunocompromised children.** Pediatr Blood Cancer 2021:e29277Dolan SA, Mulcahy Levy J, Moss A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453477>
 70. **Pharmacists' Perceptions and Drivers of Immunization Practices for COVID-19 Vaccines: Results of a Nationwide Survey Prior to COVID-19 Vaccine Emergency Use Authorization.** Pharmacy (Basel) 2021; 9Jacob SS, Bridgeman MB, Kim H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449708>
 71. **Multisystem inflammatory syndrome after SARS-CoV-2 vaccination (MIS-V), to interpret with caution.** Postgrad. Med. J. 2021; Iyengar KP, Nune A, Ish P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446448>
 72. **Profound Treg perturbations correlate with COVID-19 severity.** Proc Natl Acad Sci U S A 2021; 118Galván-Peña S, Leon J, Chowdhary K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433692>
 73. **COVID-19 and fertility-at the crossroads of autoimmunity and thrombosis.** Rheumatol. Int. 2021;1-10Tariq J, Chatterjee T, Andreoli L, Gupta L.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34455463>
 74. **Positive anti-SARS-CoV-2 rapid serological test results among asymptomatic blood donors.** Transfus. Clin. Biol. 2021; Arabkhazaeli A, Maghsudlu M, Mohammadi S, Eshghi P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428567>
 75. **Can we turn off the "Covid-biting-tail" inflammation?** Transl Med UniSa 2020; 23:39-41Valentina G, Amelia F, Carmine S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447711>
 76. **Antibody Responses to Natural SARS-CoV-2 Infection or after COVID-19 Vaccination.** Vaccines (Basel) 2021; 9Altawalah H.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452035>
 77. **Heterologous ChAdOx1 nCoV-19/BNT162b2 Prime-Boost Vaccination Induces Strong Humoral Responses among Health Care Workers.** Vaccines (Basel) 2021; 9Benning L, Töllner M, Hidmark A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451982>
 78. **A Glimpse into the Diverse Cellular Immunity against SARS-CoV-2.** Vaccines (Basel) 2021; 9Chang CW, Liu Y, Jiao C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451952>
 79. **Factors Affecting the Antibody Immunogenicity of Vaccines against SARS-CoV-2: A Focused Review.** Vaccines (Basel) 2021; 9Cheng ZJ, Xue M, Zheng P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451994>
 80. **Early Serological Response to BNT162b2 mRNA Vaccine in Healthcare Workers.** Vaccines (Basel) 2021; 9Cocomazzi G, Piazzolla V, Squillante MM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452038>

81. **Analysis of Host Immunological Response of Adenovirus-Based COVID-19 Vaccines.** *Vaccines (Basel)* 2021; 9Farhang-Sardroodi S, Korosec CS, Gholami S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451985>
82. **Risk Factors Associated with the Clinical Outcomes of COVID-19 and Its Variants in the Context of Cytokine Storm and Therapeutics/Vaccine Development Challenges.** *Vaccines (Basel)* 2021; 9Hanna J, Tipparaju P, Mulherkar T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452063>
83. **Age- and Sex-Graded Data Evaluation of Vaccination Reactions after Initial Injection of the BNT162b2 mRNA Vaccine in a Local Vaccination Center in Germany.** *Vaccines (Basel)* 2021; 9Hoffmann MA, Wieler HJ, Enders P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452036>
84. **Severe COVID-19 by SARS-CoV-2 Lineage B.1.1.7 in Vaccinated Solid-Organ Transplant Recipients: New Preventive Strategies Needed to Protect Immunocompromised Patients.** *Vaccines (Basel)* 2021; 9Loconsole D, Stea ED, Sallustio A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451931>
85. **Usefulness of IVD Kits for the Assessment of SARS-CoV-2 Antibodies to Evaluate the Humoral Response to Vaccination.** *Vaccines (Basel)* 2021; 9Lukaszuk K, Kiewisz J, Rozanska K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451965>
86. **Characterization of a Lineage C.36 SARS-CoV-2 Isolate with Reduced Susceptibility to Neutralization Circulating in Lombardy, Italy.** *Viruses* 2021; 13Castelli M, Baj A, Criscuolo E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452380>
87. **Coronavirus Pseudotypes for All Circulating Human Coronaviruses for Quantification of Cross-Neutralizing Antibody Responses.** *Viruses* 2021; 13Sampson AT, Heeney J, Cantoni D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452443>
88. **Elicitation of Broadly Neutralizing Antibodies against B.1.1.7, B.1.351, and B.1.617.1 SARS-CoV-2 Variants by Three Prototype Strain-Derived Recombinant Protein Vaccines.** *Viruses* 2021; 13Yang Y, Zang J, Xu S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452287>
89. **Chemiluminescence Immunoassay Based Serological Immunoassays for Detection of SARS-CoV-2 Neutralizing Antibodies in COVID-19 Convalescent Patients and Vaccinated Population.** *Viruses* 2021; 13Yin Q, Zhang Y, Lian L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452373>
90. **Cytokine storm syndrome in SARS-CoV-2: a review.** *Z Naturforsch C J Biosci* 2021; Wahid B, Rani N, Idrees M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428364>

Management miscellaneous diseases (92 articles)

1. **First wave of COVID-19 impact on emergency general surgery in a Spanish tertiary hospital. A cohort study.** *Acta Chir. Belg.* 2021;1-7Bernal Tirapo J, Yuste García P, Moreno Bagueiras A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445925>
2. **Infection Control in Anesthesia.** *Anesthesiologie Intensivmedizin Notfallmedizin Schmerztherapie* 2021; 56:474-484Bonsignore M, Nachtigall I.
3. **Virtual clinics in foot and ankle surgery: patient and clinician perceptions.** *Ann. R. Coll. Surg. Engl.* 2021; Rhind JH, Devany A, Ramhamadany E *et al.*

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34432532>

4. **Correspondence on "Associations of baseline use of biologic or targeted synthetic DMARDs with COVID-19 severity in rheumatoid arthritis: results from the COVID-19 Global Rheumatology Alliance physician registry" by Sparks et al.** Ann. Rheum. Dis. 2021; Gremese E, Ferraccioli G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426399>
5. **Message from the new EULAR President and Steering Group.** Ann. Rheum. Dis. 2021; Iagnocco A, Aletaha D, Baraliakos X, McInnes IB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446430>
6. **Response to: Correspondence on "Associations of baseline use of biologic or targeted synthetic DMARDs with COVID-19 severity in rheumatoid arthritis" by Sparks et al.** Ann. Rheum. Dis. 2021; Wallace ZS, Sparks JA, Robinson PC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426400>
7. **Antibiotics Prescribing in Intensive Care Settings during the COVID-19 Era: A Systematic Review.** Antibiotics (Basel) 2021; 10Abu-Rub LI, Abdelrahman HA, Johar AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438985>
8. **Antimicrobial Consumption among 66 Acute Care Hospitals in Catalonia: Impact of the COVID-19 Pandemic.** Antibiotics (Basel) 2021; 10Grau S, Hernández S, Echeverría-Esnal D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438993>
9. **Paradigm Shift in Antimicrobial Resistance Pattern of Bacterial Isolates during the COVID-19 Pandemic.** Antibiotics (Basel) 2021; 10Saini V, Jain C, Singh NP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439004>
10. **COVID-19 Response Unites Perioperative Teams at a Recently Merged Health Care System.** AORN J. 2021; 114:231-240Larkin BG, Mahal-van-Brenk C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436772>
11. **The Delivery of Orthopaedic Care midst COVID-19 and Social Distancing.** Arch Bone Jt Surg 2021; 9:371-378Kellish AS, Hakim A, Shahi A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423083>
12. **The Impact of COVID-19 on Neck of Femur Fracture Care: A Major Trauma Centre Experience, United Kingdom.** Arch Bone Jt Surg 2021; 9:453-460Lim JA, Thahir A, Amar Korde V, Krkovic M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423096>
13. **Management of anaphylaxis in children undergoing oral food challenges in an adapted COVID-19 field hospital.** Arch. Dis. Child. 2021; Al Saleemi A, Farren L, McCarthy KF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433551>
14. **COVID-19 Shuts Doors to Flu but Keeps Them Open to Rhinoviruses.** Biology (Basel) 2021; 10Kiseleva I, Ksenafontov A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439965>
15. **Infection of a sylvian Galassi II arachnoid cyst after craniotomy for resection of a parasagittal meningioma.** BMJ Case Rep. 2021; 14Christodoulides I, Syrris C, Lavrador JP, Chandler C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426424>
16. **Haemophilus parainfluenzae endocarditis presenting with symptoms of COVID-19.** BMJ Case Rep. 2021; 14Finch LC, Gerdzhikov S, Buttery R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433540>
17. **COVID-19 lockdown measures induced severe iron-deficiency anaemia resulting in central retinal vein occlusion and amenorrhea.** BMJ Case Rep. 2021; 14Kwan YH, Woong NL, Foo RCM, Balakrishnan T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429287>

18. **Evaluation of the early adverse effects of radiotherapy in breast cancer patients with COVID-19: Prospective single institutional study.** Breast J 2021; Allali S, Servois V, Beddok A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435418>
19. **Changes in breast cancer screening rates among 32 community health centers during the COVID-19 pandemic.** Cancer 2021; Fedewa SA, Cotter MM, Wehling KA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436765>
20. **Creating a healthy community after the pandemic: Reinvigorating routine cancer screening with community support systems.** Cancer 2021; Wilke LG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436764>
21. **A Multicenter Analysis of the Outcome of Cancer Patients with Neutropenia and COVID-19 Optionally Treated with Granulocyte-Colony Stimulating Factor (G-CSF): A Comparative Analysis.** Cancers (Basel) 2021; 13:Sereno M, Jimenez-Gordo AM, Baena-Espinar J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439359>
22. **Effect of the COVID-19 Outbreak on Pediatric Patients' Admissions to the Emergency Department in an Italian Orthopedic Trauma Hub.** Children (Basel) 2021; 8:Verdoni F, Ricci M, Di Grigoli C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438536>
23. **Management and Outcome of Coronavirus Disease 2019 (COVID-19) in Pediatric Cancer Patients: A Single Centre Experience from a Developing Country.** Clin. Lymphoma Myeloma Leuk. 2021; Hammad M, Shalaby L, Sidhom I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420893>
24. **Changes in Retina Practice Patterns During the COVID-19 Pandemic in the Philippines.** Clin. Ophthalmol. 2021; 15:3493-3504 Bromeo AJ, Grulla-Quilendrino P, Lerit SJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429581>
25. **Impact of the COVID-19 Outbreak on Orthopedic Surgery: A Nationwide Analysis of the First Pandemic Year.** Cureus 2021; 13:e17252 Barahona M, Infante CA, Palet MJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422505>
26. **COVID-19 in Saudi Patients With Sickle Cell Disease: A Retrospective Multi-Center Study.** Cureus 2021; 13:e17238 Kashari O, Alghamdi B, Al-Hebshi A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422504>
27. **Infection Prevention and Antimicrobial Stewardship Program Collaboration During the COVID-19 Pandemic: a Window of Opportunity.** Curr. Infect. Dis. Rep. 2021; 23:15 Assi M, Abbas S, Nori P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426728>
28. **Evaluating the Impact of the COVID-19 Pandemic on New Cancer Diagnoses and Oncology Care in Manitoba.** Curr. Oncol. 2021; 28:3081-3090 Decker KM, Lambert P, Feely A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436035>
29. **A Cross-Sectional Survey Exploring the Impact of the COVID-19 Pandemic on the Cancer Care of Adolescents and Young Adults.** Curr. Oncol. 2021; 28:3201-3213 Howden K, Glidden C, Romanescu RG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436044>
30. **Lessons Learned in Managing Patients with Colorectal Cancer During the COVID-19 Pandemic.** Curr. Treat. Options Oncol. 2021; 22:93 Mukherji R, Marshall JL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424418>
31. **The New Normalcy in Dentistry after the COVID-19 Pandemic: An Italian Cross-Sectional Survey.** Dent J (Basel) 2021; 9:Salgarello S, Salvadori M, Mazzoleni F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435998>

32. **Epilepsy care during the COVID-19 pandemic.** Epilepsia 2021; Cross JH, Kwon CS, Asadi-Pooya AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428314>
33. **Psychogenic nonepileptic seizures during the COVID-19 pandemic in New York City - A distinct response from the epilepsy experience.** Epilepsy Behav. 2021; 123:108255Rosengard JL, Ferastraoar V, Donato J, Haut SR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428617>
34. **Commentary: Management of Intractable Pain in Patients With Implanted Spinal Cord Stimulation Devices During the COVID-19 Pandemic Using a Remote and Wireless Programming System.** Front. Neurosci. 2021; 15:696830Dario A, Frigerio G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421521>
35. **Disappearance of Seasonal Respiratory Viruses in Children Under Two Years Old During COVID-19 Pandemic: A Monocentric Retrospective Study in Milan, Italy.** Front Pediatr 2021; 9:721005Ippolito G, La Vecchia A, Umbrello G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422733>
36. **Resilience-Focused HIV Care to Promote Psychological Well-Being During COVID-19 and Other Catastrophes.** Front Public Health 2021; 9:705573Brown LL, Martin EG, Knudsen HK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422749>
37. **The Implications on Future Ophthalmic Care During and Post-COVID-19.** Front Public Health 2021; 9:653708Fan Q, Wang H, Kong W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422740>
38. **Thyroid cancer surgery during the coronavirus disease 2019 pandemic: perioperative management and oncological and anatomical considerations.** Future Oncol 2021; Spartalis E, Plakopitis N, Theodori MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431326>
39. **Phacoemulsification and nucleic acid-enriched aerosol: considerations from an eye model of cataract simulation.** Graefes Arch Clin Exp Ophthalmol 2021; 1-7Cacciamani A, Scarinci F, Bruno L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436645>
40. **Perceptions and Preventive Practices Regarding COVID-19 Pandemic Outbreak and Oral Health Care Perceptions during the Lockdown: A Cross-Sectional Survey from Saudi Arabia.** Healthcare (Basel) 2021; 9Alassaf A, Almulhim B, Alghamdi SA, Mallineni SK. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442094>
41. **Use of donor-specific red blood cell transfusions for patients undergoing liver transplantation during the COVID-19 pandemic.** Hepatobiliary Surg Nutr 2021; 10:486-497Lv T, Xu X, Song J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430527>
42. **Clinical Dermatology and COVID-19 Pandemic: Narrative Review.** Indian J. Dermatol. 2021; 66:246-255Mintoff D, Chatterjee M, Podder I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446947>
43. **Procedural Dermatology during COVID-19 Pandemic.** Indian J. Dermatol. 2021; 66:256-263Sinha A, Neema S, Vasudevan B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446948>
44. **Variable Duration of Viral Shedding in Cancer Patients with COVID-19.** Infect Control Hosp Epidemiol 2021; 1-15Babady NE, Cohen B, McClure T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446121>
45. **Change in patterns of hospitalization for influenza during COVID-19 surges.** Influenza Other Respir Viruses 2021; Venkatram S, Alapati A, Dileep A, Diaz-

Fuentes G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427056>

46. **The Effect of the COVID-19 Pandemic on Total Hip and Knee Arthroplasty Surgical Volume in 2020 in Poland.** Int J Environ Res Public Health 2021; 18Czubak-Wrzosek M, Czubak J, Grzelecki D, Tyrakowski M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444581>
47. **Delivery of Health Care by Spanish Dental Hygienists in Private and Public Dental Services during the COVID-19 De-Escalation Phase (June 2020): A Cross-Sectional Study.** Int J Environ Res Public Health 2021; 18Expósito-Delgado AJ, Ausina-Márquez V, Mateos-Moreno MV *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444048>
48. **The Impact of COVID-19 Pandemic in Portuguese Cancer Patients: A Retrospective Study.** Int J Environ Res Public Health 2021; 18Lima A, Sousa H, Nobre A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444302>
49. **Process Improvement Approaches for Increasing the Response of Emergency Departments against the COVID-19 Pandemic: A Systematic Review.** Int J Environ Res Public Health 2021; 18Ortíz-Barrios MA, Coba-Blanco DM, Alfaro-Saíz JJ, Stand-González D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444561>
50. **Future Challenges for Physical Therapy during and after the COVID-19 Pandemic: A Qualitative Study on the Experience of Physical Therapists in Spain.** Int J Environ Res Public Health 2021; 18Palacios-Ceña D, Fernández-de-Las-Peñas C, Florencio LL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444118>
51. **Impact of COVID-19 on medical treatment patterns in gynecologic oncology: a MITO group survey.** Int. J. Gynecol. Cancer 2021; Cioffi R, Sabetta G, Rabaiotti E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426526>
52. **Neurosurgery in octogenarians during the COVID-19 pandemic: Results from a tertiary care trauma centre.** Interdiscip Neurosurg 2021; 26:101357Agyemang K, Rose A, Baig S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426782>
53. **Feasibility of a yoga, aerobic and stretching-toning exercise program for adult cancer survivors: the STAYFit trial.** J. Cancer Surviv. 2021;1-10Gothé NP, Erlenbach E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455545>
54. **D-Dimer Levels Are Not Elevated in SARS-CoV-2 IgG Positive Patients Undergoing Elective Orthopedic Surgery.** J Clin Med 2021; 10Jungwirth-Weinberger A, Oezel L, Morgenstern R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441803>
55. **Oral Health and Teledentistry Interest during the COVID-19 Pandemic.** J Clin Med 2021; 10Sycinska-Dziarnowska M, Maglitta M, Woźniak K, Spagnuolo G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441828>
56. **Effect of COVID-19 Lockdown in Spain on Structural and Functional Outcomes of Neovascular AMD Patients.** J Clin Med 2021; 10Valverde-Megías A, Rego-Lorca D, Fernández-Vigo JI *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441845>
57. **Special Considerations in the Management of Autoimmune Hepatitis in COVID-19 Hotspots: A Review.** J Clin Transl Hepatol 2021; 9:568-575Madhu D, Sharma S, Agarwal A, Saraya A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447687>
58. **Liver Transplantation Services During the Time of COVID-19.** J Clin Transl Hepatol 2021; 9:587-591Patel P, Pillai A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447689>

59. **The impact of COVID-19 on cardio-oncology care in Taiwan.** J Formos Med Assoc 2021; Kang NW, Feng YH, Chen ZC, Chang WT.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454797>
60. **Risk factors in pediatric hospitalization for influenza A and B during the seven seasons immediately before the COVID-19 era in Japan.** J Infect Chemother 2021; Shinjoh M, Furuichi M, Narabayashi A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454832>
61. **Impact of the COVID-19 pandemic on the incidence of dengue fever in Peru.** J Med Virol 2021; Plasencia-Deñás R, Failoc-Rojas VE, Rodriguez-Morales AJ.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34436792>
62. **Knowledge and Apprehension of Dental Health Professionals Pertaining to COVID in Southern India: A Questionnaire Study.** J. Pharm. Bioallied Sci. 2021; 13:S448-s451Izma, Sasank Kuntamukkula VK, Khanna SS *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447131>
63. **Knowledge, Perception, and Attitude on Conservative and Endodontic Practice on COVID Pandemic Situation: A Qualitative Research.** J. Pharm. Bioallied Sci. 2021; 13:S353-s358Khatore S, Kathuria S, Rawat MK *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447108>
64. **Adaptations for rehabilitation services during the covid-19 pandemic proposed by scientific organizations and rehabilitation professionals.** J Rehabil Med 2021; Lugo-Agudelo LH, Cruz Sarmiento KM, Spir Brunal MA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427688>
65. **Impact of COVID-19 pandemic on lower urinary tract symptoms in patients with benign prostatic hyperplasia and predictors of urine retention in such patients.** Low Urin Tract Symptoms 2021; Nabeeh H, Ibrahim A, Taha DE *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435456>
66. **Mortality Following Hip Fracture Surgery During COVID-19 Pandemic Compared to Pre-COVID-19 Period: A Case Matched Cohort Series.** Malays Orthop J 2021; 15:107-114De C, Harbham PK, Postoyalko C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429830>
67. **A Comparison of Diagnosed Skin Diseases between the Years with and without COVID-19 Pandemic.** Medicina (Kaunas) 2021; 57Roongpisuthipong W, Yodla P, Klangjareonchai T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440978>
68. **Impact of the COVID-19 Pandemic on the Patient's Decision about Bariatric Surgery: Results of a National Survey.** Medicina (Kaunas) 2021; 57Walędziak M, Róžańska-Walędziak A, Bartnik P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440962>
69. **[Prevention of infections by influenza virus and respiratory syncytial virus after removal of the lockdown measures].** Monatsschr Kinderheilkd 2021;1-3Huppertz HI, Kopp MV, Hv^obner J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421128>
70. **Prevention of infections by influenza virus and respiratory syncytial virus after removal of the lockdown measures: Joint statement of the German Society for Pediatric Infectious Diseases (DGPI) and the Society for Pediatric Pneumology (GPP).** Monatsschr. Kinderheilkd. 2021; Huppertz HI, Kopp MV, Hübner J.
71. **Performing Bariatric Surgery on Previously COVID+ Patients Is Safe and Effective.** Obes. Surg. 2021;1-3Cheung MS, Ying L, Duffy AJ *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453312>

72. **Prevalence of Self-Reported Symptoms of Computer Vision Syndrome and Associated Risk Factors among School Students in China during the COVID-19 Pandemic.** Ophthalmic Epidemiol. 2021:1-11Li R, Ying B, Qian Y *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433364>
73. **Impact of the COVID-19 pandemic on surgical practice, training, and research in Nigeria.** Pan Afr. Med. J. 2021; 39:59Tolani MA, Fidelis L, Oyelowo N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422182>
74. **Recreational behaviour, risk perceptions, and protective practices against ticks: a cross-sectional comparative study before and during the lockdown enforced by the COVID-19 pandemic in Romania.** Parasit Vectors 2021; 14:423Borșoan SD, Trif SR, Mihalca AD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425905>
75. **Psychological distress in primary caregivers of children with cancer during COVID-19 pandemic-A single tertiary care center experience.** Psychooncology 2021; Cheriyaalinkal Parambil B, Goswami S, Roy Moulik N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435720>
76. **Multiple cranial nerve palsies revealing blast crisis in patient with chronic myeloid leukemia in the accelerated phase under nilotinib during severe infection with SARS-COV-19 virus: Case report and review of literature.** Radiol Case Rep 2021; Bouchlarhem A, Haddar L, Lamzouri O *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422148>
77. **Managing ANCA-associated vasculitis during the COVID-19 pandemic: results from an online survey.** Rheumatol. Int. 2021:1-7Kopp CR, Naidu G, Misra DP *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427760>
78. **The impact of the COVID-19 pandemic on patients with primary Sjögren syndrome.** Rheumatol. Int. 2021:1-8Serban A, Mihai A, Dima A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453578>
79. **Outcomes of COVID-19 in patients with rheumatoid arthritis: A multicenter research network study in the United States.** Semin. Arthritis Rheum. 2021; 51:1057-1066Raiker R, DeYoung C, Pakhchanian H *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34450504>
80. **Epidemiological trends in notified syphilis diagnoses during the COVID-19 pandemic in Brazil.** Sex. Transm. Infect. 2021; Maia CMF, Marques NP, Dias VO *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429386>
81. **Privacy Preserving Association Rule Mining on Distributed Healthcare Data: COVID-19 and Breast Cancer Case Study.** SN Comput Sci 2021; 2:418Domadiya N, Rao UP. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423316>
82. **Cancer Patient Management during COVID-19 Pandemic: An Audit of a Single-Surgeon Unit in a COVID-Hotspot.** South Asian J Cancer 2021; 10:39-41Busheri L, Nare S, Banale R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430517>
83. **Caring for Cancer Patients during Corona Pandemic-(COVID-19)-A Narrative Review.** South Asian J Cancer 2021; 10:19-22Pratapa SK, Acharya S, Mamidipalli SS, Andhale A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430514>
84. **Unhealthy Opioid Use and COVID-19 Mortality Incidence in Older Adults: A Multicenter Research Network Study.** Subst. Use Misuse 2021:1-5Wiener RC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429022>
85. **The emotional impact of the COVID-19 outbreak on cancer outpatients and their caregivers: results of a survey conducted in the midst of the Italian**

- pandemic.** *Support. Care Cancer* 2021;1-11Cona MS, Rulli E, Dalu D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34432171>
86. **Cost-effectiveness of bariatric and metabolic surgery, and implications of COVID-19 in the United Kingdom.** *Surg. Obes. Relat. Dis.* 2021; Galvain T, Patel S, Kabiri M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452846>
 87. **Bariatric Surgery is Safe for Patients After Recovery from COVID-19.** *Surg. Obes. Relat. Dis.* 2021; Vosburg RW, Pratt JSA, Kindel T *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446386>
 88. **Botulinum Toxin Services for Neurorehabilitation: Recommendations for Challenges and Opportunities during the COVID-19 Pandemic.** *Toxins (Basel)* 2021; 13Bavikatte G, Jacinto J, Deltombe T, Wissel J.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34437456>
 89. **Effect of social isolation in dengue cases in the state of Sao Paulo, Brazil: An analysis during the COVID-19 pandemic.** *Travel Med Infect Dis* 2021; 44:102149Conceição GMS, Barbosa GL, Lorenz C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34455075>
 90. **Protecting clinical trials in cystic fibrosis during the SARS-CoV-2 pandemic: risks and mitigation measures.** *Trials* 2021; 22:578van Koningsbruggen-Rietschel S, Dunlevy F, Bulteel V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454570>
 91. **Impact of COVID-19 on Tuberculosis Case Detection and Treatment Outcomes in Sierra Leone.** *Trop Med Infect Dis* 2021; 6Lakoh S, Jiba DF, Baldeh M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449755>
 92. **[Acceptance of video consultation among patients with inflammatory rheumatic diseases depends on gender and location-Results of an online survey among patients and physicians].** *Z. Rheumatol.* 2021;1-5Vossen D, Knitza J, Klemm P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448915>

Management (47 articles)

1. **Correspondence on "Associations of baseline use of biologic or targeted synthetic DMARDs with COVID-19 severity in rheumatoid arthritis: results from the COVID-19 Global Rheumatology Alliance physician registry" by Sparks et al.** *Ann. Rheum. Dis.* 2021; Gremese E, Ferraccioli G.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34426399>
2. **Response to: Correspondence on "Associations of baseline use of biologic or targeted synthetic DMARDs with COVID-19 severity in rheumatoid arthritis" by Sparks et al.** *Ann. Rheum. Dis.* 2021; Wallace ZS, Sparks JA, Robinson PC *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34426400>
3. **Antibiotic Use and Fatal Outcomes among Critically Ill Patients with COVID-19 in Tacna, Peru.** *Antibiotics (Basel)* 2021; 10Copaja-Corzo C, Hueda-Zavaleta M, Benites-Zapata VA, Rodriguez-Morales AJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439009>
4. **The COVID-19 pandemic: the effect on airway Management in non-COVID emergency patients.** *BMC Emerg. Med.* 2021; 21:97Ruangsomboon O, Boonmee P, Nimmannit A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454416>
5. **Is home pulse oximeter monitoring for COVID-19 feasible in low-income and low-middle-income countries?** *BMJ Health Care Inform* 2021; 28Rijal S, Poudel B.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446427>

6. **Helmet Non-Invasive Ventilation for COVID-19 Patients (Helmet-COVID): study protocol for a multicentre randomised controlled trial.** BMJ Open 2021; 11:e052169Arabi YM, Tlayjeh H, Aldekhyl S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446500>
7. **Nurses' experiences of caring for people with COVID-19 in Hong Kong: a qualitative enquiry.** BMJ Open 2021; 11:e052683Chau JPC, Lo SHS, Saran R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426473>
8. **Novel 3D printable powered air purifying respirator for emergency use during PPE shortage of the COVID-19 pandemic: a study protocol and device safety analysis.** BMJ Open 2021; 11:e049605Nagel J, Gilbert C, Duchesne J.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446492>
9. **Telehealth: The role of respiratory therapists during the COVID-19 emergency.** Can J Respir Ther 2021; 57:119-120Sawadkar MM, Nayak VR.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447881>
10. **Thromboprophylaxis in Patients with COVID-19: Systematic Review of National and International Clinical Guidance Reports.** Curr. Vasc. Pharmacol. 2021; Kyriakoulis KG, Kollias A, Kyriakoulis IG *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34431465>
11. **Cerebral venous sinus thrombosis after COVID-19 vaccination : Neurological and radiological management.** Der Radiologe 2021; Walter U, Volmer E, Wittstock M *et al.*
12. **A practical guidance on the use of intravenous insulin infusion for management of inpatient hyperglycemia: Intravenous Insulin Infusion for Management of Inpatient Hyperglycemia.** Diabetes Metab Syndr 2021; 15:102244Goyal A, Mathew UE, Golla KK *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425556>
13. **SARS-CoV-2 reinfection in a healthcare professional in inner Sao Paulo during the first wave of COVID-19 in Brazil.** Diagn. Microbiol. Infect. Dis. 2021; 101:115516Camargo CH, Gonçalves CR, Pagnoca E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425504>
14. **Adaptation of ED design layout during the COVID-19 pandemic: a national cross-sectional survey.** Emerg Med J 2021; Douillet D, Saloux T, Ravon P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429371>
15. **The role of GLP-1 receptor agonists during COVID-19 pandemic: a hypothetical molecular mechanism.** Expert Opin. Drug Saf. 2021:1-7Banerjee Y, Pantea Stoian A, Silva-Nunes J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424130>
16. **Work climate in pandemic times: which burdens do German physicians in primary care report?** Fam. Pract. 2021; Mause L, Hoffmann J, Ohnhäuser T *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448474>
17. **Case Report: Prolonged VV-ECMO (111 Days) Support in a Patient With Severe COVID-19.** Front Med (Lausanne) 2021; 8:681548Xu Z, Xu Y, Liu D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422856>
18. **When Nurses Become Patients. Validation of the Content of the Diagnostic Label Professional Traumatic Grief.** Healthcare (Basel) 2021; 9Gilart E, Lepiani I, Núñez MJC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442219>
19. **The Clinical Characteristics of Fever-Ward Pediatric Patients with a Definite Epidemiological History During the Early COVID-19 Epidemic Period.** Infect

- Drug Resist 2021; 14:3175-3181 Song W, Li J, Zou N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429617>
20. **Association of Healthy Diet with Recovery Time from COVID-19: Results from a Nationwide Cross-Sectional Study.** Int J Environ Res Public Health 2021; 18:Alamri FF, Khan A, Alshehri AO *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443997>
 21. **China's Successful Recruitment of Healthcare Professionals to the Worst-Hit City: A Lesson Learned.** Int J Environ Res Public Health 2021; 18:Zhu P, Liu X, Wu Q *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444486>
 22. **Missed nursing care in hospital environments during the COVID-19 pandemic.** Int Nurs Rev 2021; Gurková E, Mikšová Z, Šáteková L.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433226>
 23. **High Exhaustion in Geriatric Healthcare Professionals During the COVID-19 Second-Ł Lockdown.** J. Alzheimers Dis. 2021; El Haj M, Allain P, Annweiler C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420971>
 24. **High-Flow Nasal Cannula Oxygenation in Older Patients with SARS-CoV-2-Related Acute Respiratory Failure.** J Clin Med 2021; 10:Hacquin A, Perret M, Manckoundia P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441811>
 25. **The Quality of Medical Care in the Conditions of the COVID-19 Pandemic, with Particular Emphasis on the Access to Primary Healthcare and the Effectiveness of Treatment in Poland.** J Clin Med 2021; 10:Kludacz-Alessandri M, Walczak R, Hawrysz L, Korneta P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441798>
 26. **A catalogue of tools and variables from crisis and routine care to support decision-making about allocation of intensive care beds and ventilator treatment during pandemics: Scoping review.** J Crit Care 2021; 66:33-43 Cardona M, Dobler CC, Koreshe E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438132>
 27. **Rooibos, a supportive role to play during the COVID-19 pandemic?** J. Funct. Foods 2021; 86:104684 Sheik Abdul N, Marnewick JL.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422116>
 28. **Detection of Pneumocystis jirovecii in Patients with Severe COVID-19: Diagnostic and Therapeutic Challenges.** J Fungi (Basel) 2021; 7:Gerber V, Ruch Y, Chamaraux-Tran TN *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436124>
 29. **Role of Nursing Home Quality on COVID-19 Cases and Deaths: Evidence from Florida Nursing Homes.** J Gerontol Soc Work 2021; 1-17 Wang X, Wilson C, Holmes K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435929>
 30. **Combined Percutaneous Tracheostomy and Endoscopic Gastrostomy Tubes in COVID-19: A Prospective Series of Patient Outcomes.** J. Intensive Care Med. 2021; 8850666211038875 Oberg CL, Keyes C, Panchabhai TS *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34424096>
 31. **COVID-19: UK frontline intensivists' emerging learning.** J Intensive Care Soc 2021; 22:211-213 Montgomery H, Rehill N, Camporota L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422103>
 32. **Different approach to medical decision-making in difficult circumstances: Kittay's Ethics of Care.** J. Med. Ethics 2021; Butchart L, Krumenacker K, Baig A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34426518>
 33. **Outpatient Management of COVID-19 Disease: A Holistic Patient-Centered Proposal Based on the Greek Experience.** J Pers Med 2021; 11:Liapikou A,

- Tzortzaki E, Hillas G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442353>
34. **Superiority of Mild Interventions against COVID-19 on Public Health and Economic Measures.** J Pers Med 2021; 11Niwa M, Hara Y, Matsuo Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442363>
 35. **Eight Weeks Unsupervised Pulmonary Rehabilitation in Previously Hospitalized of SARS-CoV-2 Infection.** J Pers Med 2021; 11Stavrou VT, Tourlakopoulos KN, Vavougios GD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442450>
 36. **Tracheostomy for COVID-19 respiratory failure: timing, ventilatory characteristics, and outcomes.** J Thorac Dis 2021; 13:4137-4145Farlow JL, Park PK, Sjoding MW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422343>
 37. **Association of Pre-Hospital Antiplatelet Therapy with Survival in Patients Hospitalized with COVID-19: A Propensity Score-Matched Analysis.** J Thromb Haemost 2021; Chow JH, Yin Y, Yamane DP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455688>
 38. **A hospital-wide response to multiple outbreaks of COVID-19 in health care workers: lessons learned from the field.** Med. J. Aust. 2021; Egerton-Warburton D, Kuhn L, Flynn D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423459>
 39. **Update on: SARS-CoV-2/COVID-19—epidemiology and prevention.** Nephrologie 2021; 16:307-310Salzberger B, Buder F, Lampl B *et al.*
 40. **Oxygen Sparing Effect of Bacteriotherapy in COVID-19.** Nutrients 2021; 13Ceccarelli G, Marazzato M, Celani L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445055>
 41. **Assessment of factors affecting practice towards COVID-19 among health care workers in health care facility of West Guji Zone, South Ethiopia, 2020.** Pan Afr. Med. J. 2021; 39:53Adola SG, Degavi G, Edwin SEK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422176>
 42. **Lung Fibrosis after COVID-19: Treatment Prospects.** Pharmaceuticals (Basel) 2021; 14Bazdyrev E, Rusina P, Panova M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451904>
 43. **A cross-sectional questionnaire study in a phototherapy unit during COVID-19.** Photochem Photobiol Sci 2021;1-4Costa FB, Baptista PL, Duquia RP. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449079>
 44. **Nebulization with alkaline hipertonic ibuprofen induces a rapid increase in platelets circulating in COVID-19 patients but not in healthy subjects.** Platelets 2021;1-8Salva O, Alasino R, Giller C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423724>
 45. **On Development of MySignals based prototype for application in health vitals monitoring.** Wirel Pers Commun 2021;1-18Saif S, Saha R, Biswas S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426717>
 46. **COVID-19 pandemic, as experienced in the surgical service of a district hospital in Spain.** World J Clin Cases 2021; 9:6582-6590Pérez Lara FJ, Jimenez Martinez MB, Pozo Muñoz F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447807>
 47. **Management of the COVID-19 Pandemic in the Republic of Korea from the Perspective of Governance and Public-Private Partnership.** Yonsei Med. J. 2021; 62:777-791Kim W, Jung TY, Roth S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427063>

Mental – public health (197 articles)

1. **Sexual activities during the COVID-19 pandemic in Indonesia.** *Afr J Urol* 2021; 27:116Kusuma AHW, Brodjonegoro SR, Soerohardjo I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421293>
2. **Change in Perceived Stress and Health Behaviors of Emerging Adults in the Midst of the COVID-19 Pandemic.** *Ann. Behav. Med.* 2021; LaCaille LJ, Hooker SA, Marshall E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453507>
3. **Health-promoting behaviors in the United States during the early stages of the COVID-19 pandemic.** *Appetite* 2021; 168:105659Cummings JR, Wolfson JA, Gearhardt AN. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437925>
4. **Trait self-control and disinhibited eating in COVID-19: The mediating role of perceived mortality threat and negative affect.** *Appetite* 2021; 167:105660Li Q, Xiang G, Song S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425147>
5. **Character strengths intervention for nurturing well-being among Pakistan's university students: A mixed-method study.** *Appl Psychol Health Well Being* 2021; Green ZA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431238>
6. **Suicide Risk and Prevention During the COVID-19 Pandemic: One Year On.** *Arch Suicide Res* 2021;1-6Sinyor M, Knipe D, Borges G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425066>
7. **Fatigue, perceived stigma, self-reported cognitive deficits and psychological morbidity in patients recovered from COVID-19 infection.** *Asian J Psychiatr* 2021; 64:102815Grover S, Sahoo S, Mishra E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455354>
8. **Emergency department visits for psychiatric care during the first lockdown in Melbourne.** *Australas Psychiatry* 2021:10398562211037329Jagadheesan K, Danivas V, Itrat A, Lakra V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428986>
9. **An assessment of psychological distress and professional burnout in mental health professionals in Australia during the COVID-19 pandemic.** *Australas Psychiatry* 2021:10398562211038906Northwood K, Siskind D, Suetani S, McArdle PA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428987>
10. **COVID-19 risk: Adult Medicaid beneficiaries with autism, intellectual disability, and mental health conditions.** *Autism* 2021:13623613211039662Schott W, Tao S, Shea L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420427>
11. **Analyzing Predictors of Control Measures and Psychosocial Problems Associated with COVID-19 Pandemic: Evidence from Eight Countries.** *Behav Sci (Basel)* 2021; 11Jony SSR, Haque U, Webb NJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436096>
12. **Psychological distress among Ethiopian migrant returnees who were in quarantine in the context of COVID-19: institution-based cross-sectional study.** *BMC Psychiatry* 2021; 21:424Habtamu K, Desie Y, Asnake M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433430>
13. **Provider perspectives on the provision of safe, equitable, trauma-informed care for intimate partner violence survivors during the COVID-19 pandemic: a qualitative study.** *BMC Womens Health* 2021; 21:315Williams EE, Arant KR, Leifer VP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452616>
14. **Organising knowledge to prevent global health crises: a comparative analysis of pandemic preparedness indicators.** *BMJ Glob Health* 2021; 6Kentikelenis A, Seabrooke L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429299>

15. **What symptoms best predict severe distress in an online survey of UK health and social care staff facing COVID-19: development of the two-item Tipping Point Index.** *BMJ Open* 2021; 11:e047345Brewin CR, Bloomfield MAP, Billings J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452960>
16. **Impact of the COVID-19 pandemic on unmet healthcare needs in Seoul, South Korea: a cross-sectional study.** *BMJ Open* 2021; 11:e045845Kim J, You M, Shon C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446482>
17. **Emotional states and coping methods in nursing and non-nursing students responding to COVID-19: a cross-sectional study in China.** *BMJ Open* 2021; 11:e054007Miao Q, Xie L, Xing B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446505>
18. **UK veterans' mental health and well-being before and during the COVID-19 pandemic: a longitudinal cohort study.** *BMJ Open* 2021; 11:e049815Sharp ML, Serfioti D, Jones M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452965>
19. **Long COVID and the mental and physical health of children and young people: national matched cohort study protocol (the CLoCk study).** *BMJ Open* 2021; 11:e052838Stephenson T, Shafran R, De Stavola B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446502>
20. **Mental health in the pandemic: a repeated cross-sectional mixed-method study protocol to investigate the mental health impacts of the coronavirus pandemic in the UK.** *BMJ Open* 2021; 11:e046422Van Bortel T, John A, Solomon S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452957>
21. **Sibling conflict during COVID-19 in families with special educational needs and disabilities.** *Br. J. Educ. Psychol.* 2021:e12451Toseeb U. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423422>
22. **Parental Stress and Disability in Offspring: A Snapshot during the COVID-19 Pandemic.** *Brain Sci* 2021; 11Siracusano M, Riccioni A, Gialloreti LE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439660>
23. **Insomnia, Anxiety, and Depression Symptoms during the COVID-19 Pandemic May Depend on the Pre-Existent Health Status Rather than the Profession.** *Brain Sci* 2021; 11Wańkowicz P, Szylińska A, Rotter I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439620>
24. **Loneliness during the first wave of the SARS-CoV-2 pandemic-results of the German National Cohort (NAKO).** *Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz* 2021; Berger K, Riedel-Heller S, Pabst A *et al.*
25. **Longitudinal Relations Between Parental Strain, Parent-Child Relationship Quality, and Child Well-Being During the Unfolding COVID-19 Pandemic.** *Child Psychiatry Hum. Dev.* 2021:1-17Essler S, Christner N, Paulus M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426893>
26. **Alliance Between Therapist and Multi-stressed Families During the COVID-19 Pandemic: The Effect of Family-Based Videoconferencing.** *Child Youth Care Forum* 2021:1-19Lange AMC, Delsing M, van Geffen M, Scholte RHJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421286>
27. **Public Health Interventions for COVID-19 Reduce Kawasaki Disease in Taiwan.** *Children (Basel)* 2021; 8Yang YL, Kuo HC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438515>
28. **Psychogenic fever due to worry about COVID-19: A case report.** *Clin Case Rep* 2021; 9:e04560Imataki O, Uemura M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438515>

term=34429986

29. **A Reflection on Special Challenges and Amending Pedagogy in Clinical Social Work Practice Courses During the COVID-19 Pandemic.** Clin. Soc. Work J. 2021;1-8Wohlsifer DB, Suttner LP, Park J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421151>
30. **Making US poison centers a part of the solution to the COVID-19 pandemic.** Clin. Toxicol. (Phila.) 2021;1-13Spyker DA, Bronstein AC, Weber JA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448649>
31. **Mask Mandates and COVID-19 Related Symptoms in the US.** Clinicoecon Outcomes Res 2021; 13:757-766Nguyen M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429625>
32. **The role of social support, detachment, and depressive and anxiety symptoms in suicidal thoughts and behaviours during the Covid-19 lockdown: Potential pathways.** Curr. Psychol. 2021;1-12Gabarrell-Pascuet A, Félez-Nóbrega M, Cristóbal-Narváez P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429573>
33. **Exploring the experience of Gamblers Anonymous meetings during COVID-19: a qualitative study.** Curr. Psychol. 2021;1-14Penfold KL, Ogden J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421284>
34. **Relations between anxiety sensitivity's cognitive concerns and anxiety severity: brooding and reflection as serial multiple mediators.** Curr. Psychol. 2021;1-7Yang H, Zhao X, Fang J, Elhai JD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426723>
35. **Public health offices and COVID-19: Customized mitigation interventions.** Deutsches Arzteblatt International 2021; 118:A704-A708Wagner C, Krutz B, Zintel A *et al.*
36. **Real-Time Genomics for Tracking Severe Acute Respiratory Syndrome Coronavirus 2 Border Incursions after Virus Elimination, New Zealand.** Emerg Infect Dis 2021; 27:2361-2368Douglas J, Geoghegan JL, Hadfield J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424164>
37. **Policy Review and Modeling Analysis of Mitigation Measures for Coronavirus Disease Epidemic Control, Health System, and Disease Burden, South Korea.** Emerg Infect Dis 2021; 27Kim HY, Oh IH, Lee J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429188>
38. **A Community-Adapted Approach to SARS-CoV-2 Testing for Medically Underserved Populations, Rhode Island, USA.** Emerg Infect Dis 2021; 27:2445-2449Murphy M, Dhrolia I, Zanolwick-Marr A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424174>
39. **SARS-CoV-2 in a stream running through an underprivileged, underserved, urban settlement in São Paulo, Brazil: A 7-month follow-up.** Environ Pollut 2021; 290:118003Pepe Razzolini MT, Funada Barbosa MR, Silva de Araújo R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425371>
40. **Psychological distress across intersections of race/ethnicity, gender, and marital status during the COVID-19 pandemic.** Ethn. Health 2021;1-20Hearne BN. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431730>
41. **The association between COVID-19 related stressors and mental health in refugees living in Australia.** Eur J Psychotraumatol 2021; 12:1947564Liddell BJ, O'Donnell M, Bryant RA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434532>
42. **Neuropsychiatric Aspects of COVID-19 - A Narrative Overview.** Fortschritte der Neurologie Psychiatrie 2021; Rittmannsberger H, Barth M, Malik P, Yazdi K.

43. **Subacute Cognitive Impairment in Individuals With Mild and Moderate COVID-19: A Case Series.** *Front. Neurol.* 2021; 12:678924 Matos AMB, Dahy FE, de Moura JVL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421788>
44. **COVID-19 Syndemic, Government, and Impact on Mental Health: A Brazilian Reality.** *Front Psychiatry* 2021; 12:671449 Córdido EL, Gonçalves Junior J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421668>
45. **Association Between Future Orientation and Anxiety in University Students During COVID-19 Outbreak: The Chain Mediating Role of Optimization in Primary-Secondary Control and Resilience.** *Front Psychiatry* 2021; 12:699388 Chen Y, Xu H, Liu C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421680>
46. **Prevalence, Risk Factors, and Clinical Correlates of Insomnia in China College Student During the COVID-19.** *Front Psychiatry* 2021; 12:694051 Yu C, Li X, Qi G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421678>
47. **Gender Differences in Fear and Risk Perception During the COVID-19 Pandemic.** *Front. Psychol.* 2021; 12:689467 Alsharawy A, Spoon R, Smith A, Ball S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421741>
48. **Religious Affiliation, Daily Spirituals, and Private Religious Factors Promote Marital Commitment Among Married Couples: Does Religiosity Help People Amid the COVID-19 Crisis?** *Front. Psychol.* 2021; 12:657400 Aman J, Abbas J, Lela U, Shi G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421712>
49. **Family Life in Lockdown.** *Front. Psychol.* 2021; 12:687570 Biroli P, Bosworth S, Della Giusta M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421738>
50. **COVID-19-Fear Affects Current Safety Behavior Mediated by Neuroticism-Results of a Large Cross-Sectional Study in Germany.** *Front. Psychol.* 2021; 12:671768 Fink M, Büsserle A, Schmidt K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421728>
51. **Financial and Mental Health Concerns of Impoverished Urban-Dwelling Bangladeshi People During COVID-19.** *Front. Psychol.* 2021; 12:663687 Islam MS, Rahman ME, Banik R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421719>
52. **"It All Makes Us Feel Together": Young People's Experiences of Virtual Group Music-Making During the COVID-19 Pandemic.** *Front. Psychol.* 2021; 12:703892 Levstek M, Barnby RM, Pocock KL, Banerjee R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421756>
53. **Social Isolation, Loneliness and Well-Being: The Impact of WeChat Use Intensity During the COVID-19 Pandemic in China.** *Front. Psychol.* 2021; 12:707667 Li J, Zhou L, Van Der Heijden B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447340>
54. **Work-Life Balance of the Employed Population During the Emergency Situation of COVID-19 in Latvia.** *Front. Psychol.* 2021; 12:682459 Lonska J, Mietule I, Litavniece L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421734>
55. **Supporting Team Reflexivity During the COVID-19 Lockdown: A Qualitative Study of Multi-Vision Groups In-person and Online.** *Front. Psychol.* 2021; 12:719403 Parrello S, Fenizia E, Gentile R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421770>
56. **The Relationship Between Perceived Stress and Subjective Cognitive Decline During the COVID-19 Epidemic.** *Front. Psychol.* 2021; 12:647971 Podlesek A, Komidar L, Kavcic V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421707>

57. **Infectious Disease Outbreak and Post-Traumatic Stress Symptoms: A Systematic Review and Meta-Analysis.** *Front. Psychol.* 2021; 12:668784 Qiu D, Li Y, Li L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421723>
58. **Effects of Coronavirus Fears on Anxiety and Depressive Disorder Symptoms in Clinical and Subclinical Adolescents: The Role of Negative Affect, Intolerance of Uncertainty, and Emotion Regulation Strategies.** *Front. Psychol.* 2021; 12:716528 Sandv n B, Espinosa V, Valiente RM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421767>
59. **Cultural Responses to Covid-19 Pandemic: Religions, Illness Perception, and Perceived Stress.** *Front. Psychol.* 2021; 12:634863 Ting RS, Aw Yong YY, Tan MM, Yap CK. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421700>
60. **Depression, Anxiety, and Suicidal Ideation in Chinese University Students During the COVID-19 Pandemic.** *Front. Psychol.* 2021; 12:669833 Zhou SJ, Wang LL, Qi M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421725>
61. **Psychosocial Factors Associated With Resilience Among Iranian Nurses During COVID-19 Outbreak.** *Front Public Health* 2021; 9:714971 Afshari D, Nourollahi-Darabad M, Chinisaz N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422753>
62. **Public Opinion and Expectations: Development of Public Health Education in China After COVID-19 Pandemic.** *Front Public Health* 2021; 9:702146 Shen X, Li J, Dong T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447736>
63. **Preexisting Mental Disorders Increase the Risk of COVID-19 Infection and Associated Mortality.** *Front Public Health* 2021; 9:684112 Wang Y, Yang Y, Ren L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434913>
64. **Compliance With Protective Behavioral Recommendations in the Outbreak of COVID-19 Among People Working in the Urban-Based Informal Economy in Southern Ethiopia.** *Front Public Health* 2021; 9:716814 Zewude B, Melese B, Habtegiorgis T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422754>
65. **Early Surveillance and Public Health Emergency Responses Between Novel Coronavirus Disease 2019 and Avian Influenza in China: A Case-Comparison Study.** *Front Public Health* 2021; 9:629295 Zhang T, Wang Q, Wang Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447733>
66. **Dementia Caregiver Virtual Support-An Implementation Evaluation of Two Pragmatic Models during COVID-19.** *Geriatrics (Basel)* 2021; 6 Weems JA, Rhodes S, Powers JS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449649>
67. **High death anxiety and ambiguous loss: Lessons learned from teaching through the COVID-19 pandemic.** *Gerontol. Geriatr. Educ.* 2021; 1-12 Weaver R, Bolkan C, Decker A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425067>
68. **Destigmatizing public health concerns and supply of COVID-19 vaccines.** *Health Mark. Q.* 2021; 1-7 Akeel S, Bleibel F, Hale G, Khanfar NM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420472>
69. **The experience of the COVID-19 pandemic for families of infants involved with Child Protection Services for maltreatment concerns.** *Health Soc Care Community* 2021; Fogarty A, Jones A, Evans K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435399>
70. **The experience of delayed health care access during the COVID 19 pandemic in Australian women: A mixed methods exploration.** *Health Soc Care Community* 2021; White J, Cavenagh D, Byles J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423499>

71. **Associations between Personality Traits, Intolerance of Uncertainty, Coping Strategies, and Stress in Italian Frontline and Non-Frontline HCWs during the COVID-19 Pandemic-A Multi-Group Path-Analysis.** Healthcare (Basel) 2021; 9Bongelli R, Canestrari C, Fermani A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442223>
72. **Recent Trends in Sedentary Time: A Systematic Literature Review.** Healthcare (Basel) 2021; 9Fang H, Jing Y, Chen J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442106>
73. **The Chinese Government's Response to the Pandemic: Measures, Dynamic Changes, and Main Patterns.** Healthcare (Basel) 2021; 9He Y, Li M, Zhong Q *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442157>
74. **Performance, Health, and Psychological Challenges Faced by Students of Physical Education in Online Learning during COVID-19 Epidemic: A Qualitative Study in China.** Healthcare (Basel) 2021; 9Laar RA, Ashraf MA, Ning J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442167>
75. **Assessing the Impact of Social Media Use on Everyday Emotion in Health Crises: A Study of International Students in China during COVID-19.** Healthcare (Basel) 2021; 9Larnyo E, Dai B, Nutakor JA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442148>
76. **Who Is the Most Vulnerable to Anxiety at the Beginning of the COVID-19 Outbreak in China? A Cross-Sectional Nationwide Survey.** Healthcare (Basel) 2021; 9Liu B, Han B, Zheng H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442107>
77. **Psychosocial Well-Being of Patients with Kidney Failure Receiving Haemodialysis during a Pandemic: A Survey.** Healthcare (Basel) 2021; 9McKeaveney C, Noble H, Carswell C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442224>
78. **Healthcare Safety Nets during the COVID-19 Pandemic Based on Double Diamond Model: A Concept Analysis.** Healthcare (Basel) 2021; 9Park BM, Lee HJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442151>
79. **Self-Perception of Quality of Life and Emotional Well-Being among Students Attending Hospital Classrooms during COVID-19 Pandemic.** Healthcare (Basel) 2021; 9Riera-Negre L, Paz-Lourido B, Negre F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442080>
80. **The lived experiences of family members of Covid-19 patients admitted to intensive care unit: A phenomenological study.** Heart Lung 2021; 50:926-932Bartoli D, Trotta F, Simeone S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428738>
81. **Psychological impacts during the COVID-19 outbreak among adult population in Jordan: A cross-sectional study.** Heliyon 2021; 7:e07826Al-Shannaq Y, Mohammad AA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426796>
82. **Comparative report of compliance to precautionary measures against COVID-19 in Nigeria and Jordan.** Heliyon 2021; 7:e07793Al-Shattarat B, Amuda YJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423147>
83. **An international study on psychological coping during COVID-19: Towards a meaning-centered coping style.** Int. J. Clin. Health Psychol. 2022; 22:100256Eisenbeck N, Carreno DF, Wong PTP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429729>

84. **Impact of COVID-19 on psychological wellbeing.** Int. J. Clin. Health Psychol. 2021; 21:100252Zhao Q, Sun X, Xie F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429728>
85. **An Evaluation of the Psychological Impact of Covid-19 and the Precautionary Measure of Social Isolation on Adults in the Asir Region, Saudi Arabia.** Int J Clin Pract 2021:e14756Kandasamy G, Almaghaslah D, Almanasef M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449951>
86. **Six Cs of pandemic emergency management: A case study of Taiwan's initial response to the COVID-19 pandemic.** Int J Disaster Risk Reduct 2021; 64:102516Liu LY, Wu WN, McEntire DA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426781>
87. **Psychosocial Health of K-12 Students Engaged in Emergency Remote Education and In-Person Schooling: A Cross-Sectional Study.** Int J Environ Res Public Health 2021; 18Acosta D, Fujii Y, Joyce-Beaulieu D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444312>
88. **Distancing Adherence and Negative Emotions among the Israeli Elderly Population during the COVID-19 Pandemic.** Int J Environ Res Public Health 2021; 18Bord S, Schor A, Satran C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444515>
89. **Will Nothing Be the Same Again?: Changes in Lifestyle during COVID-19 Pandemic and Consequences on Mental Health.** Int J Environ Res Public Health 2021; 18Caroppo E, Mazza M, Sannella A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444180>
90. **Psychological Impact of the COVID-19 Pandemic on Licensed Full-Time Practicing Nurses Undertaking Part-Time Studies in Higher Education: A Cross-Sectional Study.** Int J Environ Res Public Health 2021; 18Chan SL, Takemura N, Chau PH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444322>
91. **Effective COVID-19 Control: A Comparative Analysis of the Stringency and Timeliness of Government Responses in Asia.** Int J Environ Res Public Health 2021; 18Chen S, Guo L, Alghaith T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444434>
92. **Women Suffered More Emotional and Life Distress than Men during the COVID-19 Pandemic: The Role of Pathogen Disgust Sensitivity.** Int J Environ Res Public Health 2021; 18Ding Y, Yang J, Ji T, Guo Y. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444288>
93. **Post-Lockdown Effects on Students' Mental Health in Romania: Perceived Stress, Missing Daily Social Interactions, and Boredom Proneness.** Int J Environ Res Public Health 2021; 18Dumitrache L, Stănculescu E, Nae M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444348>
94. **Morale and Perceived Threats as Predictors of Psychological Coping with Distress in Pandemic and Armed Conflict Times.** Int J Environ Res Public Health 2021; 18Eshel Y, Kimhi S, Marciano H, Adini B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444505>
95. **Study on Multi-Agent Evolutionary Game of Emergency Management of Public Health Emergencies Based on Dynamic Rewards and Punishments.** Int J Environ Res Public Health 2021; 18Fan R, Wang Y, Lin J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444028>
96. **The Impact of U.S. Housing Type and Residential Living Situations on Mental Health during COVID-19.** Int J Environ Res Public Health 2021; 18Ghimire J,

- Carswell AT, Ghimire R, Turner PR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444031>
97. **Burnout of Physicians, Pharmacists and Nurses in the Course of the COVID-19 Pandemic: A Serbian Cross-Sectional Questionnaire Study.** [Int J Environ Res Public Health](#) 2021; 18Jakovljevic B, Stojanovic K, Nikolic Turnic T, Jakovljevic VL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444476>
 98. **Predictors of Mental Health Outcomes in Grocery Store Workers amid the COVID-19 Pandemic and Implications for Workplace Safety and Moral Injury.** [Int J Environ Res Public Health](#) 2021; 18Janson M, Sharkey JD, Del Cid DA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444423>
 99. **Changes in Adolescents' Psychosocial Functioning and Well-Being as a Consequence of Long-Term COVID-19 Restrictions.** [Int J Environ Res Public Health](#) 2021; 18Kerekes N, Bador K, Sfindla A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444502>
 100. **The Early Stage of the COVID-19 Outbreak in Tunisia, France, and Germany: A Systematic Mapping Review of the Different National Strategies.** [Int J Environ Res Public Health](#) 2021; 18Laffet K, Haboubi F, Elkadri N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444371>
 101. **Active Coping and Anxiety Symptoms during the COVID-19 Pandemic in Spanish Adults.** [Int J Environ Res Public Health](#) 2021; 18Lara R, Fernández-Daza M, Zabarain-Cogollo S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443989>
 102. **Mental Health and Personality Traits during COVID-19 in China: A Latent Profile Analysis.** [Int J Environ Res Public Health](#) 2021; 18Li M, Ahmed MZ, Hiramoni FA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444441>
 103. **Health Impact and Psychosocial Perceptions among French Medical Residents during the SARS-CoV-2 Outbreak: A Cross-Sectional Survey.** [Int J Environ Res Public Health](#) 2021; 18Lucas D, Brient S, Eveillard BM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444162>
 104. **Health-Related Quality of Life and Risk Factors among Chinese Women in Japan Following the COVID-19 Outbreak.** [Int J Environ Res Public Health](#) 2021; 18Luo Y, Sato Y. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444494>
 105. **Diabetes Related Distress in Children with Type 1 Diabetes before and during the COVID-19 Lockdown in Spring 2020.** [Int J Environ Res Public Health](#) 2021; 18Mianowska B, Fedorczak A, Michalak A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444274>
 106. **Behavioural Improvements in Children with Autism Spectrum Disorder after Participation in an Adapted Judo Programme Followed by Deleterious Effects during the COVID-19 Lockdown.** [Int J Environ Res Public Health](#) 2021; 18Morales J, Fukuda DH, Garcia V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444263>
 107. **Increase in Social Isolation during the COVID-19 Pandemic and Its Association with Mental Health: Findings from the JACSIS 2020 Study.** [Int J Environ Res Public Health](#) 2021; 18Murayama H, Okubo R, Tabuchi T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443988>
 108. **Traumatic Distress of COVID-19 and Depression in the General Population: Exploring the Role of Resilience, Anxiety, and Hope.** [Int J Environ Res Public Health](#) 2021; 18Nearchou F, Douglas E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444231>
 109. **COVID-19 at the Deep End: A Qualitative Interview Study of Primary Care Staff Working in the Most Deprived Areas of England during the COVID-19**

- Pandemic.** *Int J Environ Res Public Health* 2021; 18Norman C, Wildman JM, Sowden S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444437>
110. **The Impact of the COVID-19 Pandemic on Pregnant Women with Perinatal Anxiety Symptoms in Pakistan: A Qualitative Study.** *Int J Environ Res Public Health* 2021; 18Rauf N, Zulfiqar S, Mumtaz S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443987>
 111. **Changes in Depressive Symptoms, Stress and Social Support in Mexican Women during the COVID-19 Pandemic.** *Int J Environ Res Public Health* 2021; 18Rivera Rivera NY, McGuinn L, Osorio-Valencia E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444524>
 112. **"Hang in There!": Mental Health in a Sample of the Italian Civil Protection Volunteers during the COVID-19 Health Emergency.** *Int J Environ Res Public Health* 2021; 18Roncone R, Giusti L, Mammarella S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444336>
 113. **Korea's Early COVID-19 Response: Findings and Implications.** *Int J Environ Res Public Health* 2021; 18Ryu SK, Chung SG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444066>
 114. **Analysis of the Consequences of the COVID-19 Pandemic on People with Severe Mental Disorders.** *Int J Environ Res Public Health* 2021; 18Sánchez-Guarnido AJ, Hidalgo N, Arenas de la Cruz J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444298>
 115. **Impact of the COVID-19 Pandemic on the Mental Health of Nurses and Auxiliary Nursing Care Technicians-A Voluntary Online Survey.** *Int J Environ Res Public Health* 2021; 18Sánchez-Sánchez E, García-Álvarez J, García-Marín E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444060>
 116. **Three Versions of the Perceived Stress Scale: Psychometric Evaluation in a Nationally Representative Sample of Chinese Adults during the COVID-19 Pandemic.** *Int J Environ Res Public Health* 2021; 18She Z, Li D, Zhang W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444061>
 117. **Long-Term Impact of COVID-19 on Mental Health among the General Public: A Nationwide Longitudinal Study in China.** *Int J Environ Res Public Health* 2021; 18Shi L, Lu ZA, Que JY *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444539>
 118. **Psychosomatic Symptoms and Neuroticism following COVID-19: The Role of Online Aggression toward a Stigmatized Group.** *Int J Environ Res Public Health* 2021; 18Teng F, Wang X, Shi J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444420>
 119. **Psychometric Validation of the Arabic Fear of Illness and Virus Evaluation.** *Int J Environ Res Public Health* 2021; 18Tounsi A, Alammar S, Almaflehi N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444275>
 120. **Post-Traumatic Stress Disorder Symptoms among Journalists Repeatedly Covering COVID-19 News.** *Int J Environ Res Public Health* 2021; 18Tyson G, Wild J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444284>
 121. **The pathways from perceived discrimination to self-rated health among the Chinese diaspora during the COVID-19 pandemic: investigation of the roles of depression, anxiety, and social support.** *Int J Equity Health* 2021; 20:192Chen Y, Wang Z, Dong W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454508>
 122. **COVID-19 and mental health: Anxiety disorders among immigrants due to COVID-19 outbreak in South Korea.** *Int. J. Psychiatry Med.*

- 2021:912174211042695Acharya SR, Moon DH, Chun JH, Shin YC.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425688>
123. **COVID-19 with respect to occupational healthcare and public health services.** Internist 2021; 62:899-905Wicker S, Behrens P, Gottschalk R.
 124. **The Impact of Face Masks on the Emotional Reading Abilities of Children-A Lesson From a Joint School-University Project.** Ipception 2021; 12:20416695211038265Carbon CC, Serrano M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447567>
 125. **Assessment of antenatal anxiety, depression and obsessive-compulsive disorder in pregnant women in the COVID-19 era.** Ir. J. Psychol. Med. 2021:1-7Hinds C, Lindow SW, Abdelrahman M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433505>
 126. **Post-traumatic stress disorder (PTSD) in parents of children with type 1 diabetes during Covid-19 pandemic.** Ital. J. Pediatr. 2021; 47:176Carducci C, Rapini N, Deodati A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446073>
 127. **High Parental Education Protects Against Changes in Adolescent Stress and Mood Early in the COVID-19 Pandemic.** J. Adolesc. Health 2021; Collier Villaume S, Stephens JE, Nwafor EE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420820>
 128. **Risk Factors of Psychological Disorders After the COVID-19 Outbreak: The Mediating Role of Social Support and Emotional Intelligence.** J. Adolesc. Health 2021; Li N, Li S, Fan L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420819>
 129. **Early Adolescent Substance Use Before and During the COVID-19 Pandemic: A Longitudinal Survey in the ABCD Study Cohort.** J. Adolesc. Health 2021; 69:390-397Pelham WE, 3rd, Tapert SF, Gonzalez MR *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452728>
 130. **Gender-Specific Changes in Life Satisfaction After the COVID-19-Related Lockdown in Dutch Adolescents: A Longitudinal Study.** J. Adolesc. Health 2021; van der Laan SEI, Finkenauer C, Lenters VC *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446346>
 131. **How college students are coping with COVID-19: a qualitative study.** J. Am. Coll. Health 2021:1-9Park C, Zhang N, Madan N *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449287>
 132. **Freshmen anxiety and COVID-19: Practical implications from an online intervention for supporting students affected by health inequities.** J. Am. Coll. Health 2021:1-10Ray EC, Perko A, Oehme K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449301>
 133. **Impact of resilience on college student mental health during COVID-19.** J. Am. Coll. Health 2021:1-8Wattick RA, Hagedorn RL, Olfert MD.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448676>
 134. **The short-term effect of COVID-19 pandemic on disability, pain intensity, psychological status, and exercise habits in patients with chronic pain.** J. Anesth. 2021:1-8Fujiwara A, Watanabe K, Ida M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435236>
 135. **Predictors of Satisfaction with Autism Treatment Services During COVID-19.** J. Autism Dev. Disord. 2021:1-12Ferguson EF, Jimenez-Muñoz M, Feerst H, Vernon TW. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448995>
 136. **Experience of Autistic Children and Their Families During the Pandemic: From Distress to Coping Strategies.** J. Autism Dev. Disord. 2021:1-13Jacques C,

- Saulnier G, Éthier A, Soulières I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448994>
137. **Cognitive-behavioral therapy for adults with avoidant/restrictive food intake disorder.** *J Behav Cogn Ther* 2021; 31:47-55 Thomas JJ, Becker KR, Breithaupt L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423319>
 138. **Do Mental Health and Vitality Mediate the Relationship between Perceived Control over Time and Fear of COVID-19? A Survey in an Italian Sample.** *J Clin Med* 2021; 10 Miceli S, Caci B, Roccella M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441812>
 139. **Unpacking the Mental Health of Nurses during COVID-19: Evidence from Pakistan.** *J Clin Med* 2021; 10 Xu X, Manzoor F, Jiang S, Mumtaz A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441841>
 140. **Psychological distress of mental health workers during the COVID-19 pandemic: A comparison with the general population in high- and low-incidence regions.** *J. Clin. Psychol.* 2021; Brillon P, Philippe FL, Paradis A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453328>
 141. **Implication of COVID-19 on the mental health of Egyptian dermatologists: A cross-sectional study.** *J Cosmet Dermatol* 2021; Elsaie ML, Hasan MS, Zaky MS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423565>
 142. **Facility and Family Communication during the COVID-19 Visit Restriction: Early Perspectives of Family Members.** *J Gerontol Soc Work* 2021:1-12 Straker JK, Choi MS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420475>
 143. **Risk Factors Affecting Mental Health During The Early Stages Of The Covid-19 Pandemic In High-Risk 50+ Population In The Czech Republic.** *J Gerontol Soc Work* 2021:1-26 Vaculíková J, Hanková M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435934>
 144. **Practical strategies and the need for psychological support: recommendations from nurses working in hospitals during the COVID-19 pandemic.** *J Health Organ Manag* 2021; ahead-of-print Ralph J, Freeman LA, Ménard AD, Soucie K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455733>
 145. **Systematic Review on the Mental Health and Treatment Impacts of COVID-19 on Neurocognitive Disorders.** *J Pers Med* 2021; 11 Dellazizzo L, Léveillé N, Landry C, Dumais A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442390>
 146. **COVID-19-Related Anxiety among Dental Students in Two Dental Schools in Saudi Arabia.** *J. Pharm. Bioallied Sci.* 2021; 13:S826-s830 El Homossany M, Alrowaily GS, Allugmani WA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447209>
 147. **Knowledge, Attitude, and Psychological Effect on Undergraduate/ Postgraduate Students in Lockdown COVID-19 Situation.** *J. Pharm. Bioallied Sci.* 2021; 13:S696-s698 Verma SK, Kumar BD, Chandra S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447184>
 148. **Sociodemographic Determinants of COVID-19 Vaccine Hesitancy, Fear of Infection, and Protection Self-Efficacy.** *J. Prim. Care Community Health* 2021; 12:21501327211040746 McElfish PA, Willis DE, Shah SK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427126>
 149. **Effect of the COVID-19 pandemic on stress, anxiety, and depressive disorders in German primary care: A cross-sectional study.** *J. Psychiatr. Res.* 2021; 143:43-49 Bohlken J, Kostev K, Riedel-Heller S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450524>

150. **Preliminary suicide trends during the COVID-19 pandemic in Milan, Italy.** J. Psychiatr. Res. 2021; 143:21-22Calati R, Gentile G, Fornaro M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34438199>
151. **Attitudes of patients with severe mental illness towards COVID-19 vaccinations: A preliminary report from a public psychiatric hospital.** J. Psychiatr. Res. 2021; 143:16-20Danenber R, Shemesh S, Tzur Bitan D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34438198>
152. **Delirium is a good predictor for poor outcomes from coronavirus disease 2019 (COVID-19) pneumonia: A systematic review, meta-analysis, and meta-regression.** J. Psychiatr. Res. 2021; 142:361-368Hariyanto TI, Putri C, Hananto JE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425488>
153. **Depression, anxiety, and stress symptoms in pregnant women before and during the COVID-19 pandemic.** J. Psychosom. Res. 2021; 149:110586Mei H, Li N, Li J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454381>
154. **Redefining public health and sustainable economy: Covid-19 from pandemic to endemic.** J Public Health (Oxf) 2021; Deguma JJ, Capuno RG, Manguilimotan RP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427304>
155. **A data driven agent-based model that recommends non-pharmaceutical interventions to suppress Coronavirus disease 2019 resurgence in megacities.** J R Soc Interface 2021; 18:20210112Yin L, Zhang H, Li Y *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428950>
156. **Fall From Grace: Increased Loneliness and Depressiveness Among Extraverted Youth During the German COVID-19 Lockdown.** J. Res. Adolesc. 2021; 31:678-691Alt P, Reim J, Walper S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448311>
157. **Friend Support and Internalizing Symptoms in Early Adolescence During COVID-19.** J. Res. Adolesc. 2021; 31:692-702Bernasco EL, Nelemans SA, van der Graaff J, Branje S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448295>
158. **Adolescent and Maternal Anxiety Symptoms Decreased but Depressive Symptoms Increased before to during COVID-19 Lockdown.** J. Res. Adolesc. 2021; 31:517-530Hollenstein T, Colasante T, Loughheed JP.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448298>
159. **Peer Connectedness and Pre-Existing Social Reward Processing Predicts U.S. Adolescent Girls' Suicidal Ideation During COVID-19.** J. Res. Adolesc. 2021; 31:703-716Hutchinson EA, Sequeira SL, Silk JS *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448297>
160. **Parental Support and Positive Mood Buffer Adolescents' Academic Motivation During the COVID-19 Pandemic.** J. Res. Adolesc. 2021; 31:780-795Klootwijk CLT, Koele IJ, van Hoorn J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448292>
161. **Positive and Negative Online Experiences and Loneliness in Peruvian Adolescents During the COVID-19 Lockdown.** J. Res. Adolesc. 2021; 31:717-733Magis-Weinberg L, Gys CL, Berger EL *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448303>
162. **Social Disconnection During COVID-19: The Role of Attachment, Fear of Missing Out, and Smartphone Use.** J. Res. Adolesc. 2021; 31:748-763Parent N, Dadgar K, Xiao B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448308>
163. **Risk and Protective Factors for Changes in Adolescent Psychosocial Adjustment During COVID-19.** J. Res. Adolesc. 2021; 31:546-559Romm KF, Park YW, Hughes JL, Gentzler AL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448304>

164. **Too Lonely to Help: Early Adolescents' Social Connections and Willingness to Help During COVID-19 Lockdown.** J. Res. Adolesc. 2021; 31:764-779Sabato H, Abraham Y, Kogut T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448302>
165. **Chinese Adolescents' Coping with COVID-19: Relationships with Emotional Maladjustment and Parental Reactions to Negative Emotions.** J. Res. Adolesc. 2021; 31:645-656Shi Z, Wang Q. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448290>
166. **Prepandemic Risk Factors of COVID-19-Related Concerns in Adolescents During the COVID-19 Pandemic.** J. Res. Adolesc. 2021; 31:531-545van Loon AWG, Creemers HE, Vogelaar S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448296>
167. **Sleep in adults from the UK during the first few months of the coronavirus outbreak.** J. Sleep Res. 2021:e13465Madrid-Valero JJ, Bowling N, Vafeiadou A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453464>
168. **Changes in Life Circumstances and Mental Health Symptoms during the COVID-19 Pandemic among Midlife Women with Elevated Risk for Cardiovascular Disease.** J. Women Aging 2021:1-12Brown MM, Arigo D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432597>
169. **Prevalence and predictors of depression, anxiety, and stress symptoms among pregnant women during COVID-19-related lockdown in Abakaliki, Nigeria.** Malawi Med. J. 2021; 33:54-58Nwafor JI, Okedo-Alex IN, Ikeotuonye AC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422234>
170. **Psychosocial Impacts of the COVID-19 Quarantine: A Study of Gender Differences in 59 Countries.** Medicina (Kaunas) 2021; 57Kolakowsky-Hayner SA, Goldin Y, Kingsley K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440995>
171. **Neural connectome prospectively encodes the risk of post-traumatic stress disorder (PTSD) symptom during the COVID-19 pandemic.** Neurobiol Stress 2021; 15:100378Chen Z, Feng P, Becker B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430677>
172. **Explaining nurses' experience of stresses and coping mechanisms in coronavirus pandemic.** Nurs. Forum 2021; Ghorbani A, Shali M, Matourypour P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453318>
173. **The COVID-19 pandemic and healthcare workers psychological well-being: a cross-sectional survey in Indonesia.** Nurs Open 2021; Ni'matuzahroh, Ningrum V, Widayat *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427392>
174. **A gameful blended-learning experience in nursing: A qualitative focus group study.** Nurse Educ. Today 2021; 106:105109Ropero-Padilla C, Rodriguez-Arrastia M, Martinez-Ortigosa A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450457>
175. **Psychosocial situation, adherence, and utilization of video consultation in young adult long-term pediatric liver transplant recipients during COVID-19 pandemic.** Pediatr. Transplant. 2021:e14121Krv̇ncke S, Lund LK, Buchholz A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428322>
176. **Pain and satisfaction: the case of isolated COVID-19 patients of Pakistan.** PeerJ 2021; 9:e11859Haq W, Irfan S, Raza SH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430079>
177. **Perceived stress and Mobile phone addiction among college students during the 2019 coronavirus disease: The mediating roles of rumination and the moderating role of self-control.** Pers. Individ. Dif. 2021:111222Peng Y, Zhou H, Zhang B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429562>

178. **Lockdown Lives: A Longitudinal Study of Inter-Relationships Among Feelings of Loneliness, Social Contacts, and Solidarity During the COVID-19 Lockdown in Early 2020.** Pers. Soc. Psychol. Bull. 2021;1461672211036602van Breen JA, Kutlaca M, Koç Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433352>
179. **Clinical psychosocial emergency care within the framework of the COVID-19 pandemic - Status quo in facilities of medical psychology.** PPmP Psychotherapie Psychosomatik Medizinische Psychologie 2021; 71:353-354Hierundar A, Ditzen B, Fabry G *et al.*
180. **COVID-19: Increased mortality risk for mentally ill people?** PPmP Psychotherapie Psychosomatik Medizinische Psychologie 2021; 71:307-308Quante A.
181. **Covid-19 Effects on Psychological Outcomes: How Do Gender Responses Differ?** Psychol. Rep. 2021:332941211040428Lathabhavan R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424087>
182. **Parental Self-Efficacy and Behavioral Problems in Children with Autism During COVID-19: A Moderated Mediation Model of Parenting Stress and Perceived Social Support.** Psychol. Res. Behav. Manag. 2021; 14:1291-1301Chen SD, Yu Y, Li XK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429669>
183. **Psychological distress in primary caregivers of children with cancer during COVID-19 pandemic-A single tertiary care center experience.** Psychooncology 2021; Cheriyaalinkal Parambil B, Goswami S, Roy Moulik N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435720>
184. **[Psychometric properties of the Post-COVID 19 Functional Status scale for adult COVID 19 survivors].** Rehabilitacion (Madr) 2021; Lorca LA, Levêo Ribeiro I, Torres-Castro R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426013>
185. **Sleep Medicine Health-Care Worker Concerns About COVID-19: An Early Pandemic Survey.** Respir. Care 2021; Johnson KG, Sullivan SS, Rastegar V, Gurubhagavatula I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433676>
186. **Culture, Religion and the State: Towards a Multidisciplinary Approach to Ensuring Public Health During the COVID-19 Pandemic (and Beyond).** Risk Manag. Healthc. Policy 2021; 14:3395-3401Gozum IE, Capulong HG, Gopez JM, Galang JR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421317>
187. **Qualitative exploration of health system response to COVID-19 pandemic applying the WHO health systems framework: Case study of a Nigerian state.** Sci Afr 2021; 13:e00945Akinyemi OO, Popoola OA, Fowotade A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430762>
188. **Effect of emergency declaration on mental health during the COVID-19 pandemic in Japan: A social network service-based difference-in-differences approach.** Sci. Prog. 2021; 104:368504211029793Eguchi A, Yoneoka D, Shi S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424792>
189. **Insomnia in Bangladeshi Young Adults During the COVID-19 Pandemic: The Role of Behavioral Factors, COVID-19 Risk and Fear, and Mental Health Issues.** Sleep Vigil 2021:1-8Hasan M, Maliha Z, Rahman A, Mamun MA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423233>
190. **A multi-national test on self-reported compliance with COVID-19 public health measures: The role of individual age and gender demographics and countries' developmental status.** Soc. Sci. Med. 2021; 286:114335Lin T, Harris EA, Heemskerk A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450390>

191. **Health behaviors and mental health during the COVID-19 pandemic: A longitudinal population-based survey in Germany.** Soc. Sci. Med. 2021; 287:114333Mata J, Wenz A, Rettig T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455337>
192. **“Coronasomnia”—promoting resilience through insomnia treatment.** Somnologie 2021; 25:170-175Richter K, Kellner S.
193. **The emotional impact of the COVID-19 outbreak on cancer outpatients and their caregivers: results of a survey conducted in the midst of the Italian pandemic.** Support. Care Cancer 2021;1-11Cona MS, Rulli E, Dalu D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432171>
194. **Effects of lockdown during corona pandemic on children with neurodevelopmental disorders-A questionnaire-based survey.** Turk. J. Pediatr. 2021; 63:648-659Goswami JN, Sondhi V, Simalti AK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449147>
195. **Who Is Willing to Get Vaccinated? A Study into the Psychological, Socio-Demographic, and Cultural Determinants of COVID-19 Vaccination Intentions.** Vaccines (Basel) 2021; 9Giuliani M, Ichino A, Bonomi A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451935>
196. **Application of structural equation modeling to develop a conceptual model for entrepreneurship for psychological service workers during the COVID-19 pandemic.** Work 2021; 69:1127-1141Arnout BA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420995>
197. **Management of the COVID-19 Pandemic in the Republic of Korea from the Perspective of Governance and Public-Private Partnership.** Yonsei Med. J. 2021; 62:777-791Kim W, Jung TY, Roth S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427063>

Meta-analyses - systematic reviews (21 articles)

1. **Placental histopathology after SARS-CoV-2 infection in pregnancy: a systematic review and meta-analysis.** Am J Obstet Gynecol MFM 2021;100468Girolamo RD, Khalil A, Alameddine S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425296>
2. **Long-Term Impact of COVID-19: A Systematic Review of the Literature and Meta-Analysis.** Biomedicines 2021; 9Sanchez-Ramirez DC, Normand K, Zhaoyun Y, Torres-Castro R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440104>
3. **Pre-existing health conditions and severe COVID-19 outcomes: an umbrella review approach and meta-analysis of global evidence.** BMC Med 2021; 19:212Treskova-Schwarzbach M, Haas L, Reda S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446016>
4. **The Association of the Prolonged Use of Personal Protective Equipment and Face Mask During COVID-19 Pandemic With Various Dermatologic Disease Manifestations: A Systematic Review.** Cureus 2021; 13:e16544Barnawi GM, Barnawi AM, Samarkandy S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430151>
5. **A Comparison of Lung Ultrasound and Computed Tomography in the Diagnosis of Patients with COVID-19: A Systematic Review and Meta-Analysis.** Diagnostics (Basel) 2021; 11Wang M, Luo X, Wang L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441286>

6. **Efficacy and Safety of Traditional Chinese Medicine in Coronavirus Disease 2019 (COVID-19): A Systematic Review and Meta-Analysis.** Front. Pharmacol. 2021; 12:609213Wang H, Xu B, Zhang Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421581>
7. **Infectious Disease Outbreak and Post-Traumatic Stress Symptoms: A Systematic Review and Meta-Analysis.** Front. Psychol. 2021; 12:668784Qiu D, Li Y, Li L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421723>
8. **Immune checkpoint inhibitors use and effects on prognosis of COVID-19 infection: a systematic review and meta-analysis.** Immunotherapy 2021; Qian W, Ye Y, Zuo L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431319>
9. **Unusually High Risks of COVID-19 Mortality with Age-Related Comorbidities: An Adjusted Meta-Analysis Method to Improve the Risk Assessment of Mortality Using the Comorbid Mortality Data.** Infect Dis Rep 2021; 13:700-711Antos A, Kwong ML, Balmorez T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449622>
10. **Diagnostic Accuracy of Rapid Antigen Test Kits for Detecting SARS-CoV-2: A Systematic Review and Meta-Analysis of 17,171 Suspected COVID-19 Patients.** J Clin Med 2021; 10Khandker SS, Nik Hashim NHH, Deris ZZ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441789>
11. **Prevalence and clinical outcomes of pleural effusion in COVID-19 patients: A systematic review and meta-analysis.** J Med Virol 2021; Rathore SS, Hussain N, Manju AH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449896>
12. **Delirium is a good predictor for poor outcomes from coronavirus disease 2019 (COVID-19) pneumonia: A systematic review, meta-analysis, and meta-regression.** J. Psychiatr. Res. 2021; 142:361-368Hariyanto TI, Putri C, Hananto JE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425488>
13. **What can the neurological manifestations of COVID-19 tell us: a meta-analysis.** J Transl Med 2021; 19:363He Y, Bai X, Zhu T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425827>
14. **Repurposing Colchicine in Treating Patients with COVID-19: A Systematic Review and Meta-Analysis.** Life (Basel) 2021; 11Lien CH, Lee MD, Weng SL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440608>
15. **Pain and satisfaction: the case of isolated COVID-19 patients of Pakistan.** PeerJ 2021; 9:e11859Haq W, Irfan S, Raza SH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430079>
16. **Online search trends and word-related emotional response during COVID-19 lockdown in Italy: a cross-sectional online study.** PeerJ 2021; 9:e11858Montefinese M, Ambrosini E, Angrilli A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434648>
17. **Prevalence and Significance of Hypermetabolic Lymph Nodes Detected by 2-[(18)F]FDG PET/CT after COVID-19 Vaccination: A Systematic Review and a Meta-Analysis.** Pharmaceuticals (Basel) 2021; 14Treglia G, Cuzzocrea M, Giovanella L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451859>
18. **Predictive value of HbA1c for in-hospital adverse prognosis in COVID-19: A systematic review and meta-analysis.** Prim. Care Diabetes 2021; Zhu Z, Mao Y, Chen G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420899>
19. **A meta-analysis of granulocyte-macrophage colony-stimulating factor (GM-CSF) antibody treatment for COVID-19 patients.** Ther. Adv. Chronic Dis. 2021;

- 12:20406223211039699Guan JT, Wang WJ, Jin D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34434540>
20. **Sex Disparities in Efficacy in COVID-19 Vaccines: A Systematic Review and Meta-Analysis.** *Vaccines (Basel)* 2021; 9Bignucolo A, Scarabel L, Mezzalana S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451950>
21. **Nervous and Muscular Adverse Events after COVID-19 Vaccination: A Systematic Review and Meta-Analysis of Clinical Trials.** *Vaccines (Basel)* 2021; 9Chen J, Cai Y, Chen Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452064>

Mortality (41 articles)

1. **Evaluation of four novel prognostic scores on admission for COVID-19 mortality. An experience from a Mediterranean tertiary center.** *Acta Clin. Belg.* 2021;1-5Velissaris D, Paraskevas T, Oikonomou E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433382>
2. **Worldwide association of lifestyle-related factors and COVID-19 mortality.** *Ann. Med.* 2021; 53:1528-1533Wang J, Sato T, Sakuraba A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435518>
3. **Antibiotic Use and Fatal Outcomes among Critically Ill Patients with COVID-19 in Tacna, Peru.** *Antibiotics (Basel)* 2021; 10Copaja-Corzo C, Hueda-Zavaleta M, Benites-Zapata VA, Rodriguez-Morales AJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439009>
4. **MMP-2 and MMP-9 levels in plasma are altered and associated with mortality in COVID-19 patients.** *Biomed. Pharmacother.* 2021; 142:112067C DA-M, Couto AES, Campos LCB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449310>
5. **A clinical risk score to predict in-hospital mortality in critically ill patients with COVID-19: a retrospective cohort study.** *BMJ Open* 2021; 11:e048770Alkaabi S, Alnuaimi A, Alharbi M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446489>
6. **Translational deep phenotyping of deaths related to the COVID-19 pandemic: protocol for a prospective observational autopsy study.** *BMJ Open* 2021; 11:e049083Henningesen MJ, Khatam-Lashgari A, Olsen KB *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452963>
7. **How many infants may have died in low-income and middle-income countries in 2020 due to the economic contraction accompanying the COVID-19 pandemic? Mortality projections based on forecasted declines in economic growth.** *BMJ Open* 2021; 11:e050551Shapira G, de Walque D, Friedman J.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429282>
8. **Leveraging weather data for forecasting cases-to-mortality rates due to COVID-19.** *Chaos Solitons Fractals* 2021; 152:111340Illoanusi O, Ross A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421230>
9. **Leveraging Weather Data for Forecasting Cases-to-Mortality Rates Due to COVID-19.** *Chaos Solitons Fractals* 2021; 152:111340Illoanusi ON, Ross A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421230>
10. **Efficacy of Bamlanivimab in Reducing Hospitalization and Mortality Rates in COVID-19 Patients in a Rural Community.** *Cureus* 2021; 13:e16477Iqbal L, Terlau TJ, Hernandez A, Woods K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430093>
11. **The Impact of SARS-CoV-2 Viral Load on the Mortality of Hospitalized Patients: A Retrospective Analysis.** *Cureus* 2021; 13:e16540Machado A, Salvador P, Oliveira P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430148>

12. **Evolution of Mortality by Age Group in Patients With COVID-19 Above 60 Years of Age.** Cureus 2021; 13:e17149Pereira de Godoy MR, Machaso Salomão ML, Queiroz F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430186>
13. **COVID-19 prevalence and mortality in chronic dialysis patients.** Deutsches Arzteblatt International 2021; 118:195-196Hoxha E, Suling A, Turner JE *et al.*
14. **The COVID-19 disease burden in Germany in 2020 - Years of life lost to death and disease over the course of the pandemic.** Deutsches Arzteblatt International 2021; 118:145-151Rommel A, von der Lippe E, Plaß D *et al.*
15. **Machine Learning Approaches to Identify Patient Comorbidities and Symptoms That Increased Risk of Mortality in COVID-19.** Diagnostics (Basel) 2021; 11Aktar S, Talukder A, Ahamad MM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441317>
16. **Postmortem Cardiopulmonary Pathology in Patients with COVID-19 Infection: Single-Center Report of 12 Autopsies from Lausanne, Switzerland.** Diagnostics (Basel) 2021; 11Berezowska S, Lefort K, Ioannidou K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441292>
17. **Piecewise Modeling the Accumulated Daily Growth of COVID-19 Deaths: The Case of the State of São Paulo, Brazil.** Entropy (Basel) 2021; 23Saraiva EF, de Bragança Pereira CA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441153>
18. **COVID-19 deaths and associated demographic factors in Central Java, Indonesia.** Germs 2021; 11:255-265Sutiningsih D, Azzahra NA, Prabowo Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422697>
19. **High death anxiety and ambiguous loss: Lessons learned from teaching through the COVID-19 pandemic.** Gerontol. Geriatr. Educ. 2021;1-12Weaver R, Bolkan C, Decker A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425067>
20. **A Clinical Decision Web to Predict ICU Admission or Death for Patients Hospitalised with COVID-19 Using Machine Learning Algorithms.** Int J Environ Res Public Health 2021; 18Aznar-Gimeno R, Esteban LM, Labata-Lezaun G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444425>
21. **The Environmental and Social Determinants of Health Matter in a Pandemic: Predictors of COVID-19 Case and Death Rates in New York City.** Int J Environ Res Public Health 2021; 18De Jesus M, Ramachandra SS, Jafflin Z *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444164>
22. **Dying "from" or "with" COVID-19 during the Pandemic: Medico-Legal Issues According to a Population Perspective.** Int J Environ Res Public Health 2021; 18De-Giorgio F, Grassi VM, Bergamin E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444600>
23. **Spatial Disparities of COVID-19 Cases and Fatalities in United States Counties.** Int J Environ Res Public Health 2021; 18Jackson SL, Derakhshan S, Blackwood L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444007>
24. **The Ethics of Dying: Deciphering Pandemic-Resultant Pressures That Influence Elderly Patients' Medical Assistance in Dying (MAiD) Decisions.** Int J Environ Res Public Health 2021; 18Khawaja M, Khawaja A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444568>
25. **COVID-19-Associated Mortality in US Veterans with and without SARS-CoV-2 Infection.** Int J Environ Res Public Health 2021; 18Suzuki A, Efird JT, Redding TSt *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444232>
26. **Severe COVID-19 Patients Show an Increase in Soluble TNFR1 and ADAM17, with a Relationship to Mortality.** Int J Mol Sci 2021; 22Palacios Y, Ruiz A, Ramón-

- Luing LA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445140>
27. **US Nursing Home Quality Ratings Associated with COVID-19 Cases and Deaths Introduction.** *J. Am. Med. Dir. Assoc.* 2021; Khairat S, Zalla LC, Adler-Milstein J, Kistler CE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454922>
 28. **Group IIA secreted phospholipase A2 is associated with the pathobiology leading to COVID-19 mortality.** *J. Clin. Invest.* 2021; Snider JM, You JK, Wang X *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428181>
 29. **The Effects of Previous Thyroid Disease on the Susceptibility to, Morbidity of, and Mortality Due to COVID-19: A Nationwide Cohort Study in South Korea.** *J Clin Med* 2021; 10Kim SY, Yoo DM, Min CY, Choi HG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441818>
 30. **Severe Lymphopenia as a Predictor of COVID-19 Mortality in Immunosuppressed Patients.** *J Clin Med* 2021; 10Martínez-Urbistondo M, Gutiérrez-Rojas Á, Andrés A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441891>
 31. **Metformin Use Is Associated with Decreased Mortality in COVID-19 Patients with Diabetes: Evidence from Retrospective Studies and Biological Mechanism.** *J Clin Med* 2021; 10Poly TN, Islam MM, Li YJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441802>
 32. **Role of Lung Ultrasound in Predicting Clinical Severity and Fatality in COVID-19 Pneumonia.** *J Pers Med* 2021; 11Skopljanac I, Ivelja MP, Barcot O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442401>
 33. **Epidemiological, Clinical, and Laboratory Predictors of In-Hospital Mortality Among COVID-19 Patients Admitted in a Tertiary COVID Dedicated Hospital, Northern India: A Retrospective Observational Study.** *J. Prim. Care Community Health* 2021; 12:21501327211041486Ahmad S, Kumar P, Shekhar S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427136>
 34. **Association of Pre-Hospital Antiplatelet Therapy with Survival in Patients Hospitalized with COVID-19: A Propensity Score-Matched Analysis.** *J Thromb Haemost* 2021; Chow JH, Yin Y, Yamane DP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455688>
 35. **In-Hospital Mortality of COVID-19 Patients Treated with High-Flow Nasal Oxygen: Evaluation of Biomarkers and Development of the Novel Risk Score Model CROW-65.** *Life (Basel)* 2021; 11Kljakovic Gaspic T, Pavicic Ivelja M, Kumric M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440479>
 36. **Mortality Following Hip Fracture Surgery During COVID-19 Pandemic Compared to Pre-COVID-19 Period: A Case Matched Cohort Series.** *Malays Orthop J* 2021; 15:107-114De C, Harbham PK, Postoyalko C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429830>
 37. **Mortality in Hemodialysis Patients with COVID-19, the Effect of Paricalcitol or Calcimimetics.** *Nutrients* 2021; 13Arenas Jimenez MD, González-Parra E, Riera M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444716>
 38. **Changes in mortality patterns and place of death during the COVID-19 pandemic: A descriptive analysis of mortality data across four nations.** *Palliat. Med.* 2021; 2692163211040981O'Donnell SB, Bone AE, Finucane AM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425717>
 39. **Pathological Features in 100 Deceased Patients With COVID-19 in Correlation With Clinical and Laboratory Data.** *Pathol. Oncol. Res.* 2021;

- 27:1609900Mikhaleva LM, Cherniaev AL, Samsonova MV *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421396>
40. **COVID-19: Increased mortality risk for mentally ill people?** PPmP Psychotherapie Psychosomatik Medizinische Psychologie 2021; 71:307-308Quante A.
41. **New Scoring System for Predicting Mortality in Patients with COVID-19.** Yonsei Med. J. 2021; 62:806-813Bae S, Kim Y, Hwang S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427066>

Online – IT – Apps (92 articles)

1. **Application of Telemedicine Video Visits in a Maternal Fetal Medicine Practice at the epicenter of the COVID 19 pandemic.** Am J Obstet Gynecol MFM 2021:100469Tozour JN, Bandremer S, Patberg E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34450341>
2. **Virtual clinics in foot and ankle surgery: patient and clinician perceptions.** Ann. R. Coll. Surg. Engl. 2021; Rhind JH, Devany A, Ramhamadany E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34432532>
3. **Conspiracy beliefs and the impact on health behaviors.** Appl Psychol Health Well Being 2021; Kroke AM, Ruthig JC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435446>
4. **Online versus classroom teaching for medical students during COVID-19: measuring effectiveness and satisfaction.** BMC Med. Educ. 2021; 21:452AlQhtani A, AlSwedan N, Almulhim A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454493>
5. **Virtual obstetrics and gynecology fellowship interviews during the coronavirus disease 2019 (COVID-19) pandemic: a survey study.** BMC Med. Educ. 2021; 21:449Peyser A, Gulersen M, Nimaroff M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433453>
6. **Patient connectivity with healthcare professionals and health insurer using digital health technologies during the COVID-19 pandemic: a German cross-sectional study.** BMC Med. Inform. Decis. Mak. 2021; 21:250Hannemann N, Götz NA, Schmidt L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433452>
7. **Analysis of tweets on toothache during the COVID-19 pandemic using the CrystalFeel algorithm: a cross-sectional study.** BMC Oral Health 2021; 21:418Altan H, Coşgun A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433449>
8. **Socio-economic and demographic impacts on the full awareness of the methods for controlling/preventing the spread of COVID-19 among social media users in some African countries at the onset of the pandemic.** BMC Res. Notes 2021; 14:331Okorie IE, Afuecheta E, Alaebo CG, Nadarajah S.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452631>
9. **What symptoms best predict severe distress in an online survey of UK health and social care staff facing COVID-19: development of the two-item Tipping Point Index.** BMJ Open 2021; 11:e047345Brewin CR, Bloomfield MAP, Billings J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452960>
10. **Home spirometry utilisation in telemedicine clinic for cystic fibrosis care during COVID-19 pandemic: a quality improvement process.** BMJ Open Qual 2021; 10Compton M, List R, Starheim E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433580>

11. **Virtual tabletop simulations for primary care pandemic preparedness and response.** BMJ Simul Technol Enhanc Learn 2021; 7:487-493Blaak MJ, Fadaak R, Davies JM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422296>
12. **Telehealth: The role of respiratory therapists during the COVID-19 emergency.** Can J Respir Ther 2021; 57:119-120Sawadkar MM, Nayak VR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447881>
13. **Alliance Between Therapist and Multi-stressed Families During the COVID-19 Pandemic: The Effect of Family-Based Videoconferencing.** Child Youth Care Forum 2021:1-19Lange AMC, Delsing M, van Geffen M, Scholte RHJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421286>
14. **Affective Concept-Based Encoding of Patient Narratives via Sentic Computing and Neural Networks.** Cognit. Comput. 2021:1-26Grissette H, Nfaoui EH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422122>
15. **The Dutch Data Warehouse, a multicenter and full-admission electronic health records database for critically ill COVID-19 patients.** Crit Care 2021; 25:304Fleuren LM, Dam TA, Tonutti M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425864>
16. **Multidisciplinary Simulation Training for Surgical Tracheostomy in Patients Mechanically Ventilated Secondary to Severe Acute Respiratory Syndrome Coronavirus 2.** Ear Nose Throat J 2021:1455613211042119Towning R, Rennie C, Ferguson M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427150>
17. **A thematic analysis of higher education students' perceptions of online learning in Hong Kong under COVID-19: Challenges, strategies and support.** Educ Inf Technol (Dordr) 2021:1-28Yeung MWL, Yau AHY. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421326>
18. **Lessons Learned from the COVID-19 Pandemic: Emphasizing the Emerging Role and Perspectives from Artificial Intelligence, Mobile Health, and Digital Laboratory Medicine.** Ejifcc 2021; 32:224-243Dabla PK, Gruson D, Gouget B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421492>
19. **Using mobile applications and websites for the diagnosis of COVID-19 in Spain.** Enferm Infecc Microbiol Clin (Engl Ed) 2021; Guisado-Clavero M, Ares-Blanco S, Ben Abdellah LD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446394>
20. **Interactive live-stream surgery contributes to surgical education in the context of contact restrictions.** Eur Arch Otorhinolaryngol 2021:1-7van Bonn SM, Grajek JS, Schneider A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424381>
21. **Virtual primary care in high-income countries during the COVID-19 pandemic: Policy responses and lessons for the future.** Eur J Gen Pract 2021; 27:241-247Neves AL, Li E, Gupta PP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431426>
22. **Emerging application of Google Trends searches on "conjunctivitis" for tracing the course of COVID-19 pandemic.** Eur. J. Ophthalmol. 2021:11206721211042551Pellegrini M, Ferrucci E, Guaraldi F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431411>
23. **The effect of Covid-19 on the willingness to use video consultations among orthopedic and trauma outpatients: a multi-center survey in 1400 outpatients.** Eur. J. Trauma Emerg. Surg. 2021:1-8Scherer J, Back DA, Thienemann F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427693>
24. **A STEM Course Analysis During COVID-19: A Comparison Study in Performance and Affective Domain of PSTs Between F2F and F2S Flipped**

- Classroom.** *Front. Psychol.* 2021; 12:669855Jeong JS, González-Gómez D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447329>
25. **"It All Makes Us Feel Together": Young People's Experiences of Virtual Group Music-Making During the COVID-19 Pandemic.** *Front. Psychol.* 2021; 12:703892Levstek M, Barnby RM, Pocock KL, Banerjee R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421756>
 26. **Social Isolation, Loneliness and Well-Being: The Impact of WeChat Use Intensity During the COVID-19 Pandemic in China.** *Front. Psychol.* 2021; 12:707667Li J, Zhou L, Van Der Heijden B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447340>
 27. **The Relationship Between Technology Use and Problem Technology Use and Potential Psychosocial Mechanisms: Population-Based Telephone Survey in Community Adults During COVID-19.** *Front. Psychol.* 2021; 12:696271Yang X, Yip BHK, Lee EKP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434146>
 28. **California's COVID-19 Virtual Training Academy: Rapid Scale-Up of a Statewide Contact Tracing and Case Investigation Workforce Training Program.** *Front Public Health* 2021; 9:706697Brickley DB, Forster M, Alonis A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434915>
 29. **The COVID-19 Pandemic as an Opportunity for Teletherapy? - A Survey of non-medical therapy professionals in the health sector.** *Gesundheitswesen (Bundesverband der Ärzte des Öffentlichen Gesundheitsdienstes (Germany))* 2021; Richter B, Wattenberg I, Vollmer AL *et al.*
 30. **Sexual Orientation and the Incidence of COVID-19: Evidence from Understanding Society in the UK Longitudinal Household Study.** *Healthcare (Basel)* 2021; 9Booker CL, Meads C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442074>
 31. **A Blockchain and Artificial Intelligence-Based, Patient-Centric Healthcare System for Combating the COVID-19 Pandemic: Opportunities and Applications.** *Healthcare (Basel)* 2021; 9Jabarulla MY, Lee HN. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442156>
 32. **Artificial Intelligence for Hospital Health Care: Application Cases and Answers to Challenges in European Hospitals.** *Healthcare (Basel)* 2021; 9Klumpp M, Hintze M, Immonen M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442098>
 33. **Assessing the Impact of Social Media Use on Everyday Emotion in Health Crises: A Study of International Students in China during COVID-19.** *Healthcare (Basel)* 2021; 9Larnyo E, Dai B, Nutakor JA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442148>
 34. **Medical Faculty's and Students' Perceptions toward Pediatric Electronic OSCE during the COVID-19 Pandemic in Saudi Arabia.** *Healthcare (Basel)* 2021; 9Shaiba LA, Alnamakani MA, Tamsah MH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442087>
 35. **Characteristics of COVID-19-Related Free Telephone Consultations by Public Health Nurses in Japan: A Retrospective Study.** *Healthcare (Basel)* 2021; 9Sumikawa Y, Honda C, Yoshioka-Maeda K, Yamamoto-Mitani N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442159>
 36. **Practicing Surgical Pathology at a Distance, Need of the Hour: Our Experience of a Single Tertiary Care Referral Cancer Centre Observational Study from Western India During Covid-19 Pandemic.** *Indian J Surg Oncol* 2021;1-5Sharma A, Vyas PG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421278>

37. **Vaccine Hesitancy towards COVID-19 Vaccination: Investigating the Role of Information Sources through a Mediation Analysis.** Infect Dis Rep 2021; 13:712-723Reno C, Maietti E, Di Valerio Z *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449654>
38. **Psychosocial Health of K-12 Students Engaged in Emergency Remote Education and In-Person Schooling: A Cross-Sectional Study.** Int J Environ Res Public Health 2021; 18Acosta D, Fujii Y, Joyce-Beaulieu D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444312>
39. **Social Connectivity, Sentiment and Participation on Twitter during COVID-19.** Int J Environ Res Public Health 2021; 18Castro-Martinez A, Méndez-Domínguez P, Sosa Valcarcel A, Castillo de Mesa J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444139>
40. **COVID-19-Related Financial Hardship, Job Loss, and Mental Health Symptoms: Findings from a Cross-Sectional Study in a Rural Agrarian Community in India.** Int J Environ Res Public Health 2021; 18Chatterji S, McDougal L, Johns N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444394>
41. **Applying a Multi-Dimensional Digital Food and Nutrition Literacy Model to Inform Research and Policies to Enable Adults in the U.S. Supplemental Nutrition Assistance Program to Make Healthy Purchases in the Online Food Retail Ecosystem.** Int J Environ Res Public Health 2021; 18Consavage Stanley K, Harrigan PB, Serrano EL, Kraak VI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444084>
42. **Inpatient Telemedicine and New Models of Care during COVID-19: Hospital Design Strategies to Enhance Patient and Staff Safety.** Int J Environ Res Public Health 2021; 18Pilosof NP, Barrett M, Oborn E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444140>
43. **Applications of Artificial Intelligence, Machine Learning, Big Data and the Internet of Things to the COVID-19 Pandemic: A Scientometric Review Using Text Mining.** Int J Environ Res Public Health 2021; 18Rodríguez-Rodríguez I, Rodríguez JV, Shirvanizadeh N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444327>
44. **Psychosomatic Symptoms and Neuroticism following COVID-19: The Role of Online Aggression toward a Stigmatized Group.** Int J Environ Res Public Health 2021; 18Teng F, Wang X, Shi J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444420>
45. **Facing the Growing COVID-19 Infodemic: Digital Health Literacy and Information-Seeking Behaviour of University Students in Slovenia.** Int J Environ Res Public Health 2021; 18Vrdelja M, Vrbovšek S, Klopčič V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444255>
46. **Hacking Covid-19 with Technology.** Int. J. Prev. Med. 2021; 12:73Jain B, Khan A, Verma N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447515>
47. **Continued influence of misinformation in times of COVID-19.** Int. J. Psychol. 2021; van Huijstee D, Vermeulen I, Kerkhof P, Droog E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448200>
48. **Freshmen anxiety and COVID-19: Practical implications from an online intervention for supporting students affected by health inequities.** J. Am. Coll. Health 2021:1-10Ray EC, Perko A, Oehme K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449301>

49. **Robotic-assisted percutaneous coronary intervention in the COVID-19 pandemic.** *J. Cardiol.* 2021; Yamaji K, Mitsutake Y, Nakano M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454811>
50. **Weighted Gene Co-Expression Network Analysis Combined with Machine Learning Validation to Identify Key Modules and Hub Genes Associated with SARS-CoV-2 Infection.** *J Clin Med* 2021; 10Karami H, Derakhshani A, Ghasemigol M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441862>
51. **Oral Health and Teledentistry Interest during the COVID-19 Pandemic.** *J Clin Med* 2021; 10Sycinska-Dziarnowska M, Maglito M, Woźniak K, Spagnuolo G.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441828>
52. **The role of online consultation requests to personal social media accounts and instant messaging services of dermatologists in occupational burnout: An emerging problem.** *J Cosmet Dermatol* 2021; Demirel Öğüt N, Öğüt Ç, Eşme P.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449960>
53. **Public sentiment analysis and topic modeling regarding COVID-19 vaccines on the Reddit social media platform: A call to action for strengthening vaccine confidence.** *J Infect Public Health* 2021; Melton CA, Olusanya OA, Ammar N, Shaban-Nejad A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426095>
54. **Satisfaction Level of the Oral Medicine Patients Using Teledentistry During the COVID-19 Pandemic: A Factor Analysis.** *J Int Soc Prev Community Dent* 2021; 11:414-420Amtha R, Gunardi I, Astoeti TE, Roeslan MO.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430503>
55. **Investigating the Use of Telemedicine for Digitally Mediated Delegation in Team-Based Primary Care: Mixed Methods Study.** *J Med Internet Res* 2021; 23:e28151Knop M, Mueller M, Niehaves B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435959>
56. **Surgical Outcomes in Benign Gynecologic Surgery Patients during the COVID-19 Pandemic (SOCOVID study).** *J Minim Invasive Gynecol* 2021; Kho RM, Chang OH, Hare A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438045>
57. **Telepharmacy: A Potential Alternative Approach for Diabetic Patients During the COVID-19 Pandemic.** *J Multidiscip Healthc* 2021; 14:2261-2273Iftinan GN, Wathoni N, Lestari K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447253>
58. **Patient Experiences With Telemedicine in a National Health Service Rheumatology Outpatient Department During Coronavirus Disease-19.** *J Patient Exp* 2021; 8:23743735211034973Jones MT, Arif R, Rai A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435089>
59. **Knowledge, Awareness, and Attitude among Practicing Orthodontist on Teledentistry during COVID Pandemic in Kerala: A Cross-Sectional Survey.** *J. Pharm. Bioallied Sci.* 2021; 13:S846-s850George PP, Edathotty TT, Gopikrishnan S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447213>
60. **Positive and Negative Online Experiences and Loneliness in Peruvian Adolescents During the COVID-19 Lockdown.** *J. Res. Adolesc.* 2021; 31:717-733Magis-Weinberg L, Gys CL, Berger EL *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448303>
61. **Social Disconnection During COVID-19: The Role of Attachment, Fear of Missing Out, and Smartphone Use.** *J. Res. Adolesc.* 2021; 31:748-763Parent N, Dadgar K, Xiao B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448308>
62. **SMART Recovery International and COVID-19: Expanding the reach of mutual support through online groups.** *J. Subst. Abuse Treat.* 2021:108568Kelly PJ,

- McCreanor K, Beck AK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446323>
63. **Redesigning a Web-Based Stakeholder Consensus Meeting About Core Outcomes for Clinical Trials: Formative Feedback Study.** *JMIR Form Res* 2021; 5:e28878Katiri R, Hall DA, Hoare DJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420915>
 64. **Analyzing Social Media to Explore the Attitudes and Behaviors Following the Announcement of Successful COVID-19 Vaccine Trials: Infodemiology Study.** *JMIR Infodemiology* 2021; 1:e28800Boucher JC, Cornelson K, Benham JL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447924>
 65. **The Role of the Canadian Media During the Initial Response to the COVID-19 Pandemic: A Topic Modelling Approach Using Canadian Broadcasting Corporation News Articles.** *JMIR Infodemiology* 2021; 1:e25242Patel J, Desai H, Okhowat A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447922>
 66. **Infodemic Signal Detection During the COVID-19 Pandemic: Development of a Methodology for Identifying Potential Information Voids in Online Conversations.** *JMIR Infodemiology* 2021; 1:e30971Purnat TD, Vacca P, Czerniak C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447926>
 67. **The Impact of COVID-19 on Conspiracy Hypotheses and Risk Perception in Italy: Infodemiological Survey Study Using Google Trends.** *JMIR Infodemiology* 2021; 1:e29929Rovetta A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447925>
 68. **Desensitization to Fear-Inducing COVID-19 Health News on Twitter: Observational Study.** *JMIR Infodemiology* 2021; 1:e26876Stevens HR, Oh YJ, Taylor LD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447923>
 69. **Innovation Inspired by COVID: A Virtual Treatment Program for Patients With Mild Cognitive Impairment at Mayo Clinic.** *Mayo Clin Proc Innov Qual Outcomes* 2021; 5:820-826Locke DEC, Khayoun R, Shandera-Ochsner AL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423257>
 70. **Novel and Innovative Approaches to Teaching Human Anatomy Classes in an Online Environment During a Pandemic.** *Med Sci Educ* 2021;1-11Diaz CM, Linden K, Solyali V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422452>
 71. **Analytic thinking predicts accuracy ratings and willingness to share COVID-19 misinformation in Australia.** *Mem. Cognit.* 2021;1-10Nurse MS, Ross RM, Isler O, Van Rooy D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453286>
 72. **Enabling remote learning system for virtual personalized preferences during COVID-19 pandemic.** *Multimed Tools Appl* 2021;1-27Ali S, Hafeez Y, Abbas MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421330>
 73. **An optimal feature enriched region of interest (ROI) extraction for periocular biometric system.** *Multimed Tools Appl* 2021;1-19Kumari P, K RS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429711>
 74. **Myasthenia gravis and telemedicine: a lesson from COVID-19 pandemic.** *Neurol Sci* 2021;1-4Ricciardi D, Casagrande S, Iodice F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436726>
 75. **Diet Intervention Study through Telemedicine Assistance for Systemic Nickel Allergy Syndrome Patients during the COVID-19 Pandemic.** *Nutrients* 2021; 13Nucera E, Rizzi A, Chini R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445054>
 76. **Impacts of Digital Healthy Diet Literacy and Healthy Eating Behavior on Fear of COVID-19, Changes in Mental Health, and Health-Related Quality of Life**

- among Front-Line Health Care Workers. *Nutrients* 2021; 13Vu DN, Phan DT, Nguyen HC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444814>
77. **Digital surveillance: The interests in toothache-related information after the outbreak of COVID-19.** *Oral Dis* 2021; Rizzato VL, Lotto M, Lourenço Neto N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448289>
 78. **Artificial Intelligence in Surveillance, Diagnosis, Drug Discovery and Vaccine Development against COVID-19.** *Pathogens* 2021; 10Arora G, Joshi J, Mandal RS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451513>
 79. **Use of emerging testing technologies and approaches for SARS-CoV-2: review of literature and global experience in an Australian context.** *Pathology* 2021; Graham M, Ballard SA, Pasricha S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425991>
 80. **Did chatbots miss their "Apollo Moment"? Potential, gaps, and lessons from using collaboration assistants during COVID-19.** *Patterns (N Y)* 2021; 2:100308Srivastava B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430927>
 81. **Online search trends and word-related emotional response during COVID-19 lockdown in Italy: a cross-sectional online study.** *PeerJ* 2021; 9:e11858Montefinese M, Ambrosini E, Angrilli A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434648>
 82. **Perceived stress and Mobile phone addiction among college students during the 2019 coronavirus disease: The mediating roles of rumination and the moderating role of self-control.** *Pers. Individ. Dif.* 2021:111222Peng Y, Zhou H, Zhang B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429562>
 83. **Can scientists use simple infographics to convince? Effects of the "flatten the curve" charts on perceptions of and behavioral intentions toward social distancing measures during the COVID-19 pandemic.** *Public Underst Sci* 2021:9636625211038719Li N, Molder AL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448434>
 84. **Fibromyalgia: a new facet of the post-COVID-19 syndrome spectrum? Results from a web-based survey.** *RMD Open* 2021; 7Ursini F, Ciaffi J, Mancarella L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426540>
 85. **Effect of emergency declaration on mental health during the COVID-19 pandemic in Japan: A social network service-based difference-in-differences approach.** *Sci. Prog.* 2021; 104:368504211029793Eguchi A, Yoneoka D, Shi S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424792>
 86. **Sentiment Analysis of Arabic Tweets Regarding Distance Learning in Saudi Arabia during the COVID-19 Pandemic.** *Sensors (Basel)* 2021; 21Aljabri M, Chrouf SMB, Alzahrani NA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450873>
 87. **Using Privacy Respecting Sound Analysis to Improve Bluetooth Based Proximity Detection for COVID-19 Exposure Tracing and Social Distancing.** *Sensors (Basel)* 2021; 21Bahle G, Fortes Rey V, Bian S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451046>
 88. **Privacy Preserving Association Rule Mining on Distributed Healthcare Data: COVID-19 and Breast Cancer Case Study.** *SN Comput Sci* 2021; 2:418Domadiya N, Rao UP. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423316>
 89. **The Iterative Model of Ethical Analysis for Large-Scale Implementation Of ICT Solutions.** *Transl Med UniSa* 2020; 23:1-9Dantas C, Machado N, Ortet S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447702>

90. **Comparative Computational Modeling of the Bat and Human Immune Response to Viral Infection with the Comparative Biology Immune Agent Based Model.** *Viruses* 2021; 13Cockrell C, An G.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452484>
91. **Preliminary Results of Teleconsultations Temporarily Allowed during the COVID-19 Pandemic.** *Yonsei Med. J.* 2021; 62:850-857Kim H, Lee H, Park CS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427072>
92. **[Acceptance of video consultation among patients with inflammatory rheumatic diseases depends on gender and location-Results of an online survey among patients and physicians].** *Z. Rheumatol.* 2021:1-5Vossen D, Knitza J, Klemm P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448915>

Other – Miscellaneous (100 articles)

1. **Moderators of changes in smoking, drinking and quitting behaviour associated with the first COVID-19 lockdown in England.** *Addiction* 2021; Jackson SE, Beard E, Angus C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431577>
2. **Companion Animal Type and Level of Engagement Matter: A Mixed-Methods Study Examining Links between Companion Animal Guardianship, Loneliness and Well-Being during the COVID-19 Pandemic.** *Animals (Basel)* 2021; 11Clements H, Valentin S, Jenkins N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438806>
3. **Human-Dog Relationship during the First COVID-19 Lockdown in Italy.** *Animals (Basel)* 2021; 11d'Angelo D, Chirico A, Sacchettino L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438792>
4. **Advancing Human-Animal Interaction to Counter Social Isolation and Loneliness in the Time of COVID-19: A Model for an Interdisciplinary Public Health Consortium.** *Animals (Basel)* 2021; 11Hughes AM, Braun L, Putnam A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438781>
5. **Unlicensed GS-441524-Like Antiviral Therapy Can Be Effective for at-Home Treatment of Feline Infectious Peritonitis.** *Animals (Basel)* 2021; 11Jones S, Novicoff W, Nadeau J, Evans S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438720>
6. **Canine Olfaction: Physiology, Behavior, and Possibilities for Practical Applications.** *Animals (Basel)* 2021; 11Kokocińska-Kusiak A, Woszczyło M, Zybala M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438920>
7. **Affordability, Feasibility, and Accessibility: Companion Animal Guardians with (Dis)Abilities' Access to Veterinary Medical and Behavioral Services during COVID-19.** *Animals (Basel)* 2021; 11Wu H, Bains RS, Morris A, Morales C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438816>
8. **Global assessment of tropospheric and ground air pollutants and its correlation with COVID-19.** *Atmos Pollut Res* 2021; 12:101172Naqvi HR, Mutreja G, Hashim M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421319>
9. **COVID-19 and the impact of cash transfers on health care use in Togo.** *BMC Health Serv. Res.* 2021; 21:882Tossou Y. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452611>
10. **COVID-19 in conflict region: the arab levant response.** *BMC Public Health* 2021; 21:1590Bizri NA, Alam W, Mobayed T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452611>

term=34445976

11. **Telework in a pandemic context: protocol of a participatory study on the effects of teleworking conditions on the well-being and social participation of workers.** BMJ Open 2021; 11:e051099Lecours A, Gilbert MH, Lord MM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429318>
12. **Impact of social restrictions during the COVID-19 pandemic on the physical activity levels of adults aged 50-92 years: a baseline survey of the CHARIOT COVID-19 Rapid Response prospective cohort study.** BMJ Open 2021; 11:e050680Salman D, Beaney T, C ER *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433606>
13. **Association of decreased physical activity due to the COVID-19 pandemic with new-onset neck pain in survivors of the Great East Japan Earthquake: a prospective cohort study.** BMJ Open 2021; 11:e051751Sekiguchi T, Hagiwara Y, Yabe Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426471>
14. **Effect of COVID-19 on smoking cessation outcomes in a large primary care treatment programme: an observational study.** BMJ Open 2021; 11:e053075Veldhuizen S, Selby P, Wong B, Zawertailo L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446503>
15. **The Effects of the COVID19-Related Lockdown Are Modulated by Age: An Italian Study in Toddlers and Pre-Schoolers.** Brain Sci 2021; 11Cerasuolo M, Malloggi S, Conte F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439670>
16. **COVID-19-related hospital cost-outcome analysis: The impact of clinical and demographic factors.** Braz. J. Infect. Dis. 2021; 25:101609Miethke-Morais A, Cassenote A, Piva H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454894>
17. **A warning about measurement and methodological issues associated with coronavirus tracking and evaluation across jurisdictions.** Can. Commun. Dis. Rep. 2021; 47:297-299Ladouceur R, Shaffer H, Shaffer P, Baillargeon L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421384>
18. **COVID-19: A case for the collection of race data in Canada and abroad.** Can. Commun. Dis. Rep. 2021; 47:300-304Thompson E, Edjoc R, Atchessi N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421385>
19. **Point of care tobacco treatment sustains during COVID-19, a global pandemic.** Cancer Epidemiol. 2021:102005Craig EJ, Ramsey AT, Baker TB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446379>
20. **Leveraging Weather Data for Forecasting Cases-to-Mortality Rates Due to COVID-19.** Chaos Solitons Fractals 2021; 152:111340Iloanus ON, Ross A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421230>
21. **Analytical methods for the identification of micro/nano metals in e-cigarette emission samples: a review.** Chem Zvesti 2021:1-12Al-Qaysi WW, Abdulla FH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421189>
22. **COVID-19: Violations of professional regulations.** Deutsches Arzteblatt International 2021; 118:A456+A458Osterloh F, Richter-Kuhlmann E.
23. **Pet Keeping in the Time of COVID-19: The Canine and Feline Companions of Young Children.** Early Child Educ J 2021:1-11Jalongo MR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426724>
24. **The Relationship between Adults' Perceptions, Attitudes of COVID-19, Intuitive Eating, and Mindful Eating Behaviors.** Ecol. Food Nutr. 2021:1-20Sanlier N, Kocabas S, Ulusoy HG, Celik B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435919>

25. **Economic impact payment, human mobility and COVID-19 mitigation in the USA.** Empir Econ 2021:1-20Zhang R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429565>
26. **A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions.** Environ Int 2021; 157:106818Sokhi RS, Singh V, Querol X *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425482>
27. **Source apportionment of PM_{2.5} and sulfate formation during the COVID-19 lockdown in a coastal city of southeast China.** Environ Pollut 2021; 286:117577Hong Y, Xu X, Liao D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438498>
28. **Characteristics and sources of amine-containing particles in the urban atmosphere of Liaocheng, a seriously polluted city in North China during the COVID-19 outbreak.** Environ Pollut 2021; 289:117887Li Z, Zhou R, Wang Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426186>
29. **Nonlinearity in the relationship between COVID-19 cases and carbon damages: controlling financial development, green energy, and R&D expenditures for shared prosperity.** Environ. Sci. Pollut. Res. Int. 2021:1-13Anser MK, Godil DI, Khan MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424465>
30. **Reshaping sustainable development trajectory due to COVID-19 pandemic.** Environ. Sci. Pollut. Res. Int. 2021:1-21Batisha A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455558>
31. **Analyzing the severity of coronavirus infections in relation to air pollution: evidence-based study from Saudi Arabia.** Environ. Sci. Pollut. Res. Int. 2021:1-11Ghanim AAJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448138>
32. **The impact of coronavirus SARS-CoV-2 (COVID-19) in water: potential risks.** Environ. Sci. Pollut. Res. Int. 2021:1-24Girón-Navarro R, Linares-Hernández I, Castillo-Suárez LA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453253>
33. **The dynamics of carbon on green energy equity investment: quantile-on-quantile and quantile coherency approaches.** Environ. Sci. Pollut. Res. Int. 2021:1-11Mo B, Li Z, Meng J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435286>
34. **Health concerns among waste collectors during pandemic crisis.** Environ. Sci. Pollut. Res. Int. 2021:1-16Ye Q, Asmi F, Anwar MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453243>
35. **Critical Role of Simultaneous Reduction of Atmospheric Odd Oxygen for Winter Haze Mitigation.** Environ. Sci. Technol. 2021; 55:11557-11567Huang XF, Cao LM, Tian XD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431667>
36. **How COVID-19 Pandemic Worsens the Economic Situation of Women in South Africa.** Eur J Dev Res 2021:1-18Chitiga M, Henseler M, Mabugu RE, Maisonnave H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421229>
37. **Trends in Food Preferences and Sustainable Behavior during the COVID-19 Lockdown: Evidence from Spanish Consumers.** Foods 2021; 10Li S, Kallas Z, Rahmani D, Gil JM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441675>
38. **A Global Survey on Changes in the Supply, Price, and Use of Illicit Drugs and Alcohol, and Related Complications During the 2020 COVID-19 Pandemic.** Front Psychiatry 2021; 12:646206Farhoudian A, Radfar SR, Mohaddes Ardabili H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421664>
39. **Challenges Faced by Healthcare Professionals During the COVID-19 Pandemic: A Qualitative Inquiry From Bangladesh.** Front Public Health 2021;

- 9:647315Razu SR, Yasmin T, Arif TB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447734>
40. **The Amplifying Effect of Conflicts on Case Fatality Rate of COVID-19: Evidence From 120 Countries.** Front Public Health 2021; 9:681604Zhai Y, Jiang D, Gozgor G, Cho E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422745>
 41. **The evolution from life insurance to financial engineering.** Geneva Risk Insur Rev 2021;1-23Kuijten RSJ, Yogo M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429715>
 42. **A Descriptive Analysis of the Scientific Literature on Meteorological and Air Quality Factors and COVID-19.** Geohealth 2021; 5:e2020GH000367Quintana AV, Clemons M, Hoevenmeyer K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430778>
 43. **A socio-geographic perspective of health and economic impacts of COVID-19 on poor households in ghana.** GeoJournal 2021;1-13Asante D, Twumasi MA, Sakyi ASK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421184>
 44. **Sexual Orientation and the Incidence of COVID-19: Evidence from Understanding Society in the UK Longitudinal Household Study.** Healthcare (Basel) 2021; 9Booker CL, Meads C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442074>
 45. **Alcohol Consumption Patterns during COVID-19 Lockdown and Their Relationship with Perceived Immune Fitness and Reported COVID-19 Symptoms.** Healthcare (Basel) 2021; 9Merlo A, Hendriksen PA, Severeijns NR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442176>
 46. **Consideration about the society after the Covid-19.** Ind. Health 2021; Nakamura M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421101>
 47. **COVID-19 and Healthcare Worker: What We Need to Know.** Indian J. Dermatol. 2021; 66:264-271Jakhar D, Grover C, Kaur I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446949>
 48. **Potential Value of Electroacupuncture in the Treatment of Gastrointestinal Symptoms of COVID-19.** Inflamm. Bowel Dis. 2021; Yu X. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424332>
 49. **Assessment of Dietary Habits and Physical Activity Changes during the Full COVID-19 Curfew Period and Its Effect on Weight among Adults in Jeddah, Saudi Arabia.** Int J Environ Res Public Health 2021; 18Abdulsalam NM, Khateeb NA, Aljerbi SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444328>
 50. **Coping during COVID-19 Pandemic in Saudi Community: Religious Attitudes, Practices and Associated Factors.** Int J Environ Res Public Health 2021; 18Algahtani FD, Alzain MA, Haouas N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444400>
 51. **The Impact of COVID-19 Pandemic on Workplace Accidents in Korea.** Int J Environ Res Public Health 2021; 18Baek EM, Kim WY, Kwon YJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444154>
 52. **Resilience and Equity in a Time of Crises: Investing in Public Urban Greenspace Is Now More Essential Than Ever in the US and Beyond.** Int J Environ Res Public Health 2021; 18Bikomeye JC, Namin S, Anyanwu C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444169>
 53. **Effect of the COVID-19 Lockdown on Air Pollution in the Ostrava Region.** Int J Environ Res Public Health 2021; 18Bitta J, Svozilík V, Svozilíková Krakovská A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444011>

54. **COVID-19 Stressors on Migrant Workers in Vietnam: Cumulative Risk Consideration.** Int J Environ Res Public Health 2021; 18Bui HTT, Duong DM, Pham TQ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444521>
55. **Applying a Multi-Dimensional Digital Food and Nutrition Literacy Model to Inform Research and Policies to Enable Adults in the U.S. Supplemental Nutrition Assistance Program to Make Healthy Purchases in the Online Food Retail Ecosystem.** Int J Environ Res Public Health 2021; 18Consavage Stanley K, Harrigan PB, Serrano EL, Kraak VI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444084>
56. **Effects of Air Purifiers on the Spread of Simulated Respiratory Droplet Nuclei and Virus Aggregates.** Int J Environ Res Public Health 2021; 18Heo KJ, Park I, Lee G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444175>
57. **Do People Become More or Less Materialistic during Disasters? The Mediating Roles of Mortality Salience and Gratitude.** Int J Environ Res Public Health 2021; 18Jiang D, Liu S, Lee JC, Li LMW. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444313>
58. **Students' Intention of Visiting Urban Green Spaces after the COVID-19 Lockdown in China.** Int J Environ Res Public Health 2021; 18Liu J, Peng Z, Cai X *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444350>
59. **Knowledge, Attitudes, and Practices Related to Dietary Supplementation, before and during the COVID-19 Pandemic: Findings from a Cross-Sectional Survey in the Lebanese Population.** Int J Environ Res Public Health 2021; 18Mohsen H, Yazbeck N, Al-Jawaldeh A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444605>
60. **One Year of COVID-19 Pandemic in Italy: Effect of Sedentary Behavior on Physical Activity Levels and Musculoskeletal Pain among University Students.** Int J Environ Res Public Health 2021; 18Roggio F, Trovato B, Ravalli S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444427>
61. **The 2008 Financial Crisis and Changes in Lifestyle-Related Behaviors in Italy, Greece, Spain, and Portugal: A Systematic Review.** Int J Environ Res Public Health 2021; 18Sane Schepisi M, Di Napoli A, Ascitto R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444482>
62. **Perception of the Movement Control Order during the COVID-19 Pandemic: A Qualitative Study in Malaysia.** Int J Environ Res Public Health 2021; 18Tay YL, Abdullah Z, Chelladorai K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444527>
63. **Does COVID-19 Promote Self-Service Usage among Modern Shoppers? An Exploration of Pandemic-Driven Behavioural Changes in Self-Collection Users.** Int J Environ Res Public Health 2021; 18Wang X, Wong YD, Yuen KF. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444323>
64. **Measuring changes in alcohol use in Finland and Norway during the COVID-19 pandemic: Comparison between data sources.** Int. J. Methods Psychiatr. Res. 2021:e1892Mäkelä P, Rossow I, Moan IS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449127>
65. **Job Resignation in Nursing Homes During the COVID-19 Pandemic: The Role of Quality of Employer Communication.** J. Appl. Gerontol. 2021:7334648211040509Cimarolli VR, Bryant NS, Falzarano F, Stone R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428936>

66. **COVID-19 prevention, air pollution and transportation patterns in the absence of a lockdown.** J. Environ. Manage. 2021; 298:113522Chang HH, Meyerhoefer CD, Yang FA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426221>
67. **Relationship quality and objectively measured physical activity before and after implementation of COVID-19 stay-home orders.** J Health Psychol 2021:13591053211042075Cornelius T, Denes A, Webber KT *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435516>
68. **The impact of Corona pandemic on consumer's food consumption: Vulnerability of households with children and income losses and change in sustainable consumption behavior.** J Verbrauch Lebensm 2021:1-10Profeta A, Siddiqui SA, Smetana S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421498>
69. **Sodium Toxicity in the Nutritional Epidemiology and Nutritional Immunology of COVID-19.** Medicina (Kaunas) 2021; 57Brown RB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440945>
70. **Effect of COVID-19 on the relationship between Euro/USD exchange rate and oil price.** MethodsX 2021; 8:101262Devpura N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434784>
71. **COVID-19 and uncertainty spillovers in Indian stock market.** MethodsX 2021; 8:101199Guru BK, Das A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434724>
72. **Investor attention on COVID-19 and African stock returns.** MethodsX 2021; 8:101195lyke BN, Ho SY. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434722>
73. **Commentary on a method for testing resistance to shocks.** MethodsX 2021; 8:101194Narayan PK. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434721>
74. **A method to analyze the sectoral impact of Fiscal support for COVID-19 affected economies: The case of Oceania.** MethodsX 2021; 8:101293Narayanan BG, Sen R, Srivastava S, Mathur S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434813>
75. **Westerlund and Narayan predictability test: Step-by-step approach using COVID-19 and oil price data.** MethodsX 2021; 8:101201Sharma SS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434725>
76. **Assessing the online objective structured clinical examinations in urology qualifying exam for urology residents in Indonesia during COVID-19 time.** MethodsX 2021; 8:101316Sihombing AT, Taher A, Rodjani A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434836>
77. **Covid-19 interface with drug misuse and substance use disorders.** Neuropharmacology 2021:108766Cisneros IE, Cunningham KA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454912>
78. **Quality of Life of Vegetarians during the COVID-19 Pandemic in Brazil.** Nutrients 2021; 13Hargreaves SM, Nakano EY, Han H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444808>
79. **Changes in Selected Food Groups Consumption and Quality of Meals in Japanese School Children during the COVID-19 Pandemic.** Nutrients 2021; 13Horikawa C, Murayama N, Kojima Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444904>
80. **Correlates of Transitions in Food Insecurity Status during the Early Stages of the COVID-19 Pandemic among Ethnically Diverse Households in Central Texas.** Nutrients 2021; 13Janda KM, Ranjit N, Salvo D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444757>

81. **Feeding Children and Maintaining Food Service Operations during COVID-19: A Mixed Methods Investigation of Implementation and Financial Challenges.** *Nutrients* 2021; 13Kenney EL, Dunn CG, Mozaffarian RS *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444851>
82. **The Effects of COVID-19 on the Eating Habits of Children and Adolescents in Italy: A Pilot Survey Study.** *Nutrients* 2021; 13Pujia R, Ferro Y, Maurotti S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444801>
83. **Towards an In-Depth Understanding of Physical Activity and Eating Behaviours during COVID-19 Social Confinement: A Combined Approach from a Portuguese National Survey.** *Nutrients* 2021; 13Silva MN, Gregório MJ, Santos R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444845>
84. **A National Study of Nutrition and Nutritional Status of the Adult Polish Population in the Years 2017-2020 before and during the COVID-19 Pandemic-Design and Methods.** *Nutrients* 2021; 13Traczyk I, Raciborski F, Kucharska A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444727>
85. **Impacts of Digital Healthy Diet Literacy and Healthy Eating Behavior on Fear of COVID-19, Changes in Mental Health, and Health-Related Quality of Life among Front-Line Health Care Workers.** *Nutrients* 2021; 13Vu DN, Phan DT, Nguyen HC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444814>
86. **Sociodemographic and environmental health risk factor of COVID-19 in Jakarta, Indonesia: An ecological study.** *One Health* 2021; 13:100303Zakianis, Adzania FH, Fauzia S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423107>
87. **COVID-19 pandemic in Economic Community of West African States (ECOWAS) region: implication for capacity strengthening at Point of Entry.** *Pan Afr. Med. J.* 2021; 39:67Lokossou VK, Usman AB, Sombie I *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422190>
88. **Impact of Environmental Indicators on the COVID-19 Pandemic in Delhi, India.** *Pathogens* 2021; 10Mangla S, Pathak AK, Arshad M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451467>
89. **Clinical adaptation during the COVID-19 pandemic: Instructive lessons for the climate crisis.** *Pediatr. Dermatol.* 2021; 38:986-987Boos MD.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448222>
90. **Just a Reflection: Does Drug Repurposing Perpetuate Sex-Gender Bias in the Safety Profile?** *Pharmaceuticals (Basel)* 2021; 14Campesi I, Racagni G, Franconi F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451827>
91. **Using time-use diaries to track changing behavior across successive stages of COVID-19 social restrictions.** *Proc Natl Acad Sci U S A* 2021; 118Sullivan O, Gershuny J, Sevilla A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426496>
92. **COVID-19 transport restrictions in Ireland: impact on air quality and respiratory hospital admissions.** *Public Health* 2021; 198:156-160Quintyne KI, Kelly C, Sheridan A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455179>
93. **Qualitative Findings on the Impact of COVID-19 Restrictions on Australian Gay and Bisexual Men: Community Belonging and Mental Well-being.** *Qual. Health Res.* 2021:10497323211039204Philpot SP, Holt M, Murphy D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433350>
94. **[2020, Mulhouse, Covid-19: a lesson in history, Europe and resilience].** *Rev. Infirm.* 2021; 70:39-40Didelot N, Lefort H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446235>

95. **Assessing the Impacts of COVID-19 on the Industrial Sectors and Economy of China.** Risk Anal. 2021; Tan L, Wu X, Guo J, Santibanez-Gonzalez EDR.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448216>
96. **Practice of New Normal Lifestyles, Economic and Social Disruption, and Level of Happiness Among General Public in China in the Post-COVID-19 Era.** Risk Manag. Healthc. Policy 2021; 14:3383-3393 Lin X, Lin Y, Hu Z *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429670>
97. **Estimation of COVID-19 generated medical waste in the Kingdom of Bahrain.** Sci Total Environ 2021; 801:149642 Al-Omran K, Khan E, Ali N, Bilal M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425445>
98. **COVID-19 lockdown improved river water quality in China.** Sci Total Environ 2021; 802:149585 Liu D, Yang H, Thompson JR *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454149>
99. **COVid-19 influenced households' Interrupted Travel Schedules (COVHITS) survey: Lessons from the fall 2020 cycle.** Transp Policy (Oxf) 2021; 112:43-62 Wang K, Liu Y, Mashrur SM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446988>
100. **COVID-19 Propagation Model Based on Economic Development and Interventions.** Wirel Pers Commun 2021;1-11 Nian F, Shi Y, Cao J.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421225>

Pathology (11 articles)

1. **Placental histopathology after SARS-CoV-2 infection in pregnancy: a systematic review and meta-analysis.** Am J Obstet Gynecol MFM 2021;100468 Girolamo RD, Khalil A, Alameddine S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34425296>
2. **SARS-CoV-2 identified by transmission electron microscopy in lymphoproliferative and ischaemic intestinal lesions of COVID-19 patients with acute abdominal pain: two case reports.** BMC Gastroenterol. 2021; 21:334 Martin-Cardona A, Lloreta Trull J, Albero-González R *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34445965>
3. **Translational deep phenotyping of deaths related to the COVID-19 pandemic: protocol for a prospective observational autopsy study.** BMJ Open 2021; 11:e049083 Henningsen MJ, Khatam-Lashgari A, Olsen KB *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452963>
4. **COVID-19 post-vaccination lymphadenopathy: Report of cytological findings from fine needle aspiration biopsy.** Diagn. Cytopathol. 2021; Tan NJH, Tay KXJ, Wong SBJ, Nga ME. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432391>
5. **Postmortem Cardiopulmonary Pathology in Patients with COVID-19 Infection: Single-Center Report of 12 Autopsies from Lausanne, Switzerland.** Diagnostics (Basel) 2021; 11 Berezowska S, Lefort K, Ioannidou K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441292>
6. **Practicing Surgical Pathology at a Distance, Need of the Hour: Our Experience of a Single Tertiary Care Referral Cancer Centre Observational Study from Western India During Covid-19 Pandemic.** Indian J Surg Oncol 2021;1-5 Sharma A, Vyas PG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421278>
7. **A spark of hope: histopathological and functional recovery after critical COVID-19.** Infection 2021;1-5 Boehm A, Luger AK, Schmitz K *et al.*

- <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435313>
8. **The impact of COVID-19 restrictions on pathology service utilisation.** Intern. Med. J. 2021; Gillam MH, Roughead E, Tavella R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432345>
 9. **Molecular Pathology Demonstration of SARS-CoV-2 in Cytotrophoblast from Placental Tissue with Chronic Histiocytic Intervillositis, Trophoblast Necrosis and COVID-19.** J Dev Biol 2021; 9Schwartz DA, Bugatti M, Santoro A, Facchetti F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449643>
 10. **Pathological Features in 100 Deceased Patients With COVID-19 in Correlation With Clinical and Laboratory Data.** Pathol. Oncol. Res. 2021; 27:1609900Mikhaleva LM, Cherniaev AL, Samsonova MV *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421396>
 11. **Clinical and Histopathologic Features of a Feline SARS-CoV-2 Infection Model Are Analogous to Acute COVID-19 in Humans.** Viruses 2021; 13Rudd JM, Tamil Selvan M, Cowan S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452415>

Protection (32 articles)

1. **Skin Exposures, Hand Eczema and Facial Skin Disease in Healthcare Workers During the COVID-19 Pandemic: A Cross-sectional Study.** Acta Derm. Venereol. 2021; Hamnerius N, Pontv@n A, Bergendorff O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427318>
2. **Average and longest expected treatment times for ultraviolet light disinfection of rooms.** Am. J. Infect. Control 2021; Dexter F, Birchansky B, Epstein RH, Loftus RW. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437951>
3. **Disinfectant use by K-12 school staff to combat SARS-CoV-2.** Am. J. Infect. Control 2021; Hilbert TJ, Brancato C, Carter K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455031>
4. **Environmental testing for SARS-CoV-2 in three tertiary-care hospitals during the peak of the third COVID-19 wave.** Am. J. Infect. Control 2021; Maltezou HC, Tseroni M, Daflos C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455029>
5. **Risk of SARS-CoV-2 transmission from universally masked healthcare workers to patients or residents: A prospective cohort study.** Am. J. Infect. Control 2021; Williams VR, Maze Dit Mieusement L, Tomiczek N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455030>
6. **Disaster relief supply chain design for personal protection equipment during the COVID-19 pandemic.** Appl Soft Comput 2021; 112:107809Mosallanezhad B, Chouhan VK, Paydar MM, Hajiaghaei-Keshteli M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421442>
7. **Codevelopment of COVID-19 infection prevention and control guidelines in lower-middle-income countries: the 'SPRINT' principles.** BMJ Glob Health 2021; 6Haldane V, Ratnapalan S, Perera N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452942>
8. **Helmet Non-Invasive Ventilation for COVID-19 Patients (Helmet-COVID): study protocol for a multicentre randomised controlled trial.** BMJ Open 2021; 11:e052169Arabi YM, Tlayjeh H, Aldekhyl S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446500>
9. **Mask Mandates and COVID-19 Related Symptoms in the US.** Clinicoecon Outcomes Res 2021; 13:757-766Nguyen M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446500>

term=34429625

10. **(Un)mask yourself! Effects of face masks on facial mimicry and emotion perception during the COVID-19 pandemic.** Cogn. Emot. 2021;1-11Kastendieck T, Zillmer S, Hess U. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432603>
11. **The Association of the Prolonged Use of Personal Protective Equipment and Face Mask During COVID-19 Pandemic With Various Dermatologic Disease Manifestations: A Systematic Review.** Cureus 2021; 13:e16544Barnawi GM, Barnawi AM, Samarkandy S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430151>
12. **Evaluating the Use of an Aerosol Box During Simulated Intubations.** Cureus 2021; 13:e16507de Lima A, Chen MJ, Abbas A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430121>
13. **Testing the proper fit of respirator masks during the COVID-19 pandemic - A study among medical staff.** Deutsches Arzteblatt International 2021; 118:250-251Schumacher J, Lange C, Kleinjohann L, Carvalho C.
14. **Perception of the Sports Social Environment After the Development and Implementation of an Identification Tool for Contagious Risk Situations in Sports During the COVID-19 Pandemic.** Front. Psychol. 2021; 12:610421Lete-Lasa JR, Martin-Acero R, Rico-Diaz J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421696>
15. **Incorrect Facemask-Wearing Detection Using Convolutional Neural Networks with Transfer Learning.** Healthcare (Basel) 2021; 9Tomás J, Rego A, Viciano-Tudela S, Lloret J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442187>
16. **Environmental Surface Contamination with SARS-CoV-2: Toilets as the Most Contaminated Surfaces in COVID-19 Referral Hospital.** Hosp. Top. 2021;1-8Falahi S, Bastani E, Pakzad I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445942>
17. **The CircumVent Project: a CPAP/O(2) helmet solution for non-invasive ventilation using an implementation research framework.** Implement Sci Commun 2021; 2:93Ahonkhai AA, Musa AZ, Fenton AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446110>
18. **Dentist Related Factors Associated with Implementation of COVID-19 Protective Measures: A National Survey.** Int J Environ Res Public Health 2021; 18Carvalho JC, Declerck D, Jacquet W, Bottenberg P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444131>
19. **Individual and COVID-19-Specific Indicators of Compliance with Mask Use and Social Distancing: The Importance of Norms, Perceived Effectiveness, and State Response.** Int J Environ Res Public Health 2021; 18Gette JA, Stevens AK, Littlefield AK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444465>
20. **Face Covered and Six Feet Apart: Behavioral Awareness Predicts Greater Adherence to Public Health Guidelines during the COVID-19 Pandemic.** Int J Environ Res Public Health 2021; 18Schneider A, Kroska EB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443996>
21. **Indoor Air Quality Evaluation Using Mechanical Ventilation and Portable Air Purifiers in an Academic Dentistry Clinic during the COVID-19 Pandemic in Greece.** Int J Environ Res Public Health 2021; 18Tzoutzas I, Maltezou HC, Barmparesos N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444634>
22. **The Impact of Face Masks on the Emotional Reading Abilities of Children-A Lesson From a Joint School-University Project.** Iperception 2021;

12:20416695211038265Carbon CC, Serrano M.

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447567>

23. **Protecting Nursing Homes and Long-Term Care Facilities From COVID-19: A Rapid Review of International Evidence.** *J. Am. Med. Dir. Assoc.* 2021; Dykgraaf SH, Matenge S, Desborough J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428466>
24. **Occupational facial dermatoses related to mask use in healthcare professionals.** *J Cosmet Dermatol* 2021; Altun E, Topaloglu Demir F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450685>
25. **"Risk of SARS-CoV-2 Transmission following exposure during Dental Treatment -A National Cohort Study".** *J. Dent.* 2021:103791Natapov DL, Schwartz DD, Herman DHD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455018>
26. **Time-course evaluation of the quantitative antigen test for severe acute respiratory syndrome coronavirus 2: The potential contribution to alleviating isolation of COVID-19 patients.** *J Infect Chemother* 2021; Nomoto H, Yamamoto K, Yamada G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454833>
27. **An optimal feature enriched region of interest (ROI) extraction for periocular biometric system.** *Multimed Tools Appl* 2021:1-19Kumari P, K RS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429711>
28. **Justifying quarantine in preventing the spread of COVID-19 in healthcare.** *Occup. Med. (Lond.)* 2021; Kerr GM, Crowley M, O'Reilly EJ, Cunningham C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455444>
29. **Availability of PPEs and training status of health professionals on COVID-19 in Silte Zone, Southern Ethiopia.** *Pan Afr. Med. J.* 2021; 39:38Muze M, Abdella B, Mustefa A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422161>
30. **Observance of preventive standards against COVID-19 transmission in operating rooms: A cross-sectional study.** *Perioper Care Oper Room Manag* 2021; 25:100212Lotfi M, Sheikhalipour Z, Zamanzadeh V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423144>
31. **Biomedical Applications of Antiviral Nanohybrid Materials Relating to the COVID-19 Pandemic and Other Viral Crises.** *Polymers (Basel)* 2021; 13Homaieghar S, Liu Q, Kordbacheh D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451371>
32. **The high level of adherence to personal protective equipment in health care workers efficiently protects them from COVID-19 infection.** *Work* 2021; 69:1191-1196Zangoue M, Safari H, Royce SG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421000>

Pulmonary disease (30 articles)

1. **Increased Angiotensin-Converting Enzyme 2 and Loss of Alveolar Type II Cells in COVID-19 Related ARDS.** *Am J Respir Crit Care Med* 2021; Gerard L, Lecocq M, Bouzin C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449302>
2. **Acute Lung Injury Biomarkers in the Prediction of COVID-19 Severity: Total Thiol, Ferritin and Lactate Dehydrogenase.** *Antioxidants (Basel)* 2021; 10Martinez Mesa A, Cabrera César E, Martín-Montañez E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439469>

3. **Home spirometry utilisation in telemedicine clinic for cystic fibrosis care during COVID-19 pandemic: a quality improvement process.** *BMJ Open Qual* 2021; 10:Compton M, List R, Starheim E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433580>
4. **Tension pneumomediastinum and diffuse subcutaneous emphysema with severe acute respiratory syndrome coronavirus 2 infection requiring operative management for impending airway collapse: A case report.** *Clin Case Rep* 2021; 9:e04656Lin KP, Stefaniak C, Bunch CM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430018>
5. **Real-Life Benefit of Omalizumab in Improving Control of Bronchial Asthma During COVID-19 Pandemic.** *Cureus* 2021; 13:e17268Leru PM, Anton VF. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422507>
6. **Risk Factors for Development and Severity of COVID-19 in COPD Patients.** *Front Med (Lausanne)* 2021; 8:714570Bonato M, Semenzato U, Tinè M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434947>
7. **Psychosocial Well-Being of Patients with Kidney Failure Receiving Haemodialysis during a Pandemic: A Survey.** *Healthcare (Basel)* 2021; 9McKeaveney C, Noble H, Carswell C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442224>
8. **Psychometric Validation of the Arabic Fear of Illness and Virus Evaluation.** *Int J Environ Res Public Health* 2021; 18Tounsi A, Alammar S, Almaflehi N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444275>
9. **The drop in reported invasive pneumococcal disease among adults during the first COVID-19 wave in the Netherlands explained.** *Int J Infect Dis* 2021; Dirkx KKT, Mulder B, Post AS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455081>
10. **Pneumonia Due to Human Coronavirus OC43 in an Immunocompetent Adult Detected by Multiplex Polymerase Chain Reaction.** *Intern Med* 2021; Kawataki M, Ito A, Ishida T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433714>
11. **Comparison of COVID-19 and Non-COVID-19 Pneumonia in Down Syndrome.** *J Clin Med* 2021; 10Real de Asua D, Mayer MA, Ortega MDC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442043>
12. **A Case of Severe COVID-19 Pneumonia Diagnosed in Bronchoscopy With Negative Repeated Nasopharyngeal Swabs.** *J. Med. Cases* 2021; 12:217-219Shukha Y, Makhoul K, Abu-Elhija J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429794>
13. **Prevalence and clinical outcomes of pleural effusion in COVID-19 patients: A systematic review and meta-analysis.** *J Med Virol* 2021; Rathore SS, Hussain N, Manju AH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449896>
14. **Lung transplantation for coronavirus disease 2019 (COVID-19): The who, what, where, when, and why.** *J. Thorac. Cardiovasc. Surg.* 2021; Schaheen L, Bremner RM, Walia R, Smith MA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420791>
15. **Pneumothorax in otherwise healthy non-intubated patients suffering from COVID-19 pneumonia: a systematic review.** *J Thorac Dis* 2021; 13:4519-4529Agrafiotis AC, Rummens P, Lardinois I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422378>
16. **Pleural abnormalities in COVID-19: a narrative review.** *J Thorac Dis* 2021; 13:4484-4499Saha BK, Chong WH, Austin A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422375>

17. **Angiotensin-Converting Enzyme 2 (ACE2) in the Context of Respiratory Diseases and Its Importance in Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection.** Pharmaceuticals (Basel) 2021; 14Ambrocio-Ortiz E, Pérez-Rubio G, Del Ángel-Pablo AD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451902>
18. **Lung Fibrosis after COVID-19: Treatment Prospects.** Pharmaceuticals (Basel) 2021; 14Bazdyrev E, Rusina P, Panova M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451904>
19. **Pharmacological Interactions of Nintedanib and Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis in Times of COVID-19 Pandemic.** Pharmaceuticals (Basel) 2021; 14Serra López-Matencio JM, Gómez M, Vicente-Rabaneda EF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451916>
20. **Recent advancements in pulmonary arterial hypertension and right heart failure research: overview of selected abstracts from ATS2020 and emerging COVID-19 research.** Pulm Circ 2021; 11:20458940211037274Potus F, Frump AL, Umar S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434543>
21. **Managing an adult CF population in the COVID-19 pandemic-1 year on.** QJM 2021; Nazareth D, Sumner C, Daniels J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432060>
22. **Diagnosing Lemierre's Syndrome as the Cause of Multifocal Pneumonia During the COVID-19 Pandemic.** R I Med J (2013) 2021; 104:46-49Soares C, Blackwood K, Vecchio M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437666>
23. **The effect of the outbreak of COVID-19 on respiratory physicians and healthcare in Japan: Serial nationwide surveys by the Japanese Respiratory Society.** Respir Investig 2021; Kamada K, Konno S, Kaneko T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446400>
24. **Respiratory function assessment at the time of a new respiratory virus pandemic.** Respir. Med. 2021; 187:106570LoMauro A, Gervasoni F, Andreoli A, Aliverti A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450474>
25. **Lung transplantation for COVID-19-associated acute respiratory distress syndrome: The first French patient.** Respir Med Res 2021; 80:100851Glorion M, De Wolf J, Zuber B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433119>
26. **Small airway function in Finnish COVID-19 survivors.** Respir Res 2021; 22:237Lindahl A, Reijula J, Malmberg LP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446020>
27. **Impact of COVID-19 on social determinants of health for adults with cystic fibrosis.** Ther. Adv. Respir. Dis. 2021; 15:17534666211037459Albon D, Bruschwein H, Soper M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420457>
28. **Susceptibility of lung cancer patients to COVID-19: A review of the pandemic data from multiple nationalities.** Thorac Cancer 2021; Lemos AEG, Silva GR, Gimba ERP, Matos ADR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435733>
29. **COVID-19 Vaccination in Patients with Severe Asthma on Biologic Treatment: Safety, Tolerability, and Impact on Disease Control.** Vaccines (Basel) 2021; 9Caminati M, Guarnieri G, Batani V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451978>
30. **Association of asthma comorbidity with poor prognosis of coronavirus disease 2019.** World Allergy Organ J 2021; 14:100576Kim SH, Ji E, Won SH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422204>

Renal disease (19 articles)

1. **Overview of Acute Kidney Manifestations and Management of Patients with COVID-19.** *Am J Physiol Renal Physiol* 2021; Menez S, Parikh CR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448642>
2. **Impact of First Wave COVID-19 Crisis on Dialysis Parameters of COVID-Free Hemodialysis Patients: A NephroCare France Longitudinal Retrospective Cohort Study.** *Blood Purif.* 2021;1-9Chazot C, Weis L, Hebibi H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438399>
3. **Psychological Concerns of Children Undergoing Kidney Transplantation During the Pandemic: Single-centre Experience.** *BMJ Paediatr Open* 2021; 5:e001174Paessler A, Boyle S, Marks S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423141>
4. **COVID-19 reinfection or reactivation in a renal transplant patient.** *Clin Case Rep* 2021; 9:e04672Abolghasemi S, Zolfaghari F, Naeimipour M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430026>
5. **Clinical efficacy and safety of combination therapy of tocilizumab and steroid pulse therapy for critical COVID-19 in HD patients.** *Clin. Exp. Nephrol.* 2021;1-11Toda M, Fujii K, Yoshifuji A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436742>
6. **Acute Pericarditis Due to SARS-COV-2 in a Kidney Transplant Recipient.** *Cureus* 2021; 13:e16547Gill H, Beinhoff P, Lamberg M, Mehta T. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430154>
7. **COVID-19 prevalence and mortality in chronic dialysis patients.** *Deutsches Arzteblatt International* 2021; 118:195-196Hoxha E, Suling A, Turner JE *et al.*
8. **Acute Kidney Injury in Pediatric Acute SARS-CoV-2 Infection and Multisystem Inflammatory Syndrome in Children (MIS-C): Is There a Difference?** *Front Pediatr* 2021; 9:692256Grewal MK, Gregory MJ, Jain A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434905>
9. **Perfluorobutanoic acid (PFBA): No high-level accumulation in human lung and kidney tissue.** *Int J Hyg Environ Health* 2021; 237:113830Abraham K, El-Khatib AH, Schwerdtle T, Monien BH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450542>
10. **COVID-19 Vaccines in Patients with Maintenance Hemodialysis.** *J Pers Med* 2021; 11Yen CC, Lin SY, Chen SC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442432>
11. **Delirium is a good predictor for poor outcomes from coronavirus disease 2019 (COVID-19) pneumonia: A systematic review, meta-analysis, and meta-regression.** *J. Psychiatr. Res.* 2021; 142:361-368Hariyanto TI, Putri C, Hananto JE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425488>
12. **ANCA-associated Glomerulonephritis Following the Pfizer-BioNTech COVID-19 Vaccine.** *Kidney Int Rep* 2021; Dube GK, Benvenuto LJ, Batal I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423176>
13. **Update on: Experiences from the German COVID-19 register.** *Nephrologe* 2021; 16:311-313Hoxha E.
14. **Mortality in Hemodialysis Patients with COVID-19, the Effect of Paricalcitol or Calcimimetics.** *Nutrients* 2021; 13Arenas Jimenez MD, González-Parra E, Riera M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444716>

15. **COVID-19 Infection in Kidney Transplant Patients: An Italian One Year Single Centre Experience.** Pathogens 2021; 10Campise M, Alfieri CM, Perego M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451428>
16. **Renal Thrombotic Microangiopathy in Concurrent COVID-19 Vaccination and Infection.** Pathogens 2021; 10De Fabritiis M, Angelini ML, Fabbriozio B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451509>
17. **Kidney implications of SARS-CoV2 infection in children.** Pediatr. Nephrol. 2021;1-15Bjornstad EC, Seifert ME, Sanderson K, Feig DI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453600>
18. **Coronavirus Disease (COVID)-19 and Diabetic Kidney Disease.** Pharmaceuticals (Basel) 2021; 14Srivastava SP, Srivastava R, Chand S, Goodwin JE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451848>
19. **The Efficacy of COVID-19 Vaccines in Chronic Kidney Disease and Kidney Transplantation Patients: A Narrative Review.** Vaccines (Basel) 2021; 9Hou YC, Lu KC, Kuo KL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452010>

Reviews (70 articles)

1. **Antibiotics Prescribing in Intensive Care Settings during the COVID-19 Era: A Systematic Review.** Antibiotics (Basel) 2021; 10Abu-Rub LI, Abdelrahman HA, Johar AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438985>
2. **Well-Known and Novel Players in Endothelial Dysfunction: Updates on a Notch(ed) Landscape.** Biomedicines 2021; 9Fortini F, Viecei Dalla Sega F, Marracino L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440201>
3. **COVID-19 Pathogenesis: From Molecular Pathway to Vaccine Administration.** Biomedicines 2021; 9Nappi F, Iervolino A, Avtaar Singh SS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440107>
4. **Long COVID-19 Syndrome: A Comprehensive Review of Its Effect on Various Organ Systems and Recommendation on Rehabilitation Plans.** Biomedicines 2021; 9Yan Z, Yang M, Lai CL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440170>
5. **Update: Drug treatment options for coronavirus disease 2019 (COVID-19).** Biosci Trends 2021; Shao Y, Chen J, Lu H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433754>
6. **D-dimers: a most misunderstood test.** Br. J. Hosp. Med. (Lond.) 2021; 82:1-5Carter-Brzezinski L, Houston S, Thachil J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431346>
7. **Epidemiologic and clinical characteristics of multisystem inflammatory syndrome in adults: a rapid review.** Can. Commun. Dis. Rep. 2021; 47:305-315Atchessi N, Edjoc R, Striha M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421386>
8. **Temporal association between the COVID-19 Ad26.COV2.S vaccine and acute myocarditis: A case report and literature review.** Cardiovasc. Revasc. Med. 2021; Sulemankhil I, Abdelrahman M, Negi SI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420869>
9. **Possible Male Reproduction Complications after Coronavirus Pandemic.** Cell J 2021; 23:382-388Hezavehei M, Shokoohian B, Nasr-Esfahani MH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455712>

10. **The Immune System Throws Its Traps: Cells and Their Extracellular Traps in Disease and Protection.** Cells 2021; 10:Conceição-Silva F, Reis CSM, De Luca PM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440659>
11. **Play Behaviors in Children during the COVID-19 Pandemic: A Review of the Literature.** Children (Basel) 2021; 8:Kourti A, Stavridou A, Panagouli E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438597>
12. **Tocilizumab for coronavirus disease 2019 in pregnancy and lactation: a narrative review.** Clin Microbiol Infect 2021; Jorgensen SCJ, Lapinsky SE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438068>
13. **COVID-19 and Liver dysfunction: Epidemiology, Association and Potential Mechanisms.** Clin Res Hepatol Gastroenterol 2021;101793Du M, Yang DS, Liu M, Liu J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428501>
14. **COVID-19 and exacerbation of dermatological diseases: A review of the available literature.** Dermatol Ther 2021; Aram K, Patil A, Goldust M, Rajabi F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453380>
15. **Machine Learning Approaches to Identify Patient Comorbidities and Symptoms That Increased Risk of Mortality in COVID-19.** Diagnostics (Basel) 2021; 11:Aktar S, Talukder A, Ahamad MM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441317>
16. **Hand-Held Ultrasound of the Lung: A Systematic Review.** Diagnostics (Basel) 2021; 11:Haji-Hassan M, Lenghel LM, Bolboacă SD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441315>
17. **The Applications of Artificial Intelligence in Chest Imaging of COVID-19 Patients: A Literature Review.** Diagnostics (Basel) 2021; 11:Laino ME, Ammirabile A, Posa A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441252>
18. **Positive association between outdoor air pollution and the incidence and severity of COVID-19. A review of the recent scientific evidences.** Environ. Res. 2021; 203:111930Marquv@s M, Domingo JL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425111>
19. **Association of hypothyroidism with acute COVID-19: a systematic review.** Expert Rev. Endocrinol. Metab. 2021;1-7Malik J, Zaidi SMJ, Waqar AU *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424110>
20. **Neuropsychiatric Aspects of COVID-19 - A Narrative Overview.** Fortschritte der Neurologie Psychiatrie 2021; Rittmannsberger H, Barth M, Malik P, Yazdi K.
21. **Update Advances on C-Reactive Protein in COVID-19 and Other Viral Infections.** Front. Immunol. 2021; 12:720363Luan YY, Yin CH, Yao YM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447386>
22. **Specific Features of the Coagulopathy Signature in Severe COVID-19 Pneumonia.** Front Med (Lausanne) 2021; 8:675191Blot M, de Maistre E, Bourredjem A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422854>
23. **Auditory Disturbances and SARS-CoV-2 Infection: Brain Inflammation or Cochlear Affection? Systematic Review and Discussion of Potential Pathogenesis.** Front. Neurol. 2021; 12:707207De Luca P, Scarpa A, Ralli M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421805>
24. **Intussusception in an Infant With SARS-CoV-2 Infection: A Case Report and a Review of the Literature.** Front Pediatr 2021; 9:693348Castellazzi ML, Corsello A, Cerrato L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422721>
25. **Infection Spread, Recovery, and Fatality from Coronavirus in Different Provinces of Saudi Arabia.** Healthcare (Basel) 2021; 9:Alharbi MM, Rabbani SI,

- Asdaq SMB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442068>
26. **Recent Trends in Sedentary Time: A Systematic Literature Review.** Healthcare (Basel) 2021; 9Fang H, Jing Y, Chen J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442106>
 27. **Calprotectin and SARS-CoV-2: A Brief-Report of the Current Literature.** Healthcare (Basel) 2021; 9Giuffrè M, Vetrugno L, Di Bella S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442092>
 28. **Epidemiological models and COVID-19: a comparative view.** Hist Philos Life Sci 2021; 43:104Iranzo V, Pérez-González S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432152>
 29. **Current Use of Ivermectin in Dermatology, Tropical Medicine, and COVID-19: An Update on Pharmacology, Uses, Proven and Varied Proposed Mechanistic Action.** Indian Dermatol Online J 2021; 12:500-514Mathachan SR, Sardana K, Khurana A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430453>
 30. **Clinical Dermatology and COVID-19 Pandemic: Narrative Review.** Indian J. Dermatol. 2021; 66:246-255Mintoff D, Chatterjee M, Podder I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446947>
 31. **Virology and Etiopathogenesis of COVID-19 with Special Reference to Cutaneous Implications.** Indian J. Dermatol. 2021; 66:231-236Sarkar R, Bhargava S, Mendiratta V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446945>
 32. **COVID-19 Vaccine in Pregnant and Lactating Women: A Review of Existing Evidence and Practice Guidelines.** Infect Dis Rep 2021; 13:685-699Garg I, Shekhar R, Sheikh AB, Pal S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449637>
 33. **Coronavirus disease-2019: A review on the disease exacerbation via cytokine storm and concurrent management.** Int Immunopharmacol 2021; 99:108049Sunkara H, Dewan SMR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426104>
 34. **A Rapid Review on the Influence of COVID-19 Lockdown and Quarantine Measures on Modifiable Cardiovascular Risk Factors in the General Population.** Int J Environ Res Public Health 2021; 18Freiberg A, Schubert M, Romero Starke K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444316>
 35. **The Early Stage of the COVID-19 Outbreak in Tunisia, France, and Germany: A Systematic Mapping Review of the Different National Strategies.** Int J Environ Res Public Health 2021; 18Laffet K, Haboubi F, Elkadri N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444371>
 36. **Process Improvement Approaches for Increasing the Response of Emergency Departments against the COVID-19 Pandemic: A Systematic Review.** Int J Environ Res Public Health 2021; 18Ortiz-Barrios MA, Coba-Blanco DM, Alfaro-Saíz JJ, Stand-González D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444561>
 37. **Applications of Artificial Intelligence, Machine Learning, Big Data and the Internet of Things to the COVID-19 Pandemic: A Scientometric Review Using Text Mining.** Int J Environ Res Public Health 2021; 18Rodríguez-Rodríguez I, Rodríguez JV, Shirvanizadeh N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444327>
 38. **The Pandemic beyond the Pandemic: A Scoping Review on the Social Relationships between COVID-19 and Antimicrobial Resistance.** Int J Environ Res Public Health 2021; 18Toro-Alzate L, Hofstraat K, de Vries DH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444511>

39. **Special Considerations in the Management of Autoimmune Hepatitis in COVID-19 Hotspots: A Review.** J Clin Transl Hepatol 2021; 9:568-575 Madhu D, Sharma S, Agarwal A, Saraya A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447687>
40. **The future of COVID-19: A vaccine review.** J Infect Public Health 2021; Vashi AP, Coiado OC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454862>
41. **Impact of olfactory dysfunction on quality of life in coronavirus disease 2019 patients: a systematic review.** J. Laryngol. Otol. 2021;1-6 Saniasiaya J, Prepageran N. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425929>
42. **Systematic Review on the Mental Health and Treatment Impacts of COVID-19 on Neurocognitive Disorders.** J Pers Med 2021; 11 Dellazizzo L, Léveillé N, Landry C, Dumais A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442390>
43. **COVID and Animal Trials: A Systematic Review.** J. Pharm. Bioallied Sci. 2021; 13:S31-s35 Moothedath M, Muhamood M, Bhosale YS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447038>
44. **Pneumothorax in otherwise healthy non-intubated patients suffering from COVID-19 pneumonia: a systematic review.** J Thorac Dis 2021; 13:4519-4529 Agrafiotis AC, Rummens P, Lardinois I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422378>
45. **Pleural abnormalities in COVID-19: a narrative review.** J Thorac Dis 2021; 13:4484-4499 Saha BK, Chong WH, Austin A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422375>
46. **Efficacy of Different Types of Therapy for COVID-19: A Comprehensive Review.** Life (Basel) 2021; 11 Starshinova A, Malkova A, Zinchenko U *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440497>
47. **The Anti-Viral Applications of Marine Resources for COVID-19 Treatment: An Overview.** Mar. Drugs 2021; 19 Geahchan S, Ehrlich H, Rahman MA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436248>
48. **Are We Paving the Way to Dig Out of the "Pandemic Hole"? A Narrative Review on SARS-CoV-2 Vaccination: From Animal Models to Human Immunization.** Med Sci (Basel) 2021; 9 Tardiolo G, Brianti P, Sapienza D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449681>
49. **An Overview of Vaccines against SARS-CoV-2 in the COVID-19 Pandemic Era.** Pathogens 2021; 10 Pascual-Iglesias A, Canton J, Ortega-Prieto AM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451494>
50. **Janus Kinase Inhibitors and Coronavirus Disease (COVID)-19: Rationale, Clinical Evidence and Safety Issues.** Pharmaceuticals (Basel) 2021; 14 Gatti M, Turrini E, Raschi E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451835>
51. **Antiviral Therapeutic Approaches for SARS-CoV-2 Infection: A Systematic Review.** Pharmaceuticals (Basel) 2021; 14 Gil Martínez V, Avedillo Salas A, Santander Ballestín S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451833>
52. **Prevalence and Significance of Hypermetabolic Lymph Nodes Detected by 2-[(18)F]FDG PET/CT after COVID-19 Vaccination: A Systematic Review and a Meta-Analysis.** Pharmaceuticals (Basel) 2021; 14 Treglia G, Cuzzocrea M, Giovanella L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451859>
53. **Pharmacists' Perceptions and Drivers of Immunization Practices for COVID-19 Vaccines: Results of a Nationwide Survey Prior to COVID-19 Vaccine Emergency Use Authorization.** Pharmacy (Basel) 2021; 9 Jacob SS, Bridgeman MB, Kim H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449708>

54. **Multiple cranial nerve palsies revealing blast crisis in patient with chronic myeloid leukemia in the accelerated phase under nilotinib during severe infection with SARS-COV-19 virus: Case report and review of literature.** Radiol Case Rep 2021; Bouchlarhem A, Haddar L, Lamzouri O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422148>
55. **Pseudocavitation Sign at Chest CT Scan due to COVID-19 Pneumonia: A report of Five Cases and Literature Review.** Radiol Case Rep 2021; Kosem EG, Balik R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422146>
56. **The Challenges and Successes of Dealing with the COVID-19 Pandemic in India.** Res. Rep. Trop. Med. 2021; 12:205-218 Sharma J, Sharma D, Tiwari D, Vishwakarma V. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429681>
57. **Systematic Review on Treatment Trials of Tocilizumab- A Repurposing Drug Against COVID-19.** Rev. Recent Clin. Trials 2021; Banerjee S, Mahapatra AK. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429051>
58. **Effectivity of mesenchymal stem cells for bleomycin-induced pulmonary fibrosis: a systematic review and implication for clinical application.** Stem Cell. Res. Ther. 2021; 12:470 Zhao Y, Yan Z, Liu Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420515>
59. **Can we turn off the "Covid-biting-tail" inflammation?** Transl Med UniSa 2020; 23:39-41 Valentina G, Amelia F, Carmine S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447711>
60. **COVID-19-associated mucormycosis: Case report and systematic review.** Travel Med Infect Dis 2021; 44:102148 Dilek A, Ozaras R, Ozkaya S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454090>
61. **COVID-19 and mucormycosis in Latin America - An emerging concern.** Travel Med Infect Dis 2021; 44:102156 Rodriguez-Morales AJ, Mamani-García CS, Nuñez-Lupaca JN *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454089>
62. **The expression of hACE2 receptor protein and its involvement in SARS-CoV-2 entry, pathogenesis, and its application as potential therapeutic target.** Tumour Biol. 2021; 43:177-196 Al-Zaidan L, Mestiri S, Raza A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420993>
63. **COVID-19 Vaccine Hesitancy-A Scoping Review of Literature in High-Income Countries.** Vaccines (Basel) 2021; 9Aw J, Seng JJB, Seah SSY, Low LL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452026>
64. **The Efficacy of COVID-19 Vaccines in Chronic Kidney Disease and Kidney Transplantation Patients: A Narrative Review.** Vaccines (Basel) 2021; 9Hou YC, Lu KC, Kuo KL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452010>
65. **Hesitant or Not Hesitant? A Systematic Review on Global COVID-19 Vaccine Acceptance in Different Populations.** Vaccines (Basel) 2021; 9Salomoni MG, Di Valerio Z, Gabrielli E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452000>
66. **Post-COVID-19 Arthritis and Sacroiliitis: Natural History with Longitudinal Magnetic Resonance Imaging Study in Two Cases and Review of the Literature.** Viruses 2021; 13Colatutto D, Sonaglia A, Zabotti A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452422>
67. **What Is the Role of Therapeutic Plasma Exchange as an Adjunctive Treatment in Severe COVID-19: A Systematic Review.** Viruses 2021; 13Krzych Ł J, Putowski Z, Czok M, Hofman M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452349>
68. **Human Coronaviruses: Counteracting the Damage by Storm.** Viruses 2021; 13Schoeman D, Fielding BC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452323>

69. **What paradigm shifts occurred in the management of acute diverticulitis during the COVID-19 pandemic? A scoping review.** World J Clin Cases 2021; 9:6759-6767 Gallo G, Ortenzi M, Grossi U *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447822>
70. **Cytokine storm syndrome in SARS-CoV-2: a review.** Z Naturforsch C J Biosci 2021; Wahid B, Rani N, Idrees M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428364>

Risk factors (90 articles)

1. **Evaluation of four novel prognostic scores on admission for COVID-19 mortality. An experience from a Mediterranean tertiary center.** Acta Clin. Belg. 2021;1-5 Velissaris D, Paraskevas T, Oikonomou E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433382>
2. **Validation of the 4C Deterioration Model for COVID-19 in a UK teaching hospital during Wave 2.** Am. J. Med. Sci. 2021; Cowan SL, Wiegand M, Preller J, Goudie RJB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437869>
3. **Increased Angiotensin-Converting Enzyme 2 and Loss of Alveolar Type II Cells in COVID-19 Related ARDS.** Am J Respir Crit Care Med 2021; Gerard L, Lecocq M, Bouzin C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449302>
4. **Worldwide association of lifestyle-related factors and COVID-19 mortality.** Ann. Med. 2021; 53:1528-1533 Wang J, Sato T, Sakuraba A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435518>
5. **Acute Lung Injury Biomarkers in the Prediction of COVID-19 Severity: Total Thiol, Ferritin and Lactate Dehydrogenase.** Antioxidants (Basel) 2021; 10 Martinez Mesa A, Cabrera César E, Martín-Montañez E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34439469>
6. **Exploring the Role of Heavy Metals and Their Derivatives on the Pathophysiology of COVID-19.** Biol. Trace Elem. Res. 2021;1-12 Bahrami A, Arabestani MR, Taheri M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448983>
7. **Clinical Outcome Prediction in COVID-19 Patients by Lymphocyte Subsets Analysis and Monocytes' iTNF- α Expression.** Biology (Basel) 2021; 10 Madonna G, Sale S, Capone M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439967>
8. **Alcohol, Cannabis and Crossfading: Concerns for COVID-19 Disease Severity.** Biology (Basel) 2021; 10 Sivaraman V, Richey MM, Nasir A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440011>
9. **suPAR Cut-Offs for Risk Stratification in Patients With Symptoms of COVID-19.** Biomark. Insights 2021; 16:11772719211034685 Altintas I, Eugen-Olsen J, Seppälä S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421295>
10. **MMP-2 and MMP-9 levels in plasma are altered and associated with mortality in COVID-19 patients.** Biomed. Pharmacother. 2021; 142:112067 C DA-M, Couto AES, Campos LCB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449310>
11. **Role of SpO₂/FiO₂ Ratio and ROX Index in Predicting Early Invasive Mechanical Ventilation in COVID-19. A Pragmatic, Retrospective, Multi-Center Study.** Biomedicines 2021; 9 Alberdi-Iglesias A, Martín-Rodríguez F, Ortega Rabbione G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440240>
12. **Full-Length Recombinant hSP-D Binds and Inhibits SARS-CoV-2.** Biomolecules 2021; 11 Arroyo R, Grant SN, Colombo M *et al.*

- <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439781>
13. **Cytokine Storms in the Course of COVID-19 and Haemophagocytic Lymphohistiocytosis in Pregnant and Postpartum Women.** Biomolecules 2021; 11:Obuchowska A, Standylo A, Obuchowska K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34439868>
 14. **Pre-existing health conditions and severe COVID-19 outcomes: an umbrella review approach and meta-analysis of global evidence.** BMC Med 2021; 19:212Treskova-Schwarzbach M, Haas L, Reda S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446016>
 15. **A clinical risk score to predict in-hospital mortality in critically ill patients with COVID-19: a retrospective cohort study.** BMJ Open 2021; 11:e048770Alkaabi S, Alnuaimi A, Alharbi M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446489>
 16. **What symptoms best predict severe distress in an online survey of UK health and social care staff facing COVID-19: development of the two-item Tipping Point Index.** BMJ Open 2021; 11:e047345Brewin CR, Bloomfield MAP, Billings J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452960>
 17. **The Relationship between Dietary Inflammatory Index (DII) and Disease Severity and Inflammatory Status: A Case-Control Study of COVID-19 Patients.** Br. J. Nutr. 2021;1-24Moludi J, Alizadeh M, Jafari Vayghan H *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420546>
 18. **A Fragile Balance: Does Neutrophil Extracellular Trap Formation Drive Pulmonary Disease Progression?** Cells 2021; 10Block H, Zarbock A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34440701>
 19. **Leveraging weather data for forecasting cases-to-mortality rates due to COVID-19.** Chaos Solitons Fractals 2021; 152:111340Illoanusi O, Ross A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421230>
 20. **Leveraging Weather Data for Forecasting Cases-to-Mortality Rates Due to COVID-19.** Chaos Solitons Fractals 2021; 152:111340Illoanusi ON, Ross A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421230>
 21. **Daily monitoring of viral load measured as SARS-CoV-2 antigen and RNA in blood, IL-6, CRP and complement C3d predicts outcome in patients hospitalized with COVID-19.** Clin Chem Lab Med 2021; Brasen CL, Christensen H, Olsen DA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455731>
 22. **The clinical association between Periodontitis and COVID-19.** Clin Oral Investig 2021;1-14Gupta S, Mohindra R, Singla M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34448073>
 23. **Antibodies against type I interferon: detection and association with severe clinical outcome in COVID-19 patients.** Clin Transl Immunology 2021; 10:e1327Goncalves D, Mezidi M, Bastard P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429968>
 24. **The Impact of SARS-CoV-2 Viral Load on the Mortality of Hospitalized Patients: A Retrospective Analysis.** Cureus 2021; 13:e16540Machado A, Salvador P, Oliveira P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430148>
 25. **The Relation of ABO Blood Group to the Severity of Coronavirus Disease: A Cross-Sectional Study From a Tertiary Care Hospital in Karachi.** Cureus 2021; 13:e16598Rehman FU, Omair SF, Memon F *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430180>
 26. **Forecasting COVID-19 Severity by Intelligent Optical Fingerprinting of Blood Samples.** Diagnostics (Basel) 2021; 11Faria SP, Carpinteiro C, Pinto V *et al.*

- <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441244>
27. **TREC/KREC Levels in Young COVID-19 Patients.** Diagnostics (Basel) 2021; 11Khadzhieva MB, Kalinina EV, Larin SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441420>
 28. **Predictive Model of Severity in SARS CoV-2 Patients at Hospital Admission Using Blood-Related Parameters.** Ejifcc 2021; 32:255-264Gvmez LC, Curto SV, Sebastian MBP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421494>
 29. **Positive association between outdoor air pollution and the incidence and severity of COVID-19. A review of the recent scientific evidences.** Environ. Res. 2021; 203:111930Marquv@s M, Domingo JL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425111>
 30. **Analyzing the severity of coronavirus infections in relation to air pollution: evidence-based study from Saudi Arabia.** Environ. Sci. Pollut. Res. Int. 2021:1-11Ghanim AAJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448138>
 31. **Risk prediction in patients with COVID-19 based on haemodynamic assessment of left and right ventricular function.** Eur. Heart J. Cardiovasc. Imaging 2021; Taieb P, Szekely Y, Lupu L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453517>
 32. **Assessment of the risk of infection among Romanian physicians at the outbreak of the SARS CoV-2 pandemic.** Eur J Gen Pract 2021; 27:235-240Herdea V, Duduciuc A, Ghionaru R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431427>
 33. **The Interferon-Induced Transmembrane Protein 3 -rs12252 Allele May Predict COVID-19 Severity Among Ethnic Minorities.** Front Genet 2021; 12:692254Mohammed FS, Farooqi YN, Mohammed S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434219>
 34. **The Immunological Factors Predisposing to Severe Covid-19 Are Already Present in Healthy Elderly and Men.** Front. Immunol. 2021; 12:720090Kilic G, Bulut O, Jaeger M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434199>
 35. **Risk Factors for Development and Severity of COVID-19 in COPD Patients.** Front Med (Lausanne) 2021; 8:714570Bonato M, Semenzato U, Tinè M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434947>
 36. **Age-Adjusted Associations Between Comorbidity and Outcomes of COVID-19: A Review of the Evidence From the Early Stages of the Pandemic.** Front Public Health 2021; 9:584182Mason KE, Maudsley G, McHale P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422736>
 37. **Preexisting Mental Disorders Increase the Risk of COVID-19 Infection and Associated Mortality.** Front Public Health 2021; 9:684112Wang Y, Yang Y, Ren L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434913>
 38. **Methylation of Host Genes Associated with Coronavirus Infection from Birth to 26 Years.** Genes (Basel) 2021; 12Rathod R, Rathod A, Rahimabad PK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440372>
 39. **A Descriptive Analysis of the Scientific Literature on Meteorological and Air Quality Factors and COVID-19.** Geohealth 2021; 5:e2020GH000367Quintana AV, Clemons M, Hoevenmeyer K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430778>
 40. **Oral Mucosa Could Be an Infectious Target of SARS-CoV-2.** Healthcare (Basel) 2021; 9Okui T, Matsuda Y, Karino M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442205>

41. **Deceleration capacity is associated with acute respiratory distress syndrome in COVID-19.** Heart Lung 2021; 50:914-918 Mizera L, Rath D, Schoellmann A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428736>
42. **Ferritin level: A predictor of severity and mortality in hospitalized COVID-19 patients.** Immun Inflamm Dis 2021; Alroomi M, Rajan R, Omar AA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438471>
43. **Genome interaction of the virus and the host genes and non-coding RNAs in SARS-CoV-2 infection.** Immunobiology 2021; 226:152130 Serpeloni JM, Lima Neto QA, Lucio LC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425415>
44. **Unusually High Risks of COVID-19 Mortality with Age-Related Comorbidities: An Adjusted Meta-Analysis Method to Improve the Risk Assessment of Mortality Using the Comorbid Mortality Data.** Infect Dis Rep 2021; 13:700-711 Antos A, Kwong ML, Balmorez T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449622>
45. **Risk Groups for SARS-CoV-2 Infection among Healthcare Workers: Community Versus Hospital Transmission.** Infect Dis Rep 2021; 13:724-729 Pınarlık F, Genç Z, Kapmaz M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449648>
46. **Population-based assessment of risks for severe COVID-19 disease outcomes.** Influenza Other Respir Viruses 2021; Zerbo O, Lewis N, Fireman B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432371>
47. **A Clinical Decision Web to Predict ICU Admission or Death for Patients Hospitalised with COVID-19 Using Machine Learning Algorithms.** Int J Environ Res Public Health 2021; 18:Aznar-Gimeno R, Esteban LM, Labata-Lezaun G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444425>
48. **Estimates of COVID-19 Risk Factors among Social Strata and Predictors for a Vulnerability to the Infection.** Int J Environ Res Public Health 2021; 18:Mouliou DS, Kotsiou OS, Gourgoulisanis KI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444450>
49. **COVID-19-Associated Mortality in US Veterans with and without SARS-CoV-2 Infection.** Int J Environ Res Public Health 2021; 18:Suzuki A, Efird JT, Redding TSt *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444232>
50. **Clinical Characteristics and Outcomes of Hypertensive Patients Infected with COVID-19: A Retrospective Study.** Int. J. Gen. Med. 2021; 14:4619-4628 Chen L, Chen J, Wu Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429644>
51. **Development of a Web GIS for small-scale detection and analysis of COVID-19 (SARS-CoV-2) cases based on volunteered geographic information for the city of Cologne, Germany, in July/August 2020.** Int J Health Geogr 2021; 20:40 Schmidt F, Dröge-Rothaar A, Rienow A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454536>
52. **Risk Factors Associated with the Mucormycosis Epidemic During the COVID-19 Pandemic.** Int J Infect Dis 2021; Bhanuprasad K, Manesh A, Devasagayam E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450284>
53. **Serum trace elements levels and clinical outcomes among Iranian COVID-19 patients.** Int J Infect Dis 2021; Pour OB, Yahyavi Y, Karimi A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454118>
54. **Anti-SARS-CoV-2 Strategies and the Potential Role of miRNA in the Assessment of COVID-19 Morbidity, Recurrence, and Therapy.** Int J Mol Sci 2021; 22:Narožna M, Rubiś B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445368>

55. **Severe COVID-19 Patients Show an Increase in Soluble TNFR1 and ADAM17, with a Relationship to Mortality.** Int J Mol Sci 2021; 22Palacios Y, Ruiz A, Ramón-Luing LA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445140>
56. **Neutrophil Extracellular Traps (NETs) in Severe SARS-CoV-2 Lung Disease.** Int J Mol Sci 2021; 22Szturmowicz M, Demkow U. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445556>
57. **US Nursing Home Quality Ratings Associated with COVID-19 Cases and Deaths Introduction.** J. Am. Med. Dir. Assoc. 2021; Khairat S, Zalla LC, Adler-Milstein J, Kistler CE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454922>
58. **Group IIA secreted phospholipase A2 is associated with the pathobiology leading to COVID-19 mortality.** J. Clin. Invest. 2021; Snider JM, You JK, Wang X *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428181>
59. **Predictors of Hypoxemia and Related Adverse Outcomes in Patients Hospitalized with COVID-19: A Double-Center Retrospective Study.** J Clin Med 2021; 10Asleh R, Asher E, Yagel O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441877>
60. **Usefulness of Easy-to-Use Risk Scoring Systems Rated in the Emergency Department to Predict Major Adverse Outcomes in Hospitalized COVID-19 Patients.** J Clin Med 2021; 10González-Flores J, García-Ávila C, Springall R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441957>
61. **The Effects of Previous Thyroid Disease on the Susceptibility to, Morbidity of, and Mortality Due to COVID-19: A Nationwide Cohort Study in South Korea.** J Clin Med 2021; 10Kim SY, Yoo DM, Min CY, Choi HG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441818>
62. **Severe Lymphopenia as a Predictor of COVID-19 Mortality in Immunosuppressed Patients.** J Clin Med 2021; 10Martínez-Urbistondo M, Gutiérrez-Rojas Á, Andrés A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441891>
63. **Early Measurement of Blood sST2 Is a Good Predictor of Death and Poor Outcomes in Patients Admitted for COVID-19 Infection.** J Clin Med 2021; 10Sánchez-Marteles M, Rubio-Gracia J, Peña-Fresneda N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441830>
64. **Susceptibility of β -Thalassemia Heterozygotes to COVID-19.** J Clin Med 2021; 10Sotiriou S, Samara AA, Vamvakopoulou D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441941>
65. **Patients Admitted for Variant Alpha COVID-19 Have Poorer Outcomes than Those Infected with the Old Strain.** J Clin Med 2021; 10Vassallo M, Manni S, Klotz C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441844>
66. **"Risk of SARS-CoV-2 Transmission following exposure during Dental Treatment -A National Cohort Study".** J. Dent. 2021;103791Natapov DL, Schwartz DD, Herman DHD *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455018>
67. **Factors associated with SARS-CoV-2 infection amongst healthcare workers in a COVID-19 designated hospital.** J Infect Public Health 2021; 14:1226-1232Al Youha S, Alowaish O, Ibrahim IK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450510>
68. **Pan-drug resistant *Providencia rettgeri* contributing to a fatal case of COVID-19.** J. Med. Microbiol. 2021; 70Mc Gann P, Geringer MR, Hall LR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448689>

69. **Effect of mutation and vaccination on spread, severity, and mortality of COVID-19 disease.** J Med Virol 2021; Zawbaa HM, Osama H, El-Gendy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427922>
70. **Role of Lung Ultrasound in Predicting Clinical Severity and Fatality in COVID-19 Pneumonia.** J Pers Med 2021; 11Skopljanac I, Ivelja MP, Barcot O *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442401>
71. **Vitamin D Status and Severe COVID-19 Disease Outcomes in Hospitalized Patients.** J. Prim. Care Community Health 2021; 12:21501327211041206Pecina JL, Merry SP, Park JG, Thacher TD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452582>
72. **A dynamic mucin mRNA signature associates with COVID-19 disease presentation and severity.** JCI Insight 2021; Smet A, Breugelmans T, Michiels J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448730>
73. **Association between accelerometer-assessed physical activity and severity of COVID-19 in UK Biobank.** Mayo Clin Proc Innov Qual Outcomes 2021; Rowlands AV, Dempsey PC, Gillies C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430796>
74. **Prolactin and susceptibility to COVID-19 infection.** Med. Hypotheses 2021; 155:110662Mirzaei F, Tavilani A, Asefy Z, Abbasi E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425453>
75. **The Angiotensin Converting Enzyme Deletion/Deletion Genotype Is a Risk Factor for Severe COVID-19: Implication and Utility for Patients Admitted to Emergency Department.** Medicina (Kaunas) 2021; 57Annunziata A, Coppola A, Di Spirito V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441050>
76. **The Impact of Angiotensin-Converting Enzyme 2 (ACE2) Expression Levels in Patients with Comorbidities on COVID-19 Severity: A Comprehensive Review.** Microorganisms 2021; 9Rodrigues R, Costa de Oliveira S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442770>
77. **Mortality in Hemodialysis Patients with COVID-19, the Effect of Paricalcitol or Calcimimetics.** Nutrients 2021; 13Arenas Jimenez MD, González-Parra E, Riera M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444716>
78. **Viral Load Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2 in Hospitalized Individuals With Coronavirus Disease 2019.** Open Forum Infect Dis 2021; 8:ofab153Regan J, Flynn JP, Rosenthal A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430669>
79. **Is chest X-ray severity scoring for COVID-19 pneumonia reliable?** Pol J Radiol 2021; 86:e432-e439Abo-Hedibah SA, Tharwat N, Elmokadem AH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429790>
80. **Genetic predisposition to COVID-19 may increase the risk of hypertension disorders in pregnancy: A two-sample Mendelian randomization study.** Pregnancy Hypertens. 2021; 26:17-23Tan JS, Liu NN, Guo TT *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428710>
81. **Predictive value of HbA1c for in-hospital adverse prognosis in COVID-19: A systematic review and meta-analysis.** Prim. Care Diabetes 2021; Zhu Z, Mao Y, Chen G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420899>
82. **Profound Treg perturbations correlate with COVID-19 severity.** Proc Natl Acad Sci U S A 2021; 118Galván-Peña S, Leon J, Chowdhary K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433692>

83. **Qatar Prediction Rule Using ED Indicators of COVID-19 at Triage.** Qatar Med J 2021; 2021:18Pathan SA, Thomas CE, Bhutta ZA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422577>
84. **Biomarkers of Coagulation and Inflammation in COVID-19-Associated Ischemic Stroke.** Stroke 2021:Strokeaha121035045Esenwa C, Cheng NT, Luna J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428931>
85. **Susceptibility of lung cancer patients to COVID-19: A review of the pandemic data from multiple nationalities.** Thorac Cancer 2021; Lemos AEG, Silva GR, Gimba ERP, Matos ADR. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435733>
86. **The expression of hACE2 receptor protein and its involvement in SARS-CoV-2 entry, pathogenesis, and its application as potential therapeutic target.** Tumour Biol. 2021; 43:177-196Al-Zaidan L, Mestiri S, Raza A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420993>
87. **Risk Factors Associated with the Clinical Outcomes of COVID-19 and Its Variants in the Context of Cytokine Storm and Therapeutics/Vaccine Development Challenges.** Vaccines (Basel) 2021; 9Hanna J, Tipparaju P, Mulherkar T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452063>
88. **Blood glucose regulation in context of infection.** Vitam. Horm. 2021; 117:253-318Wensveen FM, ≈†estan M, Turk Wensveen T, Polifá B.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420584>
89. **Association of asthma comorbidity with poor prognosis of coronavirus disease 2019.** World Allergy Organ J 2021; 14:100576Kim SH, Ji E, Won SH *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422204>
90. **New Scoring System for Predicting Mortality in Patients with COVID-19.** Yonsei Med. J. 2021; 62:806-813Bae S, Kim Y, Hwang S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427066>

Safety (45 articles)

1. **Exacerbation of Hailey-Hailey Disease Following SARS-CoV-2 Vaccination.** Acta Derm. Venereol. 2021; Armoni-Weiss G, Sheffer-Levi S, Horev-Yakir L *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34436620>
2. **Initial experience of the safety and tolerability of the BNT162b2 (Pfizer-Bio-N-Tech) vaccine in extremely vulnerable children aged 12-15 years.** Arch. Dis. Child. 2021; King H, Deshpande S, Woodbridge T *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446440>
3. **Side Effects of mRNA-Based and Viral Vector-Based COVID-19 Vaccines among German Healthcare Workers.** Biology (Basel) 2021; 10Klugar M, Riad A, Mekhemar M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439984>
4. **Detection of SARS-CoV-2-Specific IgA in the Human Milk of COVID-19 Vaccinated Lactating Health Care Workers.** Breastfeed. Med. 2021; Valcarce V, Stafford LS, Neu J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427487>
5. **Temporal association between the COVID-19 Ad26.COV2.S vaccine and acute myocarditis: A case report and literature review.** Cardiovasc. Revasc. Med. 2021; Sulemankhil I, Abdelrahman M, Negi SI.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34420869>
6. **Favipiravir-induced nephrotoxicity in a patient with COVID-19: A case report.** Clin Case Rep 2021; 9:e04539Abdelbary AA, Alharafsheh AE, Ahmed A, Nashwan AJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429982>

7. **Rituximab-induced acute lympholysis and pancytopenia after COVID-19 vaccination.** Clin Case Rep 2021; 9:e04517Leung VS, Lin Y.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34429981>
8. **Insights from a murine model of COVID-19 mRNA vaccination-induced myopericarditis: Could accidental intravenous vaccine injection induce myopericarditis?** Clin Infect Dis 2021; Knowlton KU.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453510>
9. **Thrombotic Thrombocytopenic Purpura Presentation in an Elderly Gentleman Following COVID Vaccine Circumstances.** Cureus 2021; 13:e16619Chamarti K, Dar K, Reddy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447649>
10. **Unusual Presentation of Acute Perimyocarditis Following SARS-COV-2 mRNA-1237 Moderna Vaccination.** Cureus 2021; 13:e16590Khogali F, Abdelrahman R.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447639>
11. **Drug-Induced Liver Injury After COVID-19 Vaccine.** Cureus 2021; 13:e16491Mann R, Sekhon S, Sekhon S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430106>
12. **Cerebral venous sinus thrombosis after COVID-19 vaccination : Neurological and radiological management.** Der Radiologe 2021; Walter U, Volmer E, Wittstock M *et al.*
13. **Subacute cutaneous lupus erythematosus flare triggered by COVID-19 vaccine.** Dermatol Ther 2021:e15114Joseph AK, Chong BF.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34455671>
14. **COVID-19 post-vaccination lymphadenopathy: Report of cytological findings from fine needle aspiration biopsy.** Diagn. Cytopathol. 2021; Tan NJH, Tay KXJ, Wong SBJ, Nga ME. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432391>
15. **Long-term humoral immunogenicity, safety and protective efficacy of inactivated vaccine against COVID-19 (CoviVac) in preclinical studies.** Emerg Microbes Infect 2021:1-60Kozlovskaya LI, Piniaeva AN, Ignatyev GM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427172>
16. **Delayed skin reaction after mRNA-1273 vaccine against SARS-CoV-2: a rare clinical reaction.** Eur. J. Med. Res. 2021; 26:98Hoff NP, Freise NF, Schmidt AG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433495>
17. **Quantifying arrhythmic long QT effects of hydroxychloroquine and azithromycin with whole-heart optical mapping and simulations.** Heart Rhythm O2 2021; 2:394-404Uzelac I, Kaboudian A, Iravanian S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430945>
18. **Pityriasis rosea after administration of Pfizer-BioNTech COVID-19 vaccine.** Hum Vaccin Immunother 2021:1-2Cohen OG, Clark AK, Milbar H, Tarlow M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435935>
19. **A look into the relationship between outdated Covid-19 treatment protocols and the overwhelming rise of Mucormycosis in Covid-19 patients in India.** Infect Control Hosp Epidemiol 2021:1-5Jamal SA, Rayapati A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446122>
20. **Efficacy and Safety of Favipiravir in Moderate COVID-19 Pneumonia Patients without Oxygen Therapy: A Randomized, Phase III Clinical Trial.** Infect Dis Ther 2021:1-21Shinkai M, Tsushima K, Tanaka S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453234>
21. **Herpes Zoster after COVID-vaccination.** Int J Infect Dis 2021; van Dam CS, Lede I, Schaar J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428545>

22. **Dermatology Patients on Biologics and Certain Other Systemic Therapies Should Receive a 'Booster' mRNA COVID-19 Vaccine Dose: A Critical Appraisal of Recent FDA and ACIP Recommendations.** J Am Acad Dermatol 2021; Waldman RA, Grant-Kels JM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437985>
23. **We Need to Inform COVID-19 Vaccinating Clinics Concerning Polyethylene Glycol Allergy.** J. Am. Soc. Echocardiogr. 2021; Gelfman DM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438025>
24. **New-Onset Autoimmune Hepatitis following mRNA Covid-19 Vaccination in a 36-year-old woman with Primary Sclerosing Cholangitis - should we be more vigilant?** J Hepatol 2021; Zhou T, Fronhoffs F, Dold L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450237>
25. **COVID-19-associated atypical hemolytic uremic syndrome and use of Eculizumab therapy.** J Nephrol 2021:1-5 Gill J, Hebert CA, Colbert GB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427905>
26. **A Case Series of Cutaneous COVID-19 Vaccine Reactions at Loma Linda University Department of Dermatology.** JAAD Case Rep 2021; Holmes GA, Desai M, Limone B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423106>
27. **ANCA-associated Glomerulonephritis Following the Pfizer-BioNTech COVID-19 Vaccine.** Kidney Int Rep 2021; Dube GK, Benvenuto LJ, Batal I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423176>
28. **Cerebral venous thrombosis after vaccination against COVID-19 in the UK: a multicentre cohort study.** The Lancet 2021; Perry RJ, Tamborska A, Singh B *et al.*
29. **Effects of Steroids and Tocilizumab on the Immune Response Profile of Patients with COVID-19-Associated ARDS Requiring or Not Veno-Venous Extracorporeal Membrane Oxygenation.** Membranes (Basel) 2021; 11 Fanelli V, Montrucchio G, Sales G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436366>
30. **An Update on COVID-19 Vaccine Induced Thrombotic Thrombocytopenia Syndrome and Some Management Recommendations.** Molecules 2021; 26 Islam A, Bashir MS, Joyce K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443589>
31. **A Novel Case of Bifacial Diplegia Variant of Guillain-Barré Syndrome Following Janssen COVID-19 Vaccination.** Neurol. Int. 2021; 13:404-409 Prasad A, Hurlburt G, Podury S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449715>
32. **COVID-19 Vaccines in Children with Cow's Milk and Food Allergies.** Nutrients 2021; 13 Liotti L, Bianchi A, Bottau P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444795>
33. **Renal Thrombotic Microangiopathy in Concurrent COVID-19 Vaccination and Infection.** Pathogens 2021; 10 De Fabritiis M, Angelini ML, Fabbriozzi B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451509>
34. **Janus Kinase Inhibitors and Coronavirus Disease (COVID)-19: Rationale, Clinical Evidence and Safety Issues.** Pharmaceuticals (Basel) 2021; 14 Gatti M, Turrini E, Raschi E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451835>
35. **Pharmacological Interactions of Nintedanib and Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis in Times of COVID-19 Pandemic.** Pharmaceuticals (Basel) 2021; 14 Serra López-Matencio JM, Gómez M, Vicente-Rabaneda EF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451916>
36. **Prevalence and Significance of Hypermetabolic Lymph Nodes Detected by 2-[(18)F]FDG PET/CT after COVID-19 Vaccination: A Systematic Review and a**

- Meta-Analysis.** Pharmaceuticals (Basel) 2021; 14Treglia G, Cuzzocrea M, Giovannella L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451859>
37. **Pharmacists' Perceptions and Drivers of Immunization Practices for COVID-19 Vaccines: Results of a Nationwide Survey Prior to COVID-19 Vaccine Emergency Use Authorization.** Pharmacy (Basel) 2021; 9Jacob SS, Bridgeman MB, Kim H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449708>
 38. **Multisystem inflammatory syndrome after SARS-CoV-2 vaccination (MIS-V), to interpret with caution.** Postgrad. Med. J. 2021; Iyengar KP, Nune A, Ish P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446448>
 39. **The roles of platelets in COVID-19-associated coagulopathy and vaccine-induced immune thrombotic thrombocytopenia.** Trends Cardiovasc. Med. 2021; Iba T, Levy JH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455073>
 40. **Nervous and Muscular Adverse Events after COVID-19 Vaccination: A Systematic Review and Meta-Analysis of Clinical Trials.** Vaccines (Basel) 2021; 9Chen J, Cai Y, Chen Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452064>
 41. **Propylthiouracil-Induced Antineutrophil Cytoplasmic Antibody-Associated Vasculitis after COVID-19 Vaccination.** Vaccines (Basel) 2021; 9Okuda S, Hirooka Y, Sugiyama M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451967>
 42. **Probiotics as Adjuvants in Vaccine Strategy: Is There More Room for Improvement?** Vaccines (Basel) 2021; 9Peroni DG, Morelli L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451936>
 43. **A Case of Acute Pulmonary Embolus after mRNA SARS-CoV-2 Immunization.** Vaccines (Basel) 2021; 9Wiest NE, Johns GS, Edwards E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452028>
 44. **Emergence of E484K Mutation Following Bamlanivimab Monotherapy among High-Risk Patients Infected with the Alpha Variant of SARS-CoV-2.** Viruses 2021; 13Peiffer-Smadja N, Bridier-Nahmias A, Ferré VM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452507>
 45. **Moderna COVID-19 vaccine induced skin rash.** Vis J Emerg Med 2021; 25:101108Khalid M, Lipka O, Becker C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423142>

Treatment options (104 articles)

1. **The case of complement inhibitors.** Adv Biol Regul 2021:100822Noris M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454870>
2. **Monoclonal antibody treatment of symptomatic COVID-19 in pregnancy: Initial report.** Am J Obstet Gynecol 2021; Hirshberg JS, Cooke E, Oakes MC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453934>
3. **Treating Critically Ill Patients Experiencing SARS-CoV-2 Severe Infection with Ig-M and Ig-A Enriched Ig-G Infusion.** Antibiotics (Basel) 2021; 10Corona A, Richini G, Simoncini S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438980>
4. **Effectiveness of Natural Antioxidants against SARS-CoV-2? Insights from the In-Silico World.** Antibiotics (Basel) 2021; 10Rehman MFU, Akhter S, Batool AI *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439061>
5. **Phytochemicals from *Leucas zeylanica* Targeting Main Protease of SARS-CoV-2: Chemical Profiles, Molecular Docking, and Molecular Dynamics Simulations.** Biology (Basel) 2021; 10Dutta M, Tareq AM, Rakib A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440024>

6. **Vivo-Morpholino-Based Antiviral for SARS-CoV-2: Implications for Novel Therapies in the Treatment of Acute COVID-19 Disease.** Biomedicines 2021; 9:Hildreth JEK, Moulton JD, Alcendor DJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440222>
7. **Anticoronavirus and Immunomodulatory Phenolic Compounds: Opportunities and Pharmacotherapeutic Perspectives.** Biomolecules 2021; 11:Dejani NN, Elshabrawy HA, Bezerra Filho C, de Sousa DP. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439920>
8. **Screening out anti-inflammatory or anti-viral targets in Xuanfei Baidu Tang through a new technique of reverse finding target.** Bioorg. Chem. 2021; 116:105274Wang Z, Zhang J, Zhan J, Gao H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455301>
9. **Potency and pharmacokinetics of GS-441524 derivatives against SARS-CoV-2.** Bioorg. Med. Chem. 2021; 46:116364Wei D, Hu T, Zhang Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450570>
10. **Comparative study of the interaction of ivermectin with proteins of interest associated with SARS-CoV-2: A computational and biophysical approach.** Biophys. Chem. 2021; 278:106677González-Paz L, Hurtado-León ML, Lossada C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428682>
11. **Update: Drug treatment options for coronavirus disease 2019 (COVID-19).** Biosci Trends 2021; Shao Y, Chen J, Lu H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433754>
12. **High-titre convalescent plasma therapy for an immunocompromised patient with systemic lupus erythematosus with protracted SARS-CoV-2 infection.** BMJ Case Rep. 2021; 14:Moutinho-Pereira S, Calisto R, Sabio F, Guerreiro L. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433539>
13. **Recent omics-based computational methods for COVID-19 drug discovery and repurposing.** Brief. Bioinform. 2021; Tayara H, Abdelbaky I, To Chong K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423353>
14. **An update on novel approaches for diagnosis and treatment of SARS-CoV-2 infection.** Cell Biosci 2021; 11:164Safarchi A, Fatima S, Ayati Z, Vafaei F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420513>
15. **Drug Repurposing for the SARS-CoV-2 Papain-Like Protease.** ChemMedChem 2021; Liu W, Cho CC, Li SG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423563>
16. **Favipiravir-induced nephrotoxicity in a patient with COVID-19: A case report.** Clin Case Rep 2021; 9:e04539Abdelbary AA, Alharafsheh AE, Ahmed A, Nashwan AJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429982>
17. **Clinical efficacy and safety of combination therapy of tocilizumab and steroid pulse therapy for critical COVID-19 in HD patients.** Clin. Exp. Nephrol. 2021:1-11Toda M, Fujii K, Yoshifuji A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436742>
18. **Brief report: Tempol, a novel antioxidant, inhibits both activated T cell and antigen presenting cell derived cytokines in-vitro from COVID-19 patients.** Clin Immunol 2021:108828Mathi K, Rosenberg-Hasson Y, Maecker H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425240>
19. **Compassionate use of REGN-COV2 in the treatment of COVID-19 in a patient with impaired humoral immunity.** Clin Infect Pract 2021; 12:100089Nguyen H,

- Salkeld J, Agarwal S, Goodman A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426799>
20. **Tocilizumab for coronavirus disease 2019 in pregnancy and lactation: a narrative review.** *Clin Microbiol Infect* 2021; Jorgensen SCJ, Lapinsky SE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438068>
 21. **First in Human Study of Bamlanivimab in a Randomized Trial of Hospitalized Patients with COVID-19.** *Clin Pharmacol Ther* 2021; Chen P, Datta G, Li YG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455583>
 22. **Janus kinase inhibitors and major COVID-19 outcomes: time to forget the two faces of Janus! A meta-analysis of randomized controlled trials.** *Clin Rheumatol* 2021;1-4Patoulas D, Doumas M, Papadopoulos C, Karagiannis A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431004>
 23. **Computer-aided prediction of inhibitors against STAT3 for managing COVID-19 associated cytokine storm.** *Comput. Biol. Med.* 2021; 137:104780Dhall A, Patiyl S, Sharma N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450382>
 24. **Co-crystallization and structure determination: An effective direction for anti-SARS-CoV-2 drug discovery.** *Comput Struct Biotechnol J* 2021; 19:4684-4701Wang Z, Yang L, Zhao XE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426762>
 25. **Thrombotic Thrombocytopenic Purpura Presentation in an Elderly Gentleman Following COVID Vaccine Circumstances.** *Cureus* 2021; 13:e16619Chamarti K, Dar K, Reddy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447649>
 26. **Efficacy of Bamlanivimab in Reducing Hospitalization and Mortality Rates in COVID-19 Patients in a Rural Community.** *Cureus* 2021; 13:e16477Iqbal L, Terlau TJ, Hernandez A, Woods K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430093>
 27. **Real-Life Benefit of Omalizumab in Improving Control of Bronchial Asthma During COVID-19 Pandemic.** *Cureus* 2021; 13:e17268Leru PM, Anton VF. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422507>
 28. **Cordycepin as a Promising Inhibitor of SARS-CoV-2 RNA dependent RNA polymerase (RdRp).** *Curr Med Chem* 2021; Bibi S, Hasan MM, Wang YB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420502>
 29. **COVID-19 treatment: Treatment from the beginning.** *Deutsches Arzteblatt International* 2021; 118:A-586Swalve-Bordeaux S.
 30. **Antibody Response to SARS-CoV-2 Membrane Protein in Patients of the Acute and Convalescent Phase of COVID-19.** *Front. Immunol.* 2021; 12:679841Jvðrrivüen P, Schv^otz P, Weiland M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421894>
 31. **Corrigendum: Synthesis and Cytotoxic Activity of Novel Indole Derivatives and Their in silico Screening on Spike Glycoprotein of SARS-CoV-2.** *Front Mol Biosci* 2021; 8:716238Gobinath P, Packialakshmi P, Vijayakumar K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422908>
 32. **The Hyperlipidaemic Drug Fenofibrate Significantly Reduces Infection by SARS-CoV-2 in Cell Culture Models.** *Front. Pharmacol.* 2021; 12:660490Davies SP, Mycroft-West CJ, Pagani I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421587>
 33. **NETosis and the Immune System in COVID-19: Mechanisms and Potential Treatments.** *Front. Pharmacol.* 2021; 12:708302Gillot C, Favresse J, Mullier F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421600>

34. **Case Report: Can Inhaled Adenosine Attenuate COVID-19?** Front. Pharmacol. 2021; 12:676577 Spiess BD, Sitkovsky M, Correale P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34434105>
35. **Efficacy and Safety of Traditional Chinese Medicine in Coronavirus Disease 2019 (COVID-19): A Systematic Review and Meta-Analysis.** Front. Pharmacol. 2021; 12:609213 Wang H, Xu B, Zhang Y *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421581>
36. **Harnessing immunological targets for COVID-19 immunotherapy.** Future Virol. 2021; Mehata AK, Viswanadh MK, Priya V *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447458>
37. **Use of a Unique Mobile Medical Asset in COVID Monoclonal Antibody Treatment.** Healthcare (Basel) 2021; 9 Morchel H, Clark D, Buenvenida L, Ogedegbe C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442127>
38. **Quantifying arrhythmic long QT effects of hydroxychloroquine and azithromycin with whole-heart optical mapping and simulations.** Heart Rhythm O2 2021; 2:394-404 Uzelac I, Kaboudian A, Iravanian S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430945>
39. **Drugs repurposing against SARS-CoV2 and the new variant B.1.1.7 (alpha strain) targeting the spike protein: molecular docking and simulation studies.** Heliyon 2021; 7:e07803 Pande M, Kundu D, Srivastava R.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34423145>
40. **Immune checkpoint inhibitors use and effects on prognosis of COVID-19 infection: a systematic review and meta-analysis.** Immunotherapy 2021; Qian W, Ye Y, Zuo L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431319>
41. **Current Use of Ivermectin in Dermatology, Tropical Medicine, and COVID-19: An Update on Pharmacology, Uses, Proven and Varied Proposed Mechanistic Action.** Indian Dermatol Online J 2021; 12:500-514 Mathachan SR, Sardana K, Khurana A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430453>
42. **A look into the relationship between outdated Covid-19 treatment protocols and the overwhelming rise of Mucormycosis in Covid-19 patients in India.** Infect Control Hosp Epidemiol 2021:1-5 Jamal SA, Rayapati A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446122>
43. **Efficacy of Bamlanivimab/Etesevimab and Casirivimab/Imdevimab in Preventing Progression to Severe COVID-19 and Role of Variants of Concern.** Infect Dis Ther 2021:1-10 Falcone M, Tiseo G, Valoriani B *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435337>
44. **Efficacy and Safety of Favipiravir in Moderate COVID-19 Pneumonia Patients without Oxygen Therapy: A Randomized, Phase III Clinical Trial.** Infect Dis Ther 2021:1-21 Shinkai M, Tsushima K, Tanaka S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34453234>
45. **Combined Therapy of Ciclosporin Plus Favipiravir in the Management of Patients with Severe COVID-19, not Responding to Dexamethasone: A non-Controlled Prospective Trial.** Int Immunopharmacol 2021; 99:108043 Barati S, MohammadReza Hashemian S, Tabarsi P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34426105>
46. **Evaluation of adalimumab effects in managing severe cases of COVID-19: A randomized controlled trial.** Int Immunopharmacol 2021; 99:107961 Fakharian A, Barati S, Mirenayat M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426106>

47. **Hydroxychloroquine plus azithromycin early treatment of mild COVID-19 in outpatient setting: a randomized, double-blinded, placebo-controlled clinical trial evaluating viral clearance.** *Int J Antimicrob Agents* 2021;106428Rodrigues C, Freitas-Santos RS, Levi JE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454044>
48. **Can treatment with teicoplanin improve the prognosis of COVID-19 patients?** *Int J Clin Pract* 2021:e14752Yasar Z, Yemisen M, Yasar H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431178>
49. **Possible Use of Phytochemicals for Recovery from COVID-19-Induced Anosmia and Ageusia.** *Int J Mol Sci* 2021; 22Koyama S, Kondo K, Ueha R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445619>
50. **Anti-SARS-CoV-2 Strategies and the Potential Role of miRNA in the Assessment of COVID-19 Morbidity, Recurrence, and Therapy.** *Int J Mol Sci* 2021; 22Narožna M, Rubiś B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445368>
51. **Melatonin as a Potential Adjuvant Treatment for COVID-19 beyond Sleep Disorders.** *Int J Mol Sci* 2021; 22Wichniak A, Kania A, Siemiński M, Cubała WJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445329>
52. **Tocilizumab in SARS-COVID19 following postoperative laparoscopic transhiatal esophagectomy for the adenocarcinoma of esophagogastric tumor: A case report.** *Int. J. Surg. Case Rep.* 2021; 86:106343Takeda FR, Muniz RR, Fonseca SMR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454217>
53. **Intranasal Corticosteroids are Associated with Better Outcomes in Coronavirus Disease 2019 (COVID-19).** *J Allergy Clin Immunol Pract* 2021; Strauss R, Jawhari N, Attaway AH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438103>
54. **Inhibition of multiple SARS-CoV-2 proteins by an antiviral biomolecule, seselin from Aegle marmelos deciphered using molecular docking analysis.** *J Biomol Struct Dyn* 2021;1-12Nivetha R, Bhuvaragavan S, Muthu Kumar T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431451>
55. **In silico study on spice-derived antiviral phytochemicals against SARS-CoV-2 TMPRSS2 target.** *J Biomol Struct Dyn* 2021;1-11Yadav PK, Jaiswal A, Singh RK. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427179>
56. **Rationale for Polyclonal Intravenous Immunoglobulin Adjunctive Therapy in COVID-19 Patients: Report of a Structured Multidisciplinary Consensus.** *J Clin Med* 2021; 10Coloretti I, Berlot G, Busani S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441796>
57. **Metformin Use Is Associated with Decreased Mortality in COVID-19 Patients with Diabetes: Evidence from Retrospective Studies and Biological Mechanism.** *J Clin Med* 2021; 10Poly TN, Islam MM, Li YJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441802>
58. **Ciclesonide Inhaler Treatment for Mild-to-Moderate COVID-19: A Randomized, Open-Label, Phase 2 Trial.** *J Clin Med* 2021; 10Song JY, Yoon JG, Seo YB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441840>
59. **JAK Inhibition with Ruxolitinib in Patients with COVID-19 and Severe Pneumonia: Multicenter Clinical Experience from a Compassionate Use Program in Italy.** *J Clin Med* 2021; 10Vannucchi AM, Mortara A, D'Alessio A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442045>
60. **Single versus multiple doses of Tocilizumab in critically ill patients with coronavirus disease 2019 (COVID-19): A two-center, retrospective cohort**

- study.** *J Crit Care* 2021; 66:44-51 Al Sulaiman K, Aljuhani O, Bin Salah K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438133>
61. **Corticosteroids for COVID-19 symptoms and quality of life at 1 year from admission.** *J Med Virol* 2021; Catalán IP, Martí CR, Sota DP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436783>
 62. **COVID-19-associated atypical hemolytic uremic syndrome and use of Eculizumab therapy.** *J Nephrol* 2021:1-5 Gill J, Hebert CA, Colbert GB. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427905>
 63. **Covid-19 post-infectious acute transverse myelitis responsive to corticosteroid therapy: report of two clinical cases.** *J. Neurovirol.* 2021:1-6 Vasconcelos TMF, Oliveira DN, Ferreira GM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449062>
 64. **5α-Reductase Inhibitors are Associated with Reduced Risk of SARS-COV-2 Infection: A Matched-Pair, Registry-Based Analysis.** *J Urol* 2021:101097ju00000000000002180 Lyon M, Li J, Cullen J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433301>
 65. **Repurposing Colchicine in Treating Patients with COVID-19: A Systematic Review and Meta-Analysis.** *Life (Basel)* 2021; 11Lien CH, Lee MD, Weng SL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440608>
 66. **The Rise of SARS-CoV-2 Variants and the Role of Convalescent Plasma Therapy for Management of Infections.** *Life (Basel)* 2021; 11Moubarak M, Kasozi KI, Hetta HF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440478>
 67. **Efficacy of Different Types of Therapy for COVID-19: A Comprehensive Review.** *Life (Basel)* 2021; 11Starshinova A, Malkova A, Zinchenko U *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440497>
 68. **Applications of CRISPR as a potential therapeutic.** *Life Sci* 2021:119908Luthra R, Kaur S, Bhandari K. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453943>
 69. **Mesenchymal stem cells in SARS-CoV-2 infection: A hype or hope.** *Life Sci* 2021; 284:119901Pal D, Goyal J, Sharma U *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453941>
 70. **Use of Thiols in the Treatment of COVID-19: Current Evidence.** *Lung* 2021; 199:335-343Cazzola M, Rogliani P, Salvi SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448938>
 71. **The Anti-Viral Applications of Marine Resources for COVID-19 Treatment: An Overview.** *Mar. Drugs* 2021; 19Geahchan S, Ehrlich H, Rahman MA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436248>
 72. **The Prospect of Lactoferrin Use as Adjunctive Agent in Management of SARS-CoV-2 Patients: A Randomized Pilot Study.** *Medicina (Kaunas)* 2021; 57Algahtani FD, Elabbasy MT, Samak MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441048>
 73. **Effects of Steroids and Tocilizumab on the Immune Response Profile of Patients with COVID-19-Associated ARDS Requiring or Not Veno-Venous Extracorporeal Membrane Oxygenation.** *Membranes (Basel)* 2021; 11Fanelli V, Montrucchio G, Sales G *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436366>
 74. **Drug repurposing for COVID-19 using computational screening: Is Fostamatinib/ R406 a potential candidate?** *Methods* 2021; Saha S, Kumar Halder A, Bandyopadhyay SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455072>
 75. **Non-Toxic Dimeric Peptides Derived from the Bothropstoxin-I Are Potent SARS-CoV-2 and Papain-like Protease Inhibitors.** *Molecules* 2021; 26Freire M,

- Noske GD, Bitencourt NV *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443484>
76. **Experience of Treating COVID-19 With Remdesivir and Convalescent Plasma in a Resource-Limited Setting: A Prospective, Observational Study.** Open Forum Infect Dis 2021; 8:ofab391 Koirala J, Gyanwali P, Gerzoff RB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430672>
 77. **Experimental and computational study of naphthalimide derivatives: Synthesis, optical, nonlinear optical and antiviral properties.** Optik (Stuttg). 2021; 246:167748 Kumar S, Muhammad S, Alarfaji SS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426709>
 78. **Artificial Intelligence in Surveillance, Diagnosis, Drug Discovery and Vaccine Development against COVID-19.** Pathogens 2021; 10 Arora G, Joshi J, Mandal RS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451513>
 79. **Janus Kinase Inhibitors and Coronavirus Disease (COVID)-19: Rationale, Clinical Evidence and Safety Issues.** Pharmaceuticals (Basel) 2021; 14 Gatti M, Turrini E, Raschi E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451835>
 80. **Antiviral Therapeutic Approaches for SARS-CoV-2 Infection: A Systematic Review.** Pharmaceuticals (Basel) 2021; 14 Gil Martínez V, Avedillo Salas A, Santander Ballestín S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451833>
 81. **Reynoutria Rhizomes as a Natural Source of SARS-CoV-2 Mpro Inhibitors- Molecular Docking and In Vitro Study.** Pharmaceuticals (Basel) 2021; 14 Nawrot-Hadzik I, Zmudzinski M, Matkowski A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451839>
 82. **Pharmacological Interactions of Nintedanib and Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis in Times of COVID-19 Pandemic.** Pharmaceuticals (Basel) 2021; 14 Serra López-Matencio JM, Gómez M, Vicente-Rabana EF *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451916>
 83. **Mathematical Modeling of Remdesivir to Treat COVID-19: Can Dosing Be Optimized?** Pharmaceutics 2021; 13 Conway JM, Abel Zur Wiesch P. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452142>
 84. **Model-Informed Repurposing of Medicines for SARS-CoV-2: Extrapolation of Antiviral Activity and Dose Rationale for Paediatric Patients.** Pharmaceutics 2021; 13 Romano F, D'Agate S, Della Pasqua OD. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452260>
 85. **Nebulised Isotonic Hydroxychloroquine Aerosols for Potential Treatment of COVID-19.** Pharmaceutics 2021; 13 Tai W, Chow MYT, Chang RYK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452220>
 86. **Combination of Hua Shi Bai Du granule (Q-14) and standard care in the treatment of patients with coronavirus disease 2019 (COVID-19): A single-center, open-label, randomized controlled trial.** Phytomedicine 2021; 91:153671 Liu J, Yang W, Liu Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425471>
 87. **Anticins from Antrodia cinnamomea and Antrodia salmonea Inhibit Angiotensin-Converting Enzyme 2 (ACE2) in Epithelial Cells: Can Be Potential Candidates for the Development of SARS-CoV-2 Prophylactic Agents.** Plants (Basel) 2021; 10 Senthil Kumar KJ, Gokila Vani M, Hsieh HW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451782>
 88. **Repurposing the inhibitors of COVID-19 key proteins through molecular docking approach.** Process Biochem. 2021; 110:216-222 Alghamdi HA, Attique SA,

- Yan W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421325>
89. **Comparing antiviral strategies against COVID-19 via multiscale within-host modelling.** *R Soc Open Sci* 2021; 8:210082Fatehi F, Bingham RJ, Dykeman EC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430042>
 90. **Systematic Review on Treatment Trials of Tocilizumab- A Repurposing Drug Against COVID-19.** *Rev. Recent Clin. Trials* 2021; Banerjee S, Mahapatra AK. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429051>
 91. **[Potentially useful drugs in the treatment of COVID-19 in Primary Care].** *Semergen* 2021; García-Matarín L, Velilla-Zancada S, Trillo-Calvo E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454827>
 92. **Effectivity of mesenchymal stem cells for bleomycin-induced pulmonary fibrosis: a systematic review and implication for clinical application.** *Stem Cell. Res. Ther.* 2021; 12:470Zhao Y, Yan Z, Liu Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420515>
 93. **A meta-analysis of granulocyte-macrophage colony-stimulating factor (GM-CSF) antibody treatment for COVID-19 patients.** *Ther. Adv. Chronic Dis.* 2021; 12:20406223211039699Guan JT, Wang WJ, Jin D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34434540>
 94. **Protocol for the Controlled evaluation of Angiotensin Receptor blockers for COVID-19 respiratory disease (CLARITY): a randomised controlled trial.** *Trials* 2021; 22:573Hockham C, Kotwal S, Wilcox A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454580>
 95. **Accelerated first-in-human clinical trial of EIDD-2801/MK-4482 (molnupiravir), a ribonucleoside analog with potent antiviral activity against SARS-CoV-2.** *Trials* 2021; 22:561Holman W, Holman W, McIntosh S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425873>
 96. **Efficacy of two siddha polyherbal decoctions, Nilavembu Kudineer and Kaba Sura Kudineer, along with standard allopathy treatment in the management of mild to moderate symptomatic COVID-19 patients-a double-blind, placebo-controlled, clinical trial.** *Trials* 2021; 22:570Srivastava A, Rengaraju M, Srivastava S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454572>
 97. **Non-Nucleotide RNA-Dependent RNA Polymerase Inhibitor That Blocks SARS-CoV-2 Replication.** *Viruses* 2021; 13Dejmek M, Konkolová E, Eyer L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452451>
 98. **What Is the Role of Therapeutic Plasma Exchange as an Adjunctive Treatment in Severe COVID-19: A Systematic Review.** *Viruses* 2021; 13Krzycz Ł J, Putowski Z, Czok M, Hofman M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452349>
 99. **Plant-Produced Glycosylated and In Vivo Deglycosylated Receptor Binding Domain Proteins of SARS-CoV-2 Induce Potent Neutralizing Responses in Mice.** *Viruses* 2021; 13Mamedov T, Yuksel D, Ilgin M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452461>
 100. **Detection of IFN γ -Secreting CD4(+) and CD8(+) Memory T Cells in COVID-19 Convalescents after Stimulation of Peripheral Blood Mononuclear Cells with Live SARS-CoV-2.** *Viruses* 2021; 13Matyushenko V, Isakova-Sivak I, Kudryavtsev I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452355>
 101. **Protective Effects of Astodimer Sodium 1% Nasal Spray Formulation against SARS-CoV-2 Nasal Challenge in K18-hACE2 Mice.** *Viruses* 2021; 13Paull JRA, Luscombe CA, Castellarnau A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452519>

102. **Emergence of E484K Mutation Following Bamlanivimab Monotherapy among High-Risk Patients Infected with the Alpha Variant of SARS-CoV-2.** Viruses 2021; 13Peiffer-Smadja N, Bridier-Nahmias A, Ferré VM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452507>
103. **May mesenchymal stem cell transplantation be a solution for COVID-19 induced cytokine storm?** World J Transplant 2021; 11:344-355Sütlüoğlu H, Özdemir Ö. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447671>
104. **Effectiveness of Convalescent Plasma Therapy in Severe or Critically Ill COVID-19 Patients: A Retrospective Cohort Study.** Yonsei Med. J. 2021; 62:799-805Cho Y, Sohn Y, Hyun J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427065>

Trials (22 articles)

1. **Risk of SARS-CoV-2 transmission from universally masked healthcare workers to patients or residents: A prospective cohort study.** Am. J. Infect. Control 2021; Williams VR, Maze D, Mieusement L, Tomiczek N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455030>
2. **Differences in the Concentration of Anti-SARS-CoV-2 IgG Antibodies Post-COVID-19 Recovery or Post-Vaccination.** Cells 2021; 10Tretyn A, Szczepanek J, Skorupa M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440721>
3. **Risk factors and outcome of pulmonary aspergillosis in critically ill coronavirus disease 2019 patients- a multinational observational study by the European Confederation of Medical Mycology.** Clin Microbiol Infect 2021; Prattes J, Wauters J, Giacobbe DR *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454093>
4. **First in Human Study of Bamlanivimab in a Randomized Trial of Hospitalized Patients with COVID-19.** Clin Pharmacol Ther 2021; Chen P, Datta G, Li YG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455583>
5. **Stratified randomization for platform trials with differing experimental arm eligibility.** Clin. Trials 2021;17407745211028872Selukar S, May S, Law D, Othus M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420417>
6. **Festina lente.** Contemp Clin Trials Commun 2021; 23:100837Petrini C, Ricciardi W. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423173>
7. **Acceptance of COVID-19 Vaccine in Pakistan: A Nationwide Cross-Sectional Study.** Cureus 2021; 13:e16603Qamar MA, Irfan O, Dhillon RA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34430184>
8. **Combined Therapy of Ciclosporin Plus Favipiravir in the Management of Patients with Severe COVID-19, not Responding to Dexamethasone: A non-Controlled Prospective Trial.** Int Immunopharmacol 2021; 99:108043Barati S, MohammadReza Hashemian S, Tabarsi P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426105>
9. **Hydroxychloroquine plus azithromycin early treatment of mild COVID-19 in outpatient setting: a randomized, double-blinded, placebo-controlled clinical trial evaluating viral clearance.** Int J Antimicrob Agents 2021;106428Rodrigues C, Freitas-Santos RS, Levi JE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454044>
10. **Ciclesonide Inhaler Treatment for Mild-to-Moderate COVID-19: A Randomized, Open-Label, Phase 2 Trial.** J Clin Med 2021; 10Song JY, Yoon JG, Seo YB *et al.*

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441840>

11. **Single versus multiple doses of Tocilizumab in critically ill patients with coronavirus disease 2019 (COVID-19): A two-center, retrospective cohort study.** *J Crit Care* 2021; 66:44-51 Al Sulaiman K, Aljuhani O, Bin Salah K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438133>
12. **COVID-19 outcomes of 10,881 patients: retrospective study of neurological symptoms and associated manifestations (Philippine CORONA Study).** *J Neural Transm (Vienna)* 2021;1-17 Espiritu AI, Sy MCC, Anlacan VMM, Jamora RDG. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448930>
13. **Epidemiological, Clinical, and Laboratory Predictors of In-Hospital Mortality Among COVID-19 Patients Admitted in a Tertiary COVID Dedicated Hospital, Northern India: A Retrospective Observational Study.** *J. Prim. Care Community Health* 2021; 12:21501327211041486 Ahmad S, Kumar P, Shekhar S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427136>
14. **Redesigning a Web-Based Stakeholder Consensus Meeting About Core Outcomes for Clinical Trials: Formative Feedback Study.** *JMIR Form Res* 2021; 5:e28878 Katiri R, Hall DA, Hoare DJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420915>
15. **ANCA-associated Glomerulonephritis Following the Pfizer-BioNTech COVID-19 Vaccine.** *Kidney Int Rep* 2021; Dube GK, Benvenuto LJ, Batal I. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423176>
16. **Repurposing Colchicine in Treating Patients with COVID-19: A Systematic Review and Meta-Analysis.** *Life (Basel)* 2021; 11 Lien CH, Lee MD, Weng SL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440608>
17. **The Prospect of Lactoferrin Use as Adjunctive Agent in Management of SARS-CoV-2 Patients: A Randomized Pilot Study.** *Medicina (Kaunas)* 2021; 57 Algahtani FD, Elabbasy MT, Samak MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441048>
18. **Pivoting during a pandemic: lessons learned from transitioning a multisite randomized controlled trial to a remote protocol in response to COVID-19.** *Transl. Behav. Med.* 2021; Inverso H, Abadula F, Morrow T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427687>
19. **Protocol for the Controlled evaluation of Angiotensin Receptor blockers for COVID-19 respiratory disease (CLARITY): a randomised controlled trial.** *Trials* 2021; 22:573 Hockham C, Kotwal S, Wilcox A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454580>
20. **Accelerated first-in-human clinical trial of EIDD-2801/MK-4482 (molnupiravir), a ribonucleoside analog with potent antiviral activity against SARS-CoV-2.** *Trials* 2021; 22:561 Holman W, Holman W, McIntosh S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425873>
21. **Efficacy of two siddha polyherbal decoctions, Nilavembu Kudineer and Kaba Sura Kudineer, along with standard allopathy treatment in the management of mild to moderate symptomatic COVID-19 patients-a double-blind, placebo-controlled, clinical trial.** *Trials* 2021; 22:570 Srivastava A, Rengaraju M, Srivastava S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454572>
22. **Effectiveness of Convalescent Plasma Therapy in Severe or Critically Ill COVID-19 Patients: A Retrospective Cohort Study.** *Yonsei Med. J.* 2021; 62:799-805 Cho Y, Sohn Y, Hyun J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427065>

Vaccines (161 articles)

1. **Exacerbation of Hailey-Hailey Disease Following SARS-CoV-2 Vaccination.** Acta Derm. Venereol. 2021; Armoni-Weiss G, Sheffer-Levi S, Horev-Yakir L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34436620>
2. **Neutralization of SARS-CoV-2 requires antibodies against conformational receptor-binding domain epitopes.** Allergy 2021; Gattinger P, Niespodziana K, Stiasny K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453317>
3. **COVID-19 vaccine use in immunocompromised patients: A commentary on evidence and recommendations.** Am. J. Health Syst. Pharm. 2021; Duly K, Farraye FA, Bhat S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455440>
4. **Pregnancy and birth outcomes after SARS-CoV-2 vaccination in pregnancy.** Am J Obstet Gynecol MFM 2021:100467Theiler RN, Wick M, Mehta R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425297>
5. **[Vaccination against COVID-19 in pharmacies in the Auvergne-Rhône-Alpes region. Study conducted three months after the start of vaccination].** Ann. Pharm. Fr. 2021; Boulliat C, Malachane AS, Massoubre B. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425077>
6. **Antibody response to the Janssen/Johnson & Johnson SARS-CoV-2 vaccine in patients with rheumatic and musculoskeletal diseases.** Ann. Rheum. Dis. 2021; Chiang TP, Connolly CM, Ruddy JA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429320>
7. **Initial experience of the safety and tolerability of the BNT162b2 (Pfizer-Bio-N-Tech) vaccine in extremely vulnerable children aged 12-15 years.** Arch. Dis. Child. 2021; King H, Deshpande S, Woodbridge T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446440>
8. **Deep survey for designing a vaccine against SARS-CoV-2 and its new mutations.** Biologia (Bratisl) 2021:1-12Vakili B, Bagheri A, Negahdaripour M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421121>
9. **Side Effects of mRNA-Based and Viral Vector-Based COVID-19 Vaccines among German Healthcare Workers.** Biology (Basel) 2021; 10Klugar M, Riad A, Mekhemar M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439984>
10. **COVID-19 Disease, Women's Predominant Non-Heparin Vaccine-Induced Thrombotic Thrombocytopenia and Kounis Syndrome: A Passepartout Cytokine Storm Interplay.** Biomedicines 2021; 9Kounis NG, Koniari I, de Gregorio C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440163>
11. **COVID-19 Pathogenesis: From Molecular Pathway to Vaccine Administration.** Biomedicines 2021; 9Nappi F, Iervolino A, Avtaar Singh SS. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440107>
12. **Attitudes toward COVID-19 vaccination and willingness to pay: comparison of people with and without mental disorders in China.** BJPsych Open 2021; 7:e146Hao F, Wang B, Tan W *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422295>
13. **Did vaccine inequity lead to the second wave of COVID-19 infections in Trinidad and Tobago?** BMJ Glob Health 2021; 6Maharaj SB, Ramsewak SS, Dookeram D, Franco D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433544>
14. **What is the extent of COVID-19 vaccine hesitancy in Bangladesh? A cross-sectional rapid national survey.** BMJ Open 2021; 11:e050303Ali M, Hossain A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429316>

15. **The impact of spike mutated variants of SARS-CoV2 [Alpha, Beta, Gamma, Delta, and Lambda] on the efficacy of subunit recombinant vaccines.** Braz. J. Infect. Dis. 2021; 25:101606Mohammadi M, Shayestehpour M, Mirzaei H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428473>
16. **Detection of SARS-CoV-2-Specific IgA in the Human Milk of COVID-19 Vaccinated Lactating Health Care Workers.** Breastfeed. Med. 2021; Valcarce V, Stafford LS, Neu J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427487>
17. **Efficacy of the mRNA-Based BNT162b2 COVID-19 Vaccine in Patients with Solid Malignancies Treated with Anti-Neoplastic Drugs.** Cancers (Basel) 2021; 13Agbarya A, Sarel I, Ziv-Baran T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439346>
18. **Temporal association between the COVID-19 Ad26.COV2.S vaccine and acute myocarditis: A case report and literature review.** Cardiovasc. Revasc. Med. 2021; Sulemankhil I, Abdelrahman M, Negi SI. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420869>
19. **An AAV-based, room-temperature-stable, single-dose COVID-19 vaccine provides durable immunogenicity and protection in non-human primates.** Cell Host Microbe 2021; Zabaleta N, Dai W, Bhatt U *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428428>
20. **Combining spike- and nucleocapsid-based vaccines improves distal control of SARS-CoV-2.** Cell Rep. 2021; 36:109664Dangi T, Class J, Palacio N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450033>
21. **Kinetics of Anti-SARS-CoV-2 Antibody Responses 3 Months Post Complete Vaccination with BNT162b2; A Prospective Study in 283 Health Workers.** Cells 2021; 10Terpos E, Trougakos IP, Karalis V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440710>
22. **Rituximab-induced acute lympholysis and pancytopenia after COVID-19 vaccination.** Clin Case Rep 2021; 9:e04517Leung VS, Lin Y. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429981>
23. **Harmonization of six quantitative SARS-CoV-2 serological assays using sera of vaccinated subjects.** Clin Chim Acta 2021; 522:144-151Ferrari D, Clementi N, Span√≤ SM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425105>
24. **Optometrists in New Zealand become COVID vaccinators. Further advancement in the profession of optometry.** Clin. Exp. Optom. 2021;1-2Ng RJ, Dhana JJ. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427547>
25. **Insights from a murine model of COVID-19 mRNA vaccination-induced myopericarditis: Could accidental intravenous vaccine injection induce myopericarditis?** Clin Infect Dis 2021; Knowlton KU. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453510>
26. **Which are the best coronavirus disease 2019 vaccines?** Clin Microbiol Infect 2021; Omrani AS, Tleyjeh IM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428593>
27. **Thrombotic Thrombocytopenic Purpura Presentation in an Elderly Gentleman Following COVID Vaccine Circumstances.** Cureus 2021; 13:e16619Chamarti K, Dar K, Reddy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447649>
28. **Unusual Presentation of Acute Perimyocarditis Following SARS-COV-2 mRNA-1237 Moderna Vaccination.** Cureus 2021; 13:e16590Khogali F, Abdelrahman R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447639>
29. **Drug-Induced Liver Injury After COVID-19 Vaccine.** Cureus 2021; 13:e16491Mann R, Sekhon S, Sekhon S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447639>

term=34430106

30. **Acceptance of COVID-19 Vaccine in Pakistan: A Nationwide Cross-Sectional Study.** Cureus 2021; 13:e16603Qamar MA, Irfan O, Dhillon RA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430184>
31. **Cerebral venous sinus thrombosis after COVID-19 vaccination : Neurological and radiological management.** Der Radiologe 2021; Walter U, Volmer E, Wittstock M *et al.*
32. **Subacute cutaneous lupus erythematosus flare triggered by COVID-19 vaccine.** Dermatol Ther 2021:e15114Joseph AK, Chong BF.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34455671>
33. **COVID-19 post-vaccination lymphadenopathy: Report of cytological findings from fine needle aspiration biopsy.** Diagn. Cytopathol. 2021; Tan NJH, Tay KXJ, Wong SBJ, Nga ME. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34432391>
34. **Long-term humoral immunogenicity, safety and protective efficacy of inactivated vaccine against COVID-19 (CoviVac) in preclinical studies.** Emerg Microbes Infect 2021:1-60Kozlovskaya LI, Piniaeva AN, Ignatyev GM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427172>
35. **Preparation of COVID-19 vaccines in hospital pharmacies: a half-year report from Slovakia.** Eur J Hosp Pharm 2021; Dudv k B, Slimv kovv  f, Komjv thy H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426489>
36. **Delayed skin reaction after mRNA-1273 vaccine against SARS-CoV-2: a rare clinical reaction.** Eur. J. Med. Res. 2021; 26:98Hoff NP, Freise NF, Schmidt AG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433495>
37. **COVID-19 Vaccination in Fragile Patients: Current Evidence and an Harmonized Transdisease Trial.** Front. Immunol. 2021; 12:704110Agrati C, Di Cosimo S, Fenoglio D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447374>
38. **BCG Vaccine Derived Peptides Induce SARS-CoV-2 T Cell Cross-Reactivity.** Front. Immunol. 2021; 12:692729Eggenhuizen PJ, Ng BH, Chang J *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34421902>
39. **Severe Multiple Sclerosis Relapse After COVID-19 Vaccination: A Case Report.** Front. Neurol. 2021; 12:721502Maniscalco GT, Manzo V, Di Battista ME *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447349>
40. **COVID-19 Vaccination Attitudes With Neuromyelitis Optica Spectrum Disorders: Vaccine Hesitancy and Coping Style.** Front. Neurol. 2021; 12:717111Xu Y, Cao Y, Ma Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34421811>
41. **COVID-19 Vaccination in Lower-Middle Income Countries: National Stakeholder Views on Challenges, Barriers, and Potential Solutions.** Front Public Health 2021; 9:709127Tagoe ET, Sheikh N, Morton A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422750>
42. **Concise Update on Genomics of COVID-19: Approach to Its latest Mutations, Escalated Contagiousness, and Vaccine Resistance.** Glob Med Genet 2021; 8:85-89Khodavirdipour A, Jabbari S, Keramat F, Alikhani MY.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34430958>
43. **COVID-19 Vaccine Literacy of Family Carers for Their Older Parents in Japan.** Healthcare (Basel) 2021; 9Costantini H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442175>
44. **Pityriasis rosea after administration of Pfizer-BioNTech COVID-19 vaccine.** Hum Vaccin Immunother 2021:1-2Cohen OG, Clark AK, Milbar H, Tarlow M.

<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435935>

45. **In the face of the future, what do we learn from COVID-19?** Hum Vaccin Immunother 2021;1-2El-Arabey AA, Abdalla M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435940>
46. **Relevance of immune response and vaccination strategies of SARS-CoV-2 in the phase of viral red queen dynamics.** Indian J. Med. Microbiol. 2021; Jacob JJ, John Fletcher G, Monisha Priya T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454775>
47. **COVID-19 Vaccine in Pregnant and Lactating Women: A Review of Existing Evidence and Practice Guidelines.** Infect Dis Rep 2021; 13:685-699Garg I, Shekhar R, Sheikh AB, Pal S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449637>
48. **Vaccine Hesitancy towards COVID-19 Vaccination: Investigating the Role of Information Sources through a Mediation Analysis.** Infect Dis Rep 2021; 13:712-723Reno C, Maietti E, Di Valerio Z *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449654>
49. **A COVID-19 Epidemic Model Predicting the Effectiveness of Vaccination in the US.** Infect Dis Rep 2021; 13:654-667Webb G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449651>
50. **Preliminary Evaluation of QuantiFERON SARS-CoV-2 and QIArearch Anti-SARS-CoV-2 Total Test in Recently Vaccinated Individuals.** Infect Dis Ther 2021;1-12Jaganathan S, Stieber F, Rao SN *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435336>
51. **Seroconversion Following SARS-CoV-2 Infection or Vaccination in Pediatric IBD Patients.** Inflamm. Bowel Dis. 2021; Spencer EA, Klang E, Dolinger M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427638>
52. **Current scenario of COVID-19 vaccinations and immune response along with antibody titer in vaccinated inhabitants of different countries.** Int Immunopharmacol 2021; 99:108050Hussain A, Rafeeq H, Asif HM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34426120>
53. **Vaccine design and delivery approaches for COVID-19.** Int Immunopharmacol 2021; 100:108086Shahzamani K, Mahmoudian F, Ahangarzadeh S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34454291>
54. **COVID-19 Vaccine Hesitancy among the Public in Kuwait: A Cross-Sectional Survey.** Int J Environ Res Public Health 2021; 18Albrahim J, Awad A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444585>
55. **Induction of SARS-CoV-2-Specific IgG and IgA in Serum and Milk with Different SARS-CoV-2 Vaccines in Breastfeeding Women: A Cross-Sectional Study in Northern Spain.** Int J Environ Res Public Health 2021; 18Lechosa-Muñiz C, Paz-Zulueta M, Mendez-Legaza JM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444579>
56. **"The Risk Seems Too High": Thoughts and Feelings about COVID-19 Vaccination.** Int J Environ Res Public Health 2021; 18Moore R, Willis DE, Shah SK *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444438>
57. **COVID-19 Vaccine Passport and International Traveling: The Combined Effect of Two Nudges on Americans' Support for the Pass.** Int J Environ Res Public Health 2021; 18Sotis C, Allena M, Reyes R, Romano A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444549>
58. **The strength of association between pre- and post-booster BNT162b2 anti-SARS-CoV-2 antibodies levels depends on the immunoassay.** Int J Infect Dis

- 2021; Salvagno GL, Henry BM, Lippi G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455083>
59. **Herpes Zoster after COVID-vaccination.** *Int J Infect Dis* 2021; van Dam CS, Lede I, Schaar J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428545>
 60. **Putative Role of Vitamin D for COVID-19 Vaccination.** *Int J Mol Sci* 2021; 22Chiu SK, Tsai KW, Wu CC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445700>
 61. **An old entity, a new trigger: Post COVID-19 vaccine Pityriasis rubra pilaris.** *Int. J. Risk Saf. Med.* 2021; Sahni MK, Roy K, Asati DP, Khurana U. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420983>
 62. **Australia and New Zealand Transplant and Cellular Therapies COVID-19 vaccination consensus position statement.** *Intern. Med. J.* 2021; 51:1321-1323Hamad N, Ananda-Rajah M, Gilroy N *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423546>
 63. **Dermatology Patients on Biologics and Certain Other Systemic Therapies Should Receive a 'Booster' mRNA COVID-19 Vaccine Dose: A Critical Appraisal of Recent FDA and ACIP Recommendations.** *J Am Acad Dermatol* 2021; Waldman RA, Grant-Kels JM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437985>
 64. **We Need to Inform COVID-19 Vaccinating Clinics Concerning Polyethylene Glycol Allergy.** *J. Am. Soc. Echocardiogr.* 2021; Gelfman DM. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438025>
 65. **Assessment of public intention to get vaccination against COVID-19: Evidence from a developing country.** *J. Eval. Clin. Pract.* 2021; Irfan M, Shahid AL, Ahmad M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427007>
 66. **New-Onset Autoimmune Hepatitis following mRNA Covid-19 Vaccination in a 36-year-old woman with Primary Sclerosing Cholangitis - should we be more vigilant?** *J Hepatol* 2021; Zhou T, Fronhoffs F, Dold L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450237>
 67. **Six-month interim analysis of ongoing immunogenicity surveillance of the mRNA-1273 vaccine in healthcare workers: A third dose is expected.** *J Infect* 2021; Tré-Hardy M, Cupaiolo R, Wilmet A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34437927>
 68. **Public sentiment analysis and topic modeling regarding COVID-19 vaccines on the Reddit social media platform: A call to action for strengthening vaccine confidence.** *J Infect Public Health* 2021; Melton CA, Olusanya OA, Ammar N, Shaban-Nejad A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426095>
 69. **The future of COVID-19: A vaccine review.** *J Infect Public Health* 2021; Vashi AP, Coiado OC. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454862>
 70. **Effect of mutation and vaccination on spread, severity, and mortality of COVID-19 disease.** *J Med Virol* 2021; Zawbaa HM, Osama H, El-Gendy A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427922>
 71. **Prioritizing Cancer Patients for Vaccination in India.** *J. Natl. Cancer Inst.* 2021; Gangopadhyay A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453841>
 72. **COVID-19 Vaccines in Patients with Maintenance Hemodialysis.** *J Pers Med* 2021; 11Yen CC, Lin SY, Chen SC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442432>
 73. **Sociodemographic Determinants of COVID-19 Vaccine Hesitancy, Fear of Infection, and Protection Self-Efficacy.** *J. Prim. Care Community Health* 2021;

- 12:21501327211040746McElfish PA, Willis DE, Shah SK *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34427126>
74. **Attitudes of patients with severe mental illness towards COVID-19 vaccinations: A preliminary report from a public psychiatric hospital.** J. Psychiatr. Res. 2021; 143:16-20Danenber R, Shemesh S, Tzur Bitan D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34438198>
75. **A Case Series of Cutaneous COVID-19 Vaccine Reactions at Loma Linda University Department of Dermatology.** JAAD Case Rep 2021; Holmes GA, Desai M, Limone B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423106>
76. **Analyzing Social Media to Explore the Attitudes and Behaviors Following the Announcement of Successful COVID-19 Vaccine Trials: Infodemiology Study.** JMIR Infodemiology 2021; 1:e28800Boucher JC, Cornelson K, Benham JL *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34447924>
77. **The Influence of COVID-19 Vaccination on Daily Cases, Hospitalization, and Death Rate in Tennessee, United States: Case Study.** JMIRx Med 2021; 2:e29324Roghani A. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34424255>
78. **[SARS-CoV-2 Vaccination for Adult Patients with Inflammatory Bowel Disease: Expert Consensus Statements by KASID].** Korean J. Gastroenterol. 2021; 78:117-128Lee YJ, Kim SE, Park YE *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446634>
79. **Cerebral venous thrombosis after vaccination against COVID-19 in the UK: a multicentre cohort study.** The Lancet 2021; Perry RJ, Tamborska A, Singh B *et al.*
80. **COVID-19 vaccine strategies for Aotearoa New Zealand: a mathematical modelling study.** Lancet Reg Health West Pac 2021; 15:100256Nguyen T, Adnan M, Nguyen BP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426804>
81. **Guillain-Barré syndrome after COVID-19 mRNA vaccination in a liver transplant recipient with favorable treatment response.** Liver Transpl. 2021; Hughes DL, Brunn JA, Jacobs J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34431208>
82. **Are We Paving the Way to Dig Out of the "Pandemic Hole"? A Narrative Review on SARS-CoV-2 Vaccination: From Animal Models to Human Immunization.** Med Sci (Basel) 2021; 9Tardiolo G, Brianti P, Sapienza D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34449681>
83. **Effectiveness of BNT162b2 COVID-19 Vaccine in Preventing Severe Symptomatic Infection among Healthcare Workers.** Medicina (Kaunas) 2021; 57Murillo-Zamora E, Trujillo X, Huerta M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440952>
84. **Impact of Age and Sex on Antibody Response Following the Second Dose of COVID-19 BNT162b2 mRNA Vaccine in Greek Healthcare Workers.** Microorganisms 2021; 9Vassilaki N, Gargalionis AN, Bletsas A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34442806>
85. **An Update on COVID-19 Vaccine Induced Thrombotic Thrombocytopenia Syndrome and Some Management Recommendations.** Molecules 2021; 26Islam A, Bashir MS, Joyce K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34443589>
86. **A Novel Case of Bifacial Diplegia Variant of Guillain-Barré Syndrome Following Janssen COVID-19 Vaccination.** Neurol. Int. 2021; 13:404-409Prasad A, Hurlburt G, Podury S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449715>
87. **COVID-19 Vaccines in Children with Cow's Milk and Food Allergies.** Nutrients 2021; 13Liotti L, Bianchi A, Bottau P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449715>

term=34444795

88. **COVID-19: Lessons from Norway tragedy must be considered in vaccine rollout planning in least developed/developing countries.** Open Med (Wars). 2021; 16:1168-1169Bari R, Bepari AK, Reza HM.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34435142>
89. **COVID-19: the implications and consequences of prolonged lockdown and COVID-19 vaccine cost in a low-middle income country.** Pan Afr. Med. J. 2021; 39:48Ubom AE, Ijarotimi OA, Nyeche S, Ikimalo JI.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34422171>
90. **Artificial Intelligence in Surveillance, Diagnosis, Drug Discovery and Vaccine Development against COVID-19.** Pathogens 2021; 10Arora G, Joshi J, Mandal RS *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451513>
91. **Renal Thrombotic Microangiopathy in Concurrent COVID-19 Vaccination and Infection.** Pathogens 2021; 10De Fabritiis M, Angelini ML, Fabbriozio B *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451509>
92. **An Overview of Vaccines against SARS-CoV-2 in the COVID-19 Pandemic Era.** Pathogens 2021; 10Pascual-Iglesias A, Canton J, Ortega-Prieto AM *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451494>
93. **Potential for Developing Plant-Derived Candidate Vaccines and Biologics against Emerging Coronavirus Infections.** Pathogens 2021; 10Shanmugaraj B, Siri wattananon K, Malla A, Phoolcharoen W. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451516>
94. **Acceptance of COVID-19 Vaccine and Determinant Factors Among Patients with Chronic Disease Visiting Dessie Comprehensive Specialized Hospital, Northeastern Ethiopia.** Patient Prefer Adherence 2021; 15:1795-1805Berihun G, Walle Z, Berhanu L, Teshome D. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429591>
95. **Prevalence and Significance of Hypermetabolic Lymph Nodes Detected by 2-[(18)F]FDG PET/CT after COVID-19 Vaccination: A Systematic Review and a Meta-Analysis.** Pharmaceuticals (Basel) 2021; 14Treglia G, Cuzzocrea M, Giovanella L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451859>
96. **Pharmacists' Perceptions and Drivers of Immunization Practices for COVID-19 Vaccines: Results of a Nationwide Survey Prior to COVID-19 Vaccine Emergency Use Authorization.** Pharmacy (Basel) 2021; 9Jacob SS, Bridgeman MB, Kim H *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449708>
97. **Multisystem inflammatory syndrome after SARS-CoV-2 vaccination (MIS-V), to interpret with caution.** Postgrad. Med. J. 2021; Iyengar KP, Nune A, Ish P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446448>
98. **Fake COVID-19 vaccination in India: an emerging dilemma?** Postgrad. Med. J. 2021; Mukherjee D, Maskey U, Ishak A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446447>
99. **Vaccination against COVID-19 in Patients Treated with Psychotropic Drugs.** Psychiatr. Prax. 2021; Seifert J, Heck J, Eckermann G *et al.*
100. **Value judgments in a COVID-19 vaccination model: A case study in the need for public involvement in health-oriented modelling.** Soc. Sci. Med. 2021; 286:114323Harvard S, Winsberg E, Symons J, Adibi A.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428600>
101. **Transdermal approaches to vaccinations in the COVID-19 pandemic era.** Ther Adv Vaccines Immunother 2021; 9:25151355211039073Lee MS, Pan CX,

- Nambudiri VE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34447901>
102. **The roles of platelets in COVID-19-associated coagulopathy and vaccine-induced immune thrombotic thrombocytopenia.** *Trends Cardiovasc. Med.* 2021; Iba T, Levy JH. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455073>
 103. **Walking the Tightrope: Reevaluating science communication in the era of COVID-19 vaccines.** *Vaccine* 2021; Dudley MZ, Bernier R, Brewer J, Salmon DA. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34446317>
 104. **Could live attenuated vaccines better control COVID-19?** *Vaccine* 2021; Okamura S, Ebina H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426024>
 105. **Continuity of routine immunization programs in Canada during the COVID-19 pandemic.** *Vaccine* 2021; Sell H, Assi A, Driedger SM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426028>
 106. **Examining Vaccine Hesitancy in Sub-Saharan Africa: A Survey of the Knowledge and Attitudes among Adults to Receive COVID-19 Vaccines in Ghana.** *Vaccines (Basel)* 2021; 9Acheampong T, Akorsikumah EA, Osae-Kwapong J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451939>
 107. **Vaccine Development against COVID-19: Study from Pre-Clinical Phases to Clinical Trials and Global Use.** *Vaccines (Basel)* 2021; 9Ahmed S, Khan S, Imran I *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451961>
 108. **COVID-19 Research: Lessons from Non-Human Primate Models.** *Vaccines (Basel)* 2021; 9Albrecht L, Bishop E, Jay B *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452011>
 109. **Domestic Saudi Arabian Travellers' Understanding about COVID-19 and Its Vaccination.** *Vaccines (Basel)* 2021; 9Alshahrani NZ, Alshahrani SM, Farag S, Rashid H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452020>
 110. **Antibody Responses to Natural SARS-CoV-2 Infection or after COVID-19 Vaccination.** *Vaccines (Basel)* 2021; 9Altawalah H. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452035>
 111. **A Modeling Study on Vaccination and Spread of SARS-CoV-2 Variants in Italy.** *Vaccines (Basel)* 2021; 9Antonini C, Calandrini S, Bianconi F. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452040>
 112. **COVID-19 Vaccine Hesitancy-A Scoping Review of Literature in High-Income Countries.** *Vaccines (Basel)* 2021; 9Aw J, Seng JJB, Seah SSY, Low LL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452026>
 113. **Romanian Medical Students' Attitude towards and Perceived Knowledge on COVID-19 Vaccination.** *Vaccines (Basel)* 2021; 9Bălan A, Bejan I, Bonciu S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451979>
 114. **COVID-19 Vaccine Hesitancy and Uptake among Nursing Staff during an Active Vaccine Rollout.** *Vaccines (Basel)* 2021; 9Baniak LM, Luyster FS, Raible CA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451983>
 115. **Heterologous ChAdOx1 nCoV-19/BNT162b2 Prime-Boost Vaccination Induces Strong Humoral Responses among Health Care Workers.** *Vaccines (Basel)* 2021; 9Benning L, Töllner M, Hidmark A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451982>
 116. **Sex Disparities in Efficacy in COVID-19 Vaccines: A Systematic Review and Meta-Analysis.** *Vaccines (Basel)* 2021; 9Bignucolo A, Scarabel L, Mezzalana S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451950>
 117. **COVID-19 Vaccination in Patients with Severe Asthma on Biologic Treatment: Safety, Tolerability, and Impact on Disease Control.** *Vaccines (Basel)* 2021;

- 9Caminati M, Guarnieri G, Batani V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451978>
118. **A Glimpse into the Diverse Cellular Immunity against SARS-CoV-2. *Vaccines* (Basel) 2021;** 9Chang CW, Liu Y, Jiao C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451952>
 119. **Nervous and Muscular Adverse Events after COVID-19 Vaccination: A Systematic Review and Meta-Analysis of Clinical Trials. *Vaccines* (Basel) 2021;** 9Chen J, Cai Y, Chen Y *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452064>
 120. **Factors Affecting the Antibody Immunogenicity of Vaccines against SARS-CoV-2: A Focused Review. *Vaccines* (Basel) 2021;** 9Cheng ZJ, Xue M, Zheng P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451994>
 121. **Influenza Virus-like Particle (VLP) Vaccines Expressing the SARS-CoV-2 S Glycoprotein, S1, or S2 Domains. *Vaccines* (Basel) 2021;** 9Chu KB, Kang HJ, Yoon KW *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452044>
 122. **Early Serological Response to BNT162b2 mRNA Vaccine in Healthcare Workers. *Vaccines* (Basel) 2021;** 9Cocomazzi G, Piazzolla V, Squillante MM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452038>
 123. **Efficient Maternal to Neonate Transfer of Neutralizing Antibodies after SARS-CoV-2 Vaccination with BNT162b2: A Case-Report and Discussion of the Literature. *Vaccines* (Basel) 2021;** 9Douxflis J, Gillot C, De Gottal É *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452032>
 124. **Disparities in COVID-19 Vaccination among Low-, Middle-, and High-Income Countries: The Mediating Role of Vaccination Policy. *Vaccines* (Basel) 2021;** 9Duan Y, Shi J, Wang Z *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452030>
 125. **COVID-19 Vaccine Acceptability and Its Determinants in Mozambique: An Online Survey. *Vaccines* (Basel) 2021;** 9Dula J, Mulhanga A, Nhanombe A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451953>
 126. **Changing Attitudes toward the COVID-19 Vaccine among North Carolina Participants in the COVID-19 Community Research Partnership. *Vaccines* (Basel) 2021;** 9Enwezor CH, Peacock JE, Jr., Seals AL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452041>
 127. **An Outbreak of COVID-19 among mRNA-Vaccinated Nursing Home Residents. *Vaccines* (Basel) 2021;** 9Faggiano F, Rossi MA, Cena T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451984>
 128. **Analysis of Host Immunological Response of Adenovirus-Based COVID-19 Vaccines. *Vaccines* (Basel) 2021;** 9Farhang-Sardroodi S, Korosec CS, Gholami S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451985>
 129. **Health Education and Vaccination for the Construction of Inclusive Societies. *Vaccines* (Basel) 2021;** 9García-Toledano E, Palomares-Ruiz A, Cebrián-Martínez A, López-Parra E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451938>
 130. **Who Is Willing to Get Vaccinated? A Study into the Psychological, Socio-Demographic, and Cultural Determinants of COVID-19 Vaccination Intentions. *Vaccines* (Basel) 2021;** 9Giuliani M, Ichino A, Bonomi A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451935>
 131. **Risk Factors Associated with the Clinical Outcomes of COVID-19 and Its Variants in the Context of Cytokine Storm and Therapeutics/Vaccine Development Challenges. *Vaccines* (Basel) 2021;** 9Hanna J, Tipparaju P, Mulherkar T *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452063>

132. **Age- and Sex-Graded Data Evaluation of Vaccination Reactions after Initial Injection of the BNT162b2 mRNA Vaccine in a Local Vaccination Center in Germany.** *Vaccines (Basel)* 2021; 9Hoffmann MA, Wieler HJ, Enders P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452036>
133. **The Efficacy of COVID-19 Vaccines in Chronic Kidney Disease and Kidney Transplantation Patients: A Narrative Review.** *Vaccines (Basel)* 2021; 9Hou YC, Lu KC, Kuo KL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452010>
134. **Single-Dose Intranasal Administration of AdCOVID Elicits Systemic and Mucosal Immunity against SARS-CoV-2 and Fully Protects Mice from Lethal Challenge.** *Vaccines (Basel)* 2021; 9King RG, Silva-Sanchez A, Peel JN *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452006>
135. **The Relationship between US Adults' Misconceptions about COVID-19 Vaccines and Vaccination Preferences.** *Vaccines (Basel)* 2021; 9Kreps SE, Goldfarb JL, Brownstein JS, Kriner DL. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452025>
136. **Denial of Justification for Vaccination: Its Multiple Related Variables and Impacts on Intention to Get Vaccinated against COVID-19.** *Vaccines (Basel)* 2021; 9Lin YJ, Chou WJ, Chang YP, Yen CF. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451947>
137. **Severe COVID-19 by SARS-CoV-2 Lineage B.1.1.7 in Vaccinated Solid-Organ Transplant Recipients: New Preventive Strategies Needed to Protect Immunocompromised Patients.** *Vaccines (Basel)* 2021; 9Loconsole D, Stea ED, Sallustio A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451931>
138. **Usefulness of IVD Kits for the Assessment of SARS-CoV-2 Antibodies to Evaluate the Humoral Response to Vaccination.** *Vaccines (Basel)* 2021; 9Lukaszuk K, Kiewisz J, Rozanska K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451965>
139. **The Health Belief Model Predicts Intention to Receive the COVID-19 Vaccine in Saudi Arabia: Results from a Cross-Sectional Survey.** *Vaccines (Basel)* 2021; 9Mahmud I, Kabir R, Rahman MA *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451991>
140. **Correlates of COVID-19 Vaccine Hesitancy among a Community Sample of African Americans Living in the Southern United States.** *Vaccines (Basel)* 2021; 9Moore JX, Gilbert KL, Lively KL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452004>
141. **COVID-19 Vaccine Intention among Healthcare Workers in Saudi Arabia: A Cross-Sectional Survey.** *Vaccines (Basel)* 2021; 9Noushad M, Nassani MZ, Alsalhani AB *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451960>
142. **Predictors of COVID-19 Vaccine Intention among the Saudi Arabian Population: A Cross-Sectional Survey.** *Vaccines (Basel)* 2021; 9Noushad M, Nassani MZ, Koppolu P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452017>
143. **Propylthiouracil-Induced Antineutrophil Cytoplasmic Antibody-Associated Vasculitis after COVID-19 Vaccination.** *Vaccines (Basel)* 2021; 9Okuda S, Hirooka Y, Sugiyama M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451967>
144. **Assessing the Level and Determinants of COVID-19 Vaccine Confidence in Kenya.** *Vaccines (Basel)* 2021; 9Orangi S, Pinchoff J, Mwanga D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452061>
145. **Biopharmaceutics 4.0, Advanced Pre-Clinical Development of mRNA-Encoded Monoclonal Antibodies to Immunosuppressed Murine Models.** *Vaccines (Basel)*

- 2021; 9Ouranidis A, Choli-Papadopoulou T, Papachristou ET *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452015>
146. **COVID-19 Associated Rhino-Orbital Mucormycosis Complicated by Gangrenous and Bone Necrosis-A Case Report from Honduras.** Vaccines (Basel) 2021; 9Palou EY, Ramos MA, Cherenfant E *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451951>
147. **Adverse Effects on Work and Daily Life Interference among Healthcare Workers after the First and Second ChAdOx1 and BNT162b2 COVID-19 Vaccine Doses.** Vaccines (Basel) 2021; 9Park C, Sakong J, Jo S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452051>
148. **Probiotics as Adjuvants in Vaccine Strategy: Is There More Room for Improvement?** Vaccines (Basel) 2021; 9Peroni DG, Morelli L.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451936>
149. **"Vaccine Passports" May Backfire: Findings from a Cross-Sectional Study in the UK and Israel on Willingness to Get Vaccinated against COVID-19.** Vaccines (Basel) 2021; 9Porat T, Burnell R, Calvo RA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452027>
150. **Changes in Attitudes towards the COVID-19 Vaccine and the Willingness to Get Vaccinated among Adults in Poland: Analysis of Serial, Cross-Sectional, Representative Surveys, January-April 2021.** Vaccines (Basel) 2021; 9Raciborski F, Jankowski M, Gujski M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451957>
151. **Mandate or Not Mandate: Knowledge, Attitudes, and Practices of Italian Occupational Physicians towards SARS-CoV-2 Immunization at the Beginning of Vaccination Campaign.** Vaccines (Basel) 2021; 9Riccò M, Ferraro P, Peruzzi S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452014>
152. **Factors Affecting Hesitancy to mRNA and Viral Vector COVID-19 Vaccines among College Students in Italy.** Vaccines (Basel) 2021; 9Salerno L, Craxì L, Amodio E, Lo Coco G. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452052>
153. **Hesitant or Not Hesitant? A Systematic Review on Global COVID-19 Vaccine Acceptance in Different Populations.** Vaccines (Basel) 2021; 9Salomoni MG, Di Valerio Z, Gabrielli E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452000>
154. **Public Health Leadership in a VUCA World Environment: Lessons Learned during the Regional Emergency Rollout of SARS-CoV-2 Vaccinations in Heidelberg, Germany, during the COVID-19 Pandemic.** Vaccines (Basel) 2021; 9Schulze C, Welker A, Kühn A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452012>
155. **COVID-19 Vaccine Hesitancy in Poland-Multifactorial Impact Trajectories.** Vaccines (Basel) 2021; 9Sowa P, Kiszkiel Ł, Laskowski PP *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452001>
156. **The Credibility of Health Information Sources as Predictors of Attitudes toward Vaccination-The Results from a Longitudinal Study in Poland.** Vaccines (Basel) 2021; 9Stasiuk K, Polak M, Dolinski D, Maciuszek J.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452058>
157. **Motivation to COVID-19 Vaccination and Reasons for Hesitancy in Employees of a Czech Tertiary Care Hospital: A Cross-Sectional Survey.** Vaccines (Basel) 2021; 9Štěpánek L, Janošíková M, Nakládalová M *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451988>

158. **Effect of Professional and Extra-Professional Exposure on Seroprevalence of SARS-CoV-2 Infection among Healthcare Workers of the French Alps: A Multicentric Cross-Sectional Study.** Vaccines (Basel) 2021; 9Vitrat V, Maillard A, Raybaud A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451949>
159. **A Case of Acute Pulmonary Embolus after mRNA SARS-CoV-2 Immunization.** Vaccines (Basel) 2021; 9Wiest NE, Johns GS, Edwards E. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452028>
160. **Prevalence and Factors of the Performed or Scheduled COVID-19 Vaccination in a Chinese Adult General Population in Hong Kong.** Vaccines (Basel) 2021; 9Yu Y, Lau MMC, Jiang H, Lau JTF. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34451972>
161. **Moderna COVID-19 vaccine induced skin rash.** Vis J Emerg Med 2021; 25:101108Khalid M, Lipka O, Becker C. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34423142>

Women – pregnancy (46 articles)

1. **Parental and staff experiences of restricted parental presence on a Neonatal Intensive Care Unit during COVID-19.** Acta Paediatr 2021; Garfield H, Westgate B, Chaudhary R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34435377>
2. **Monoclonal antibody treatment of symptomatic COVID-19 in pregnancy: Initial report.** Am J Obstet Gynecol 2021; Hirshberg JS, Cooke E, Oakes MC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34453934>
3. **Placental histopathology after SARS-CoV-2 infection in pregnancy: a systematic review and meta-analysis.** Am J Obstet Gynecol MFM 2021:100468Girolamo RD, Khalil A, Alameddine S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425296>
4. **Pregnancy and birth outcomes after SARS-CoV-2 vaccination in pregnancy.** Am J Obstet Gynecol MFM 2021:100467Theiler RN, Wick M, Mehta R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34425297>
5. **Application of Telemedicine Video Visits in a Maternal Fetal Medicine Practice at the epicenter of the COVID 19 pandemic.** Am J Obstet Gynecol MFM 2021:100469Tozour JN, Bandremer S, Patberg E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34450341>
6. **COVID-19 Disease, Women's Predominant Non-Heparin Vaccine-Induced Thrombotic Thrombocytopenia and Kounis Syndrome: A Passepartout Cytokine Storm Interplay.** Biomedicines 2021; 9Kounis NG, Koniari I, de Gregorio C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34440163>
7. **Cytokine Storms in the Course of COVID-19 and Haemophagocytic Lymphohistiocytosis in Pregnant and Postpartum Women.** Biomolecules 2021; 11Obuchowska A, Standyło A, Obuchowska K *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34439868>
8. **Multiprofessional perinatal care in a pregnant patient with acute respiratory distress syndrome due to COVID-19.** BMC Pregnancy Childbirth 2021; 21:587Palmrich P, Roessler B, Wisgrill L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445988>
9. **Changes in pregnancy outcomes during the COVID-19 lockdown in Iran.** BMC Pregnancy Childbirth 2021; 21:577Ranjbar F, Allahqoli L, Ahmadi S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34420514>

10. **Indirect effects of COVID-19 on maternal, neonatal, child, sexual and reproductive health services in Kampala, Uganda.** *BMJ Glob Health* 2021; 6Burt JF, Ouma J, Lubyayi L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34452941>
11. **How many infants may have died in low-income and middle-income countries in 2020 due to the economic contraction accompanying the COVID-19 pandemic? Mortality projections based on forecasted declines in economic growth.** *BMJ Open* 2021; 11:e050551Shapira G, de Walque D, Friedman J. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34429282>
12. **Detection of SARS-CoV-2-Specific IgA in the Human Milk of COVID-19 Vaccinated Lactating Health Care Workers.** *Breastfeed. Med.* 2021; Valcarce V, Stafford LS, Neu J *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34427487>
13. **Possible Male Reproduction Complications after Coronavirus Pandemic.** *Cell J* 2021; 23:382-388Hezavehei M, Shokoohian B, Nasr-Esfahani MH *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34455712>
14. **Tocilizumab for coronavirus disease 2019 in pregnancy and lactation: a narrative review.** *Clin Microbiol Infect* 2021; Jorgensen SCJ, Lapinsky SE. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438068>
15. **The perspective of Canadian health care professionals on abortion service during the COVID-19 pandemic.** *Fam. Pract.* 2021; 38:i30-i36Ennis M, Wahl K, Jeong D *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448482>
16. **Case Report: Dilated Cardiomyopathy in a Newborn, a Potential Association With SARS-COV-2.** *Front Pediatr* 2021; 9:674300Azeka E, Arshad A, Martins C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422715>
17. **Intussusception in an Infant With SARS-CoV-2 Infection: A Case Report and a Review of the Literature.** *Front Pediatr* 2021; 9:693348Castellazzi ML, Corsello A, Cerrato L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34422721>
18. *Geburtshilfe Frauenheilkd.* 2021; 81.
19. **Coronavirus disease 2019 (COVID-19) and the risk of hypertensive disorders of pregnancy: a retrospective cohort study.** *Hypertens. Pregnancy* 2021;1-10Baracy M, Jr., Afzal F, Szpunar SM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34428127>
20. **COVID-19 Vaccine in Pregnant and Lactating Women: A Review of Existing Evidence and Practice Guidelines.** *Infect Dis Rep* 2021; 13:685-699Garg I, Shekhar R, Sheikh AB, Pal S. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34449637>
21. **Good practices in perinatal care and breastfeeding protection during the first wave of the COVID-19 pandemic: a national situation analysis among BFHI maternity hospitals in Spain.** *Int Breastfeed J* 2021; 16:66Muñoz-Amat B, Pallás-Alonso CR, Hernández-Aguilar MT. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454539>
22. **Induction of SARS-CoV-2-Specific IgG and IgA in Serum and Milk with Different SARS-CoV-2 Vaccines in Breastfeeding Women: A Cross-Sectional Study in Northern Spain.** *Int J Environ Res Public Health* 2021; 18Lechosa-Muñiz C, Paz-Zulueta M, Mendez-Legaza JM *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444579>
23. **Health-Related Quality of Life and Risk Factors among Chinese Women in Japan Following the COVID-19 Outbreak.** *Int J Environ Res Public Health* 2021; 18Luo Y, Sato Y. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34444494>
24. **Factors Affecting Breastfeeding Practices under Lockdown during the COVID-19 Pandemic in Thailand: A Cross-Sectional Survey.** *Int J Environ Res Public*

- Health 2021; 18Piankusol C, Sirikul W, Ongprasert K, Sivoj P.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34444479>
25. **The Impact of the COVID-19 Pandemic on Pregnant Women with Perinatal Anxiety Symptoms in Pakistan: A Qualitative Study.** Int J Environ Res Public Health 2021; 18Rauf N, Zulfiqar S, Mumtaz S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34443987>
 26. **Impact of COVID-19 on medical treatment patterns in gynecologic oncology: a MITO group survey.** Int. J. Gynecol. Cancer 2021; Cioffi R, Sabetta G, Rabaiotti E *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426526>
 27. **Assessment of antenatal anxiety, depression and obsessive-compulsive disorder in pregnant women in the COVID-19 era.** Ir. J. Psychol. Med. 2021:1-7Hinds C, Lindow SW, Abdelrahman M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433505>
 28. **Gender-Specific Changes in Life Satisfaction After the COVID-19-Related Lockdown in Dutch Adolescents: A Longitudinal Study.** J. Adolesc. Health 2021; van der Laan SEI, Finkenauer C, Lenters VC *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34446346>
 29. **Influence of the Human Development Index on the Maternal-Perinatal Morbidity and Mortality of Pregnant Women with SARS-CoV-2 Infection: Importance for Personalized Medical Care.** J Clin Med 2021; 10Cuñarro-López Y, Larroca SG, Pintado-Recarte P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34441928>
 30. **COVID-19 in Pregnancy-Perinatal Outcomes and Vertical Transmission Preventative Strategies, When Considering More Transmissible SARS-CoV-2 Variants.** J Clin Med 2021; 10Januszewski M, Ziuzia-Januszewska L, Santor-Zaczynska M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34442020>
 31. **Experiences of Quality Perinatal Care During the US COVID-19 Pandemic.** J Midwifery Womens Health 2021; Basile Ibrahim B, Kennedy HP, Combellick J.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34432368>
 32. **Surgical Outcomes in Benign Gynecologic Surgery Patients during the COVID-19 Pandemic (SOCOVID study).** J Minim Invasive Gynecol 2021; Kho RM, Chang OH, Hare A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34438045>
 33. **Perturbed nuptiality, delayed fertility: childbirth effects of Covid19.** J Popul Res (Canberra) 2021:1-9Mughal M, Javed R. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34426727>
 34. **Changes in Life Circumstances and Mental Health Symptoms during the COVID-19 Pandemic among Midlife Women with Elevated Risk for Cardiovascular Disease.** J. Women Aging 2021:1-12Brown MM, Arigo D.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34432597>
 35. **Breastfeeding in Mothers with COVID-19: Insights from Laboratory Tests and Follow-Up from Early Outbreak of the Pandemic in China.** J Womens Health (Larchmt) 2021; Luo QQ, Xia L, Yao DJ *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34448599>
 36. **Exploring Pregnancy Outcomes Associated with SARS-CoV-2 Infection.** Medicina (Kaunas) 2021; 57Timircan M, Bratosin F, Vidican I *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34441002>
 37. **Clinical characteristics and sociodemographic factors associated with COVID-19 infection in pregnant women in a maternal and children's public hospital.**

- Medwave 2021; 21:e8442Rodriguez Huaman Y, Contreras PJ, Lozada-Urbano M.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428196>
38. **Sex-tailored pharmacology and COVID-19: next steps towards appropriateness and health equity.** Pharmacol. Res. 2021:105848Spini A, Giudice V, Brancaleone V *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=34454035>
39. **Genetic predisposition to COVID-19 may increase the risk of hypertension disorders in pregnancy: A two-sample Mendelian randomization study.** Pregnancy Hypertens. 2021; 26:17-23Tan JS, Liu NN, Guo TT *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34428710>
40. **COVID-19 and fertility-at the crossroads of autoimmunity and thrombosis.** Rheumatol. Int. 2021:1-10Tariq J, Chatterjee T, Andreoli L, Gupta L.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34455463>
41. **Do SARS-CoV-2 Infection (COVID-19) and the Medications Administered for Its Treatment Impair Testicular Functions?** Urol. Int. 2021:1-5Gul A, Zengin S, Dundar G, Ozturk M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34433173>
42. **Sex Disparities in Efficacy in COVID-19 Vaccines: A Systematic Review and Meta-Analysis.** Vaccines (Basel) 2021; 9Bignucolo A, Scarabel L, Mezzalana S *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34451950>
43. **Efficient Maternal to Neonate Transfer of Neutralizing Antibodies after SARS-CoV-2 Vaccination with BNT162b2: A Case-Report and Discussion of the Literature.** Vaccines (Basel) 2021; 9Douxflis J, Gillot C, De Gottal É *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452032>
44. **Age- and Sex-Graded Data Evaluation of Vaccination Reactions after Initial Injection of the BNT162b2 mRNA Vaccine in a Local Vaccination Center in Germany.** Vaccines (Basel) 2021; 9Hoffmann MA, Wieler HJ, Enders P *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34452036>
45. **Is there an association of lifestyle habits, anxiety, and depression between incontinent and continent women during COVID-19 pandemic?** Women Health 2021:1-8da Silva JB, Padilha JF, Rocha Rodrigues AP *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=34433387>
46. **Gender differences in the reaction to COVID-19.** Women Health 2021:1-11Laufer A, Shechory Bitton M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=34445941>

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