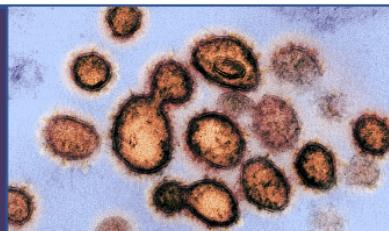


Covid-19

Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

Update April 05 - April 11 - 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 14 2022

1076 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 dashboard](#)

[Country Guidance](#)

[Travel restriction](#)

[Covid Counter](#)

[Covid forecasts](#)

[CDC](#)

[AHA](#)

[ESC](#)

[EMEA](#)

[Evidence EPPI](#)

[Wikipedia](#)

[Cardionerds - COVID-19](#)

[Genomic epidemiology](#)

[Oxygenation Ventilation toolkit](#)

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

[COVID-19 Projections tracker](#)

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[The Lancet](#)

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[LitCovid NIH-NLM](#)

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

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

[Retracted papers](#)

[AAN - Neurology resources](#)
[COVID-19 resources \(Harvard\)](#)
[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 \(Medscap\)](#)

[COVID-19 risk tools - Apps](#)
[Web app for SARS-CoV2 mutations](#)

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 - \(plasma exchange & convalescent plasma trial\)](#)

Media digest

[New York Times - Corona update](#)

North Korea says 6 are dead as Covid-19 spreads ‘explosively.’
The world tries to move beyond Covid. China may stand in the way.
At Biden’s Summit, Other Nations Pledge Billions to Bolster Pandemic Response
Closer to a Vaccine for Young Kids
The E.U. will no longer recommend that masks be required for air travel.
Shanghai’s Cases Fall, but China’s Restrictions Tighten

Washington Post - Corona update

Stop dismissing the risk of long covid
In Shanghai’s covid lockdown, the unimaginable is becoming the norm
How to ask a seatmate to mask: The new etiquette for maskless flights
What we can learn from vaccinated covid deaths
WHO chief calls for end of ‘zero covid’ in China, so Beijing censors him

Guardian - Corona update

Half of Covid-hospitalised still symptomatic two years on, study finds
Trump officials and meat industry blocked life-saving Covid controls
Lifting zero-Covid policies in China could risk 1.6m deaths, says study
New Zealand to fully reopen borders for first time since Covid pandemic started
Fourth Covid jab can give higher immunity than initial booster, study finds

Key Articles

- 1. Aspirin in COVID-19: Pros and Cons.** Front. Pharmacol. 2022; 13:849628 Zareef R, Diab M, Al Saleh T et al.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35370686>
Aspirin, a cheap and universally available anti-inflammatory, and anti-thrombotic drug, targets numerous molecular pathways intrinsically involved in COVID-19 infections and complications. This review provides a comprehensive update on our current understanding and conflicting clinical evidence from observational studies. The notion of repurposing aspirin for COVID-19 patients is attractive but needs to be confirmed by multi-center placebo-controlled high-quality randomized clinical trials

- 2. Myocarditis and Cardiac Complications Associated With COVID-19 and mRNA Vaccination: A Pragmatic Narrative Review to Guide Clinical Practice.** Heart Lung Circ. 2022; Holland DJ, Blazak PL, Martin J et al.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35398005>
Studies promoting successful treatment strategies based on observational data of very small RCTs were prone to error and bias. Citation bias reinforced wrong conclusions and were amplified by mainstream and social media. Large RCTs (RECOVERY and SOLIDARITY) proved no benefits of treatments such as lopinavir/ritonavir, hydroxychloroquine, azithromycin, remdesivir, convalescent plasma, colchicine, and interferon. Spurious effectiveness claims by observational studies and small RCTs need to be viewed critically by healthcare professionals.

- 3. High-cited favorable studies for COVID-19 treatments ineffective in large trials.** J. Clin. Epidemiol. 2022; 148:1-9Ioannidis JPA.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35398190>
Myocarditis is a rare complication associated with COVID-19 infections (11/100 000) and mRNA vaccination (2.7/100 000). In this comprehensive review, the authors discuss the clinical course of this cardiac complication, in most cases with a mild and self-limiting disease expression. Based on an amalgamation of national and international guidelines, guidance on cardiac investigations, monitoring, and treatment are suggested.
- 4. SARS-CoV-2 -specific immune responses in boosted vaccine recipients with breakthrough infections during the Omicron variant surge.** JCI Insight 2022; Woldemeskel BA, Garliss CC, Aytenfisu TY *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35389888>
- 5. Clinical Characteristics, Transmissibility, Pathogenicity, Susceptible Populations, and Re-infectivity of Prominent COVID-19 Variants.** Aging Dis 2022; 13:402-422Yang Z, Zhang S, Tang YP *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35371608>
- 6. The statistical evidence missing from the Swedish decision-making of COVID-19 strategy during the early period: A longitudinal observational analysis.** SSM Popul Health 2022; 18:101083Wang X, Wallentin FY, Yin L.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35386859>
- 7. Cerebral venous sinus thrombosis in the setting of COVID-19 vaccination: a systematic review and meta-analysis.** J. Neurol. 2022;1-7Palaiodimou L, Stefanou MI, de Sousa DA *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35394172>
- 8. Infection fatality rate and infection attack rate of COVID-19 in South American countries.** Infect Dis Poverty 2022; 11:40Musa SS, Tariq A, Yuan L *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35382879>
- 9. Clinical manifestations, treatment options, and comorbidities in COVID-19 relapse patients: A systematic review.** J. Clin. Lab. Anal. 2022:e24402Koupaei M, Mohamadi MH, Yashmi I *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35396748>
- 10. The early impact of vaccination against SARS-CoV-2 in Region Stockholm, Sweden.** Vaccine 2022; 40:2823-2827Isitt C, Sjöholm D, Hergens MP *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35393149>
- 11. Immunogenicity and clinical features relating to BNT162b2 messenger RNA COVID-19 vaccine, Ad26.COV2.S and ChAdOx1 adenoviral vector COVID-19 vaccines: a systematic review of non-interventional studies.** Futur J Pharm Sci 2022; 8:20Iheanacho CO, Eze UIH.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35368622>

- 12. Review of COVID-19 testing and diagnostic methods.** Talanta 2022; 244:123409Filchakova O, Dossym D, Ilyas A *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35390680>
- 13. Coronavirus Disease 2019 and Hypertension: How Anti-Hypertensive Drugs Affect COVID-19 Medications and Vice Versa.** Curr Drug Saf 2022; Doostkam A, Hosseinpour A, Iravani K *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35382727>
- 14. One year later: What Have We Learned About the Allergenicity and Adverse Reactions Associated with the SARS-CoV-2 vaccines.** Ann. Allergy. Asthma. Immunol. 2022; Copaesu AM, Duque JSR, Phillips EJ.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35390476>
- 15. Description of Symptoms Caused by the Infection of the SARS-CoV-2 B.1.621 (Mu) Variant in Patients With Complete CoronaVac Vaccination Scheme: First Case Report From Santiago of Chile.** Front Public Health 2022; 10:797569Barrera-Avalos C, Luraschi R, Acuña-Castillo C *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35387187>
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Omicron (12 articles)

- 1. Clinical Characteristics, Transmissibility, Pathogenicity, Susceptible Populations, and Re-infectivity of Prominent COVID-19 Variants.** Aging Dis 2022; 13:402-422Yang Z, Zhang S, Tang YP *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35371608>
- 2. Detection of SARS-CoV-2 Variants Mu, Beta, Gamma, Lambda, Delta, Alpha, and Omicron in Wastewater Settled Solids Using Mutation-Specific Assays Is Associated with Regional Detection of Variants in Clinical Samples.** Appl. Environ. Microbiol. 2022; 88:e0004522Wolfe M, Hughes B, Duong D *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35380449>
- 3. Investigation into Information Release of Chinese Government and Departments on COVID-19.** Data Inf Manag 2020; 4:209-235Lu Q, Liu T, Li C *et al.*
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- 4. Boosting of serum neutralizing activity against the Omicron variant among recovered COVID-19 patients by BNT162b2 and CoronaVac vaccines.** EBioMedicine 2022; 79:103986Lu L, Chen LL, Zhang RR *et al.*
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- 5. Secondary Attack Rate, Transmission and Incubation Periods, and Serial Interval of SARS-CoV-2 Omicron Variant, Spain.** Emerg Infect Dis 2022; 28Del Águila-Mejía J, Wallmann R, Calvo-Montes J *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35393009>
- 6. Introduction and Rapid Spread of SARS-CoV-2 Omicron Variant and Dynamics of BA.1 and BA.1.1 Sublineages, Finland, December 2021.** Emerg Infect Dis 2022; 28Vauhkonen H, Nguyen PT, Kant R *et al.*
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35378057>

- 7. Description of Symptoms Caused by the Infection of the SARS-CoV-2 B.1.621 (Mu) Variant in Patients With Complete CoronaVac Vaccination Scheme: First Case Report From Santiago of Chile.** Front Public Health 2022; 10:797569Barrera-Avalos C, Luraschi R, Acuña-Castillo C *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35387187>
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- 9. SARS-CoV-2 -specific immune responses in boosted vaccine recipients with breakthrough infections during the Omicron variant surge.** JCI Insight 2022; Woldemeskel BA, Garliss CC, Aytenfisu TY *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35389888>
- 10. Melatonin and REGN-CoV2 combination as a vaccine adjuvant for Omicron variant of SARS-CoV-2.** Mol. Biol. Rep. 2022;1-8Haskoglu IC, Erdag E, Sayiner S *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35389130>
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- 12. Detection of the Omicron variant of SARS-CoV-2 in international travelers returning to Venezuela.** Travel Med Infect Dis 2022; 48:102326Jaspe RC, Sulbaran Y, Loureiro CL *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35395405>

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- 1. ACE2 and COVID-19 Susceptibility and Severity.** Aging Dis 2022; 13:360-372Zheng M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=35371596>
- 2. Peptide candidates for the development of therapeutics and vaccines against β-coronavirus infection.** Bioengineered 2022; 13:9435-9454Chourasia R, Padhi S, Phukon LC *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35387556>
- 3. Engineering organ-on-a-chip systems to model viral infections.** Biofabrication 2022; Shahabipour F, Satta S, Mahmoodi M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35390777>
- 4. SARS-CoV-2 and human retroelements: a case for molecular mimicry?** BMC Genom Data 2022; 23:27Koch BF. <http://www.ncbi.nlm.nih.gov/pubmed/?term=35395708>
- 5. Predicted coronavirus Nsp5 protease cleavage sites in the human proteome.** BMC Genom Data 2022; 23:25Scott BM, Lacasse V, Blom DG *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35379171>
- 6. Spike protein of SARS-CoV-2 variants: a brief review and practical implications.** Braz. J. Microbiol. 2022;1-25Candido KL, Eich CR, de Fariña LO *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35397075>
- 7. Impairment of SARS-CoV-2 spike glycoprotein maturation and fusion activity by nitazoxanide: an effect independent of spike variants emergence.** Cell. Mol. Life Sci. 2022; 79:227Riccio A, Santopolo S, Rossi A *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35391601>
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- 9. Phytochemicals-based targeting RdRp and main protease of SARS-CoV-2 using docking and steered molecular dynamic simulation: A promising therapeutic approach for Tackling COVID-19.** *Comput. Biol. Med.* 2022; 145:105468Parihar A, Sonia ZF, Akter F *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35390745>
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- 11. Molecular Docking as a Potential Approach in Repurposing Drugs Against COVID-19: a Systematic Review and Novel Pharmacophore Models.** *Curr. Pharmacol. Rep.* 2022;1-15Fadlalla M, Ahmed M, Ali M *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35381996>
- 12. Corrigendum: poreCov - An Easy to Use, Fast, and Robust Workflow for SARS CoV-2 Genome Reconstruction via Nanopore Sequencing.** *Front. Genet.* 2022; 13:875644Brandt C, Krautwurst S, Spott R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35368706>
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- 14. Comparison of Lung-Homing Receptor Expression and Activation Profiles on NK Cell and T Cell Subsets in COVID-19 and Influenza.** *Front. Immunol.* 2022; 13:834862Brownlie D, Rødahl I, Varnaite R *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35371005>
- 15. Poxvirus MVA Expressing SARS-CoV-2 S Protein Induces Robust Immunity and Protects Rhesus Macaques From SARS-CoV-2.** *Front. Immunol.* 2022; 13:845887Mooij P, García-Arriaza J, Pérez P *et al.* <http://www.ncbi.nlm.nih.gov/pubmed/?term=35371043>
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<http://www.ncbi.nlm.nih.gov/pubmed/?term=35369686>
2. **Possible Cases of SARS-CoV-2 Reinfection In Pekanbaru, Indonesia.** Acta Med Indones 2022; 54:107-113Kemal RA, Anggraini D.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=35398831>
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4. **ACE2 and COVID-19 Susceptibility and Severity.** Aging Dis 2022; 13:360-372Zheng M. <http://www.ncbi.nlm.nih.gov/pubmed/?term=35371596>
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