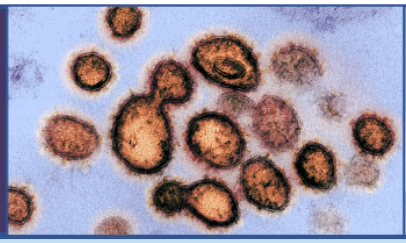
Covid-19
Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

Update November 22 - November 28, 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 47 2021
1466 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 forcasts
CDC
AHA
ESC
EMEA
Evidence EPPI
Wikipedia
Cardionerds - **COVID-19**
Genomic epidemiology
Oxygenation Ventilation toolkit
German (ICU) bed capacity

Cochrane
BMJ
The Lancet
New England Journal of Medicine
JAMA
Cell
Science
Oxford Universtiy Press
Cambridge Univeristy Press
Springer Nature
Elsevier
Wiley
PLOS
LitCovid NIH-NLM
SSRN (Pre-prints)
COVID reference (Steinhauser Verlag)

COVID-19 Projections tracker

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)

Retracted papers

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

British studies warn of Omicron's speed, and one notes the need for boosters
C.D.C. vaccination data may overestimate first doses and underestimate boosters.
La Scala postpones its ballet season premiere after finding over a dozen Covid cases in its ranks
Signs of the Omicron variant are being found in California wastewater systems
The prospect of Omicron's toll may worsen already growing nursing shortages, an international group warns
The first data on the Omicron variant starts to roll in: The week in Covid news
Vaccine mandates rekindle a debate over civil liberties in Europe

Washington Post - Corona update

Most Americans support religious exemptions to vaccination but say they're overused
Warning of vaccine inequality, WHO avoids endorsing boosters for general public
The massive gap between Republicans and Democrats on vaccinating kids
New coronavirus vaccine may eventually be needed for omicron variant
What to know about the omicron variant of the coronavirus
Omicron coronavirus variant three times more likely to cause reinfection than delta

Guardian - Corona update

UK clinics defy guidance and give under-40s their Covid booster jabs now
Tens of thousands protest against compulsory Covid jabs in Austria
Omicron could cause 75,000 deaths in England by end of April, say scientists
Why uncontrolled HIV may be behind the emergence of Omicron
'More cautious' China shifts Africa approach from debt to vaccine diplomacy

Key Articles

1. Tiyo BT, Schmitz GJH, Ortega MM *et al.* **What Happens to the Immune System after Vaccination or Recovery from COVID-19?** Life (Basel) 2021; 11. http://www.ncbi.nlm.nih.gov/pubmed/?term=34833028
   How does our immune response differ if activated by an infection of SARS-CoV-2 or a vaccine? This review discusses in great detail the innate and adaptive effects of the immune response, what we can expect from the different types of vaccines, and how the most robust protection seems to be triggered by virus exposure plus vaccination.

2. Riera-Mestre A, Jara-Palomares L, Lecumberri R *et al.* **PICO Questions and DELPHI Methodology for the Management of Venous Thromboembolism Associated with COVID-19.** Viruses 2021; 13. http://www.ncbi.nlm.nih.gov/pubmed/?term=34834935
   Strategies for preventing thrombotic complications in COVID-19 patients are controversial, and recommendations have been contradictory. This DELPHI strategy included six national experts that formulated seven PICO (Patient, Intervention, Comparison, Outcomes) questions. Furthermore, seven experts answered the questions. Subsequently, the first group of experts discussed the

answers of group 2, and finally, answers were formulated with added comments from each member.

3. Li Z, Liu X, Liu M *et al.* **The Effect of the COVID-19 Vaccine on Daily Cases and Deaths Based on Global Vaccine Data.** Vaccines (Basel) 2021; 9. http://www.ncbi.nlm.nih.gov/pubmed/?term=34835259
   What is the impact of COVID-19 vaccinations on mortality and daily confirmed cases? The authors of this study explored the impact of the vaccination programs in each country (N=187) globally. They calculated that for every 10 000 fully vaccinated persons, daily cases would be reduced by 24.43% (18.89-29.54) and daily increasing deaths by 13.33% (3.81-21.89). Underlining the efficacy of vaccination and the urgent need to accelerate vaccination roll-out as well as fair distribution.

4. Valente Silva B, Plácido R, Jorge C *et al.* **Prognostic Accuracy of the Modified CHA2DS2-VASc Score in COVID-19 Patients Admitted to the Emergency Department Due to Clinical Worsening.** Acta Med Port 2021. http://www.ncbi.nlm.nih.gov/pubmed/?term=34837357

5. Souza Junior DR, Silva ARM, Rosa-Fernandes L *et al.* **HDL proteome remodeling associates with COVID-19 severity.** J. Clin. Lipidol. 2021. http://www.ncbi.nlm.nih.gov/pubmed/?term=34802985

6. Simon D, Tascilar K, Fagni F *et al.* **Efficacy and safety of SARS-CoV-2 revaccination in non-responders with immune-mediated inflammatory disease.** Ann. Rheum. Dis. 2021. http://www.ncbi.nlm.nih.gov/pubmed/?term=34819271

7. Shaw D. **The Side Effects of Not Being Vaccinated: Individual Risk and Vaccine Hesitancy Nationalism.** J. Bioeth. Inq. 2021:1-4. http://www.ncbi.nlm.nih.gov/pubmed/?term=34817743

8. Shachor-Meyouhas Y, Hussein K, Dabaja-Younis H *et al.* **Immunogenicity trends one and three months after second BNT162B2 vaccination among healthcare workers in Israel.** Clin Microbiol Infect 2021. http://www.ncbi.nlm.nih.gov/pubmed/?term=34838782

9. Özkan Oktay E, Tuncay S, Kaman T *et al.* **An update comprehensive review on the status of COVID-19: vaccines, drugs, variants and neurological symptoms.** Turk. J. Biol. 2021; 45:342-357. http://www.ncbi.nlm.nih.gov/pubmed/?term=34803439

10. Meslé MM, Brown J, Mook P *et al.* **Estimated number of deaths directly averted in people 60 years and older as a result of COVID-19 vaccination in the WHO European Region, December 2020 to November 2021.** Euro Surveill 2021; 26. http://www.ncbi.nlm.nih.gov/pubmed/?term=34823641

11. Liang CK, Chen LK. **National health care quality and COVID-19 case fatality rate: International comparisons of top 50 countries.** Arch.

Gerontol. Geriatr. 2022; 98:104587. http://www.ncbi.nlm.nih.gov/pubmed/?term=34839063

12. Lee CC, Hsieh CC, Ko WC. **Molnupiravir-A Novel Oral Anti-SARS-CoV-2 Agent.** Antibiotics (Basel) 2021; 10. http://www.ncbi.nlm.nih.gov/pubmed/?term=34827232

13. Ho JS, Sia CH, Ngiam JN *et al.* **A review of COVID-19 vaccination and the reported cardiac manifestations.** Singapore Med J 2021. http://www.ncbi.nlm.nih.gov/pubmed/?term=34808708

14. El-Arif G, Farhat A, Khazaal S *et al.* **The Renin-Angiotensin System: A Key Role in SARS-CoV-2-Induced COVID-19.** Molecules 2021; 26. http://www.ncbi.nlm.nih.gov/pubmed/?term=34834033

15. Demers-Mathieu V, Hakansson AP, Hall S *et al.* **Functional Antibodies Against SARS-CoV-2 Receptor Binding Domain Variants with Mutations N501Y or E484K in Human Milk from COVID-19-Vaccinated, -Recovered, and -Unvaccinated Women.** Breastfeed. Med. 2021. http://www.ncbi.nlm.nih.gov/pubmed/?term=34809492

Basic Science (91 articles)

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2. **Antioxidant Activity of Citrus Limonoids and Investigation of Their Virucidal Potential against SARS-CoV-2 in Cellular Models.** Antioxidants (Basel) 2021; 10Magurano F, Sucameli M, Picone P *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34829666
3. **Hydroxychloroquine and azithromycin used alone or combined are not effective against SARS-CoV-2 ex vivo and in a hamster model.** Antiviral Res 2021; 197:105212Cochin M, Touret F, Driouich JS *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34838583
4. **Molecular Docking and ADMET Prediction of Natural Compounds towards SARS Spike Glycoprotein-Human Angiotensin-Converting Enzyme 2 and SARS-CoV-2 Main Protease.** Arch Razi Inst 2021; 76:453-459Oso BJ, Olaoye IF, Omeike SO. http://www.ncbi.nlm.nih.gov/pubmed/?term=34824739
5. **The SARS-CoV-2 origin dilemma: Zoonotic transfer or laboratory leak?** Bioessays 2021:e2100189Ruiz-Medina BE, Varela-Ramirez A, Kirken RA, Robles-Escajeda E. http://www.ncbi.nlm.nih.gov/pubmed/?term=34812505
6. **Nanobiotechnology in combating CoVid-19.** Bioinformation 2020; 16:828-830Ganapathy D, Shanmugam R, Thangavelu L. http://www.ncbi.nlm.nih.gov/pubmed/?term=34803255

7. **Emerging genetic diversity of SARS-CoV-2 RNA dependent RNA polymerase (RdRp) alters its B-cell epitopes.** Biologicals 2021; Kumar S, Kumari K, Azad GK. http://www.ncbi.nlm.nih.gov/pubmed/?term=34802866
8. **Porphyrin Molecules Decorated on Metal-Organic Frameworks for Multi-Functional Biomedical Applications.** Biomolecules 2021; 11Rabiee N, Rabiee M, Sojdeh S *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34827712
9. **Nucleocapsid mutations R203K/G204R increase the infectivity, fitness, and virulence of SARS-CoV-2.** Cell Host Microbe 2021; Wu H, Xing N, Meng K *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34822776
10. **Computational prediction of the potential target of SARS-CoV-2 inhibitor plitidepsin via molecular docking, dynamic simulations and MM-PBSA calculations.** Chem. Biodivers. 2021; El Hassab M, Hemeda L, Elsayed Z *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34813168
11. **Two Cases of COVID-19 with Persistently Positive SARS-CoV-2-Specific IgM During One-Year Follow-Up - Sichuan Province, China, February 2021.** China CDC Wkly 2021; 3:983-984Zhao B, Chen Y, Yue Y *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34804632
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