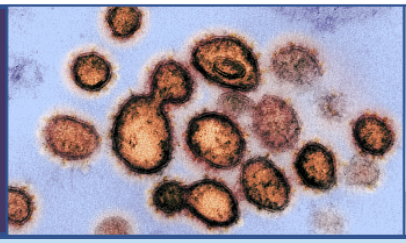
# Covid-19 Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

**Update November 1 - November 7, 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 44 2021

**889 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

Concerns Grow in Europe as Austria Enters Lockdown
About 90 percent of federal workers will meet Biden's vaccination deadline.
Kenya will impose widespread restrictions on the unvaccinated starting next month.
A cheap vaccine to protect the old: How and why it might work.
A study finds that stillbirths are higher in pregnant women with Covid.
Pfizer Will Allow Its Covid Pill to Be Made and Sold Cheaply in Poor Countries
As Germans seek booster shots, supplies of the Pfizer vaccine dwindle.

## Washington Post - Corona update

The most pernicious anti-vaccine talking point
Pfizer's coronavirus vaccine trial data confirms high efficacy, long-term protection in adolescents
Marine Corps compliance with vaccine mandate on course to be military's worstEastern Europe, facing coronavirus Squeezed by mandates and restrictions, Europe's anti-vaxxers rebel
A 20-year-old diagnosed with long-term effects of the coronavirus speaks out
50 percent of people who survive covid-19 face lingering symptoms, study finds

## Guardian - Corona update

Austria is showing that vaccine mandates are no longer unthinkable
Violence in Belgium and Netherlands as Covid protests erupt across Europe
Fauci warns time running short to prevent 'dangerous' Covid surge in US
ICU is full of the unvaccinated – my patience with them is wearing thin
Is Delta the last Covid 'super variant'?

# Key Articles

1. **Myocarditis Following COVID-19 mRNA Vaccine: A Case Series and Incidence Rate Determination.** Clin Infect Dis 2021; Perez Y, Levy ER, Joshi AY *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34734240
   Antivax forums often promote that vaccine-triggered myocarditis is why vaccination should be avoided at all costs. The Mayo clinic COVID-19 vaccine registry observed an incidence RR of 55.35/100 000 patient-years, vs. 13.25/100 000 patient-years in the control population. In both populations, males were more frequently affected compared to females, but this difference was not statistically significant. In the vaccinated population, most cases occurred <3 days after the second injection (1–13-day range). All cases were mild, and none of the patients died.

2. **Systematic review of the safety, immunogenicity, and effectiveness of COVID-19 vaccines in pregnant and lactating individuals and their infants.** Int J Gynaecol Obstet 2021; Fu W, Sivajohan B, McClymont E *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34735722
   This meta-analysis provides essential insights into the safety and efficacy of

COVID-19 vaccination in pregnant women. Included in the final analysis were 23 studies. The immune response showed the expected increase in humoral and functional immunity. No increased risk for neonatal or obstetric complications was noted in vaccinated pregnant women. Vaccine-related adverse effects were no different when compared to non-pregnant women.

3. **Household transmission of COVID-19 cases associated with SARS-CoV-2 delta variant (B.1.617.2): national case-control study.** Lancet Reg Health Eur 2021:100252Allen H, Vusirikala A, Flannagan J *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34729548
The current surge of COVID-19 cases is attributed to the delta variant of the SARS-CoV-2 virus. In this UK study, using matched case-controls. The 5,976 gnomically sequenced index cases in household clusters were matched to 11,952 sporadic index cases (1:2). The odd ratio of household transmission was 1.7 (1.48-1.95) for the delta variant compared to the alpha variant.

4. **Hypercholesterolemia and COVID-19: Statins for Lowering the Risk of Venous Thromboembolism.** Front Cardiovasc Med 2021; 8:711923Vuorio A, Lassila R, Kovanen PT. http://www.ncbi.nlm.nih.gov/pubmed/?term=34722654

5. **COVID-19 and Dementia.** Ann Neurosci 2021; 28:101-104Sharma SK. http://www.ncbi.nlm.nih.gov/pubmed/?term=34733061

6. **Immunogenicity of standard and extended dosing intervals of BNT162b2 mRNA vaccine.** Cell 2021; 184:5699-5714.e5611Payne RP, Longet S, Austin JA *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34735795

7. **COVID-19 in pregnant women and children: Insights on clinical manifestations, complexities, and pathogenesis.** Int J Gynaecol Obstet 2021; Meyyazhagan A, Pushparaj K, Balasubramanian B *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34735717

8. **High infectious disease burden as a basis for the observed high frequency of asymptomatic SARS-CoV-2 infections in sub-Saharan Africa.** AAS Open Res 2021; 4:2Kusi KA, Frimpong A, Partey FD *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34729457

9. **Comparing SARS-CoV-2 case rates between pupils, teachers and the general population: results from Germany.** Eur. J. Public Health 2021; Köstner C, Letzel S, Eggert V *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34741503

10. **COVID-19 and Indirect Liver Injury: A Narrative Synthesis of the Evidence.** J Clin Transl Hepatol 2021; 9:760-768Idalsoaga F, Ayares G, Arab JP, Díaz LA. http://www.ncbi.nlm.nih.gov/pubmed/?term=34722191

11. **The Epidemic of COVID-19-Related Erectile Dysfunction: A Scoping Review and Health Care Perspective.** Sex Med Rev 2021; Hsieh TC, Edwards NC, Bhattacharyya SK *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?

term=34732316

12. **COVID-19 follow-up: Chest X-ray findings with clinical and radiological relationship three months after recovery.** Radiography (Lond) 2021; Fogante M, Cavagna E, Rinaldi G. http://www.ncbi.nlm.nih.gov/pubmed/?term=34728138

13. **Optimal levels of vaccination to reduce COVID-19 infected individuals and deaths: A global analysis.** Environ. Res. 2021:112314Coccia M. http://www.ncbi.nlm.nih.gov/pubmed/?term=34736923

14. **Effects of COVID-19 and mRNA vaccines on human fertility.** Hum. Reprod. 2021; Chen F, Zhu S, Dai Z *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34734259

15. **Letter from Israel.** Respirology 2021; Berkman N. http://www.ncbi.nlm.nih.gov/pubmed/?term=34725895

## Basic Science (35 articles)

1. **Recent developments in the medicinal chemistry of single boron atom-containing Recent developments in the medicinal chemistry of single boron atom-containing compounds.** Acta Pharm Sin B 2021; 11:3035-3059Song S, Gao P, Sun L *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34729302
2. **Metabolomics Signatures of SARS-CoV-2 Infection.** Adv. Exp. Med. Biol. 2021; Arjmand B, Alavi-Moghadam S, Parhizkar-Roudsari P *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34735713
3. **Molecular Mechanisms of SARS-CoV-2/COVID-19 Pathogenicity on the Central Nervous System: Bridging Experimental Probes to Clinical Evidence and Therapeutic Interventions.** Adv. Exp. Med. Biol. 2021; Groppa SA, Ciolac D, Duarte C *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34735712
4. **New tale on LianHuaQingWen: IL6R/IL6/IL6ST complex is a potential target for COVID-19 treatment.** Aging (Albany NY) 2021; 13Tianyu Z, Xiaoli C, Yaru W *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34731090
5. **Application of Reverse Docking in the Research of Small Molecule Drugs and Traditional Chinese Medicine.** Biol. Pharm. Bull. 2021; Wang H, He H, Zhang T, Jiang J. http://www.ncbi.nlm.nih.gov/pubmed/?term=34719576
6. **Cocktail polysaccharides isolated from Ecklonia kurome against the SARS-CoV-2 infection.** Carbohydr Polym 2022; 275:118779Zhang S, Pei R, Li M *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34742404
7. **Mammalian hybrid pre-autophagosomal structure HyPAS generates autophagosomes.** Cell 2021; Kumar S, Javed R, Mudd M *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34741801
8. **A pathogen-like antigen based vaccine confers immune protection against SARS-CoV-2 in non-human primates.** Cell Rep Med 2021:100448Guo C, Peng Y, Lin L *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34723223

9. **Expression profile of SARS-CoV-2 cellular entry proteins in normal oral mucosa and oral squamous cell carcinoma.** Clin Exp Dent Res 2021; Sapkota D, Sharma S, Søland TM *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34726347
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12. **Using in vivo animal models for studying SARS-CoV-2.** Expert Opin Drug Discov 2021:1-17Da Costa CBP, Cruz ACM, Penha JCQ *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34727803
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28. **Nasopharyngeal Expression of Angiotensin-Converting Enzyme 2 and Transmembrane Serine Protease 2 in Children within SARS-CoV-2-Infected Family Clusters.** Microbiol Spectr 2021; 9:e0078321Hasan MR, Ahmad MN, Dargham SR *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34730438
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34. **RCSB Protein Data Bank resources for structure-facilitated design of mRNA vaccines for existing and emerging viral pathogens.** Structure 2021; Goodsell DS, Burley SK. http://www.ncbi.nlm.nih.gov/pubmed/?term=34739839
35. **Bioinformatics analyses reveal cell-barrier junction modulations in lung epithelial cells on SARS-CoV-2 infection.** Tissue Barriers 2021:2000300Adil MS, Khulood D, Narayanan SP, Somanath PR. http://www.ncbi.nlm.nih.gov/pubmed/?term=34740309

## Biomarkers - Genetics (84 articles)

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2. **Role of tumor necrosis factor -α in the mortality of hospitalized patients with severe and critical COVID-19 pneumonia.** Aging (Albany NY) 2021; 13Jia F, Wang G, Xu J *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34725309
3. **High circulating Plasma Soluble Receptor for Advanced Glycation End-Products in Early CARDS - Pathophysiological Significance?** Am J Respir Crit Care Med 2021; Jain A. http://www.ncbi.nlm.nih.gov/pubmed/?term=34727514
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