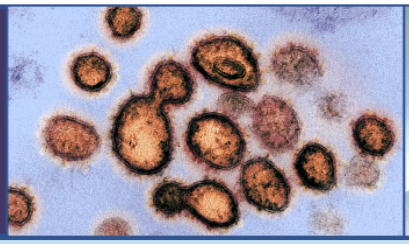
Covid-19
Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

Update March 29 - April 4, 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 13 2021
1460 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**

Cochrane
BMJ
The Lancet
New England Journal of Medicine
JAMA
Cell
Science
Oxford Universtiy Press
Cambridge Univeristy Press
Springer Nature
Elsevier
Wiley
PLOS

Genomic epidemiology

Oxygenation Ventilation toolkit

German (ICU) bed capacity

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)

LitCovid NIH-NLM

SSRN (Pre-prints)

COVID reference (Steinhauser Verlag)

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)

Re: Plasma exchange and convalescent plasma in COVID-19 patients with multi-organ failure –

The COVID-19 PLEX + Convalescent Plasma trial –

Enrollment initiated

The Covid-Plex trial is an investigator initiated, multicenter, parallel-group, open-label randomized clinical trial aiming to randomize patients with severe COVID-19 to standard care or standard care plus plasmapheresis and convalescent plasma.

If you are interested to participate Please contact Wladimir Szpirt, Nicholas Carlson Anders, or Perner Bo Feldt-Rasmussen. Depts. Of Intensive Care Therapy and Nephrology, Copenhagen University Hospital Rigshospitalet, Denmark

Covid-Plex trial

Mainstream Media

New York Times - Corona update

Slovakia Claims a Bait-and-Switch With the Russian Vaccines it Ordered

Has the Era of Overzealous Cleaning Finally Come to an End?

Vaccinated Mothers Are Trying to Give Babies Antibodies via Breast Milk

Online Scammers Have a New Offer for You: Vaccine Cards

Likely Legal, 'Vaccine Passports' Emerge as the Next Coronavirus Divide

Many Children With Serious Inflammatory Syndrome Had No Covid Symptoms

How Will China Vaccinate 560 Million People? Start With Free Ice Cream

Researchers Are Hatching a Low-Cost Coronavirus Vaccine

My Life in Israel's Brave New Post-Pandemic Future

Washington Post - Corona update

The virus is somersaulting toward younger people

Rise of coronavirus variants will define the next phase of the pandemic in the U.S.

Supporters tout anti-parasite drug as covid-19 treatment, but skeptics call it the 'new hydroxychloroquine'

Stress on the front lines of covid-19

Should health-care workers be required to get coronavirus shots?

Are we entering a 'fourth wave' of the pandemic? Experts disagree.

Fully vaccinated people are at low-risk from travel, CDC says

Your questions about coronavirus vaccines, answered

Coronavirus vaccines are coming for kids — but studies have to be finished first

Pfizer, Moderna vaccines are 90% effective after two doses in study of real-life conditions, CDC confirms

Guardian - Corona update

Extent of mental health crisis in England at 'terrifying' level

Publish figures on long Covid to show 'untold suffering', MPs urge

Covid plan for England: trips abroad could be permitted from May
Brazilian Covid variant: what do we know about P1?
Covid-19: how does it cause heart damage

Key Articles

1. **Literature Review of COVID-19, Pulmonary and Extrapulmonary Disease.** Am. J. Med. Sci. 2021; Yazdanpanah F, Asmarz HY, Shadman S. http://www.ncbi.nlm.nih.gov/pubmed/?term=33785204
   In this concise review, those who want to familiarise themselves with COVID-19 disease, and the SARS-COV-2 virus characteristics, are presented with a broad range of relevant topics. This review is based on 59 articles that met inclusion criteria, e.g., Case reports, case series, cohort studies, reviews, meta-analysis. The referenced articles provide more in-depth details for those that have a particular interest in specific topics.

2. **COVID-19 vaccine response in pregnant and lactating women: a cohort study.** Am J Obstet Gynecol 2021; Gray KJ, Bordt EA, Atyeo C *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33775692
   The large COVID-19 vaccination trials excluded pregnant and lactating women. With the rapid expansion of national vaccination programs, the lack of data on vaccine efficacy and safety is hampering vaccine decision-making for those women. This study included 131 women (84 pregnant, 31 lactating, and 16 non-pregnant women). The findings look reassuring, showing robust humoral immunity and similar immunogenicity and reactogenicity response compared to non-pregnant and lactating women. Immune transfer to neonates occurred via placenta and breastmilk

3. **Defining Post-COVID Symptoms (Post-Acute COVID, Long COVID, Persistent Post-COVID): An Integrative Classification.** Int J Environ Res Public Health 2021; 18Fernández-de-Las-Peñas C, Palacios-Ceña D, Gómez-Mayordomo V *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33807869
   COVID-19 patients are rarely affected with severe and sometimes fatal complications. A more prolonged and relapsing expression of post-COVID-19 symptoms is observed in hospitalized and non-hospitalized patients quite frequently. To better understand the underlying mechanisms and study post-COVID-19 symptoms, this article's authors propose a clearly defined definition and classification of Post-COVID-19 symptoms.

4. **Neurological manifestations and complications of coronavirus disease 2019 (COVID-19): a systematic review and meta-analysis.** BMC Neurol. 2021; 21:138Yassin A, Nawaiseh M, Shaban A *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33784985

5. **The Primary Prevention of Venous Thromboembolism in Patients with COVID-19 in Japan: Current Status and Future Perspective.** Ann Vasc Dis 2021; 14:1-4Yamashita Y, Yamada N, Mo M. http://www.ncbi.nlm.nih.gov/pubmed/?term=33786092

6. **The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?** Cells 2021; 10Saravi B, Li Z, Lang CN *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33804069

7. **The variant gambit: COVID-19's next move.** Cell Host Microbe 2021; Plante JA, Mitchell BM, Plante KS *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33789086

8. **Therapeutic and prognostic role of vitamin D for COVID-19 infection: A systematic review and meta-analysis of 43 observational studies.** J. Steroid Biochem. Mol. Biol. 2021:105883Petrelli F, Luciani A, Perego G *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33775818

9. **How fast should social restrictions be eased in England as COVID-19 vaccinations are rolled out?** Int J Clin Pract 2021:e14191Miles DK, Heald AH, Stedman M. http://www.ncbi.nlm.nih.gov/pubmed/?term=33788370

10. **Long COVID - An Early Perspective.** J. Insur. Med. 2021; Meagher T. http://www.ncbi.nlm.nih.gov/pubmed/?term=33784738

11. **Genome-wide Analysis of 10664 SARS-CoV-2 Genomes to Identify Virus Strains in 73 Countries based on Single Nucleotide Polymorphism.** Virus Res. 2021:198401Ghosh N, Saha I, Sharma N *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33781798

12. **Genetic Evidence and Host Immune Response in Persons Reinfected with SARS-CoV-2, Brazil.** Emerg Infect Dis 2021; 27Fintelman-Rodrigues N, da Silva APD, Dos Santos MC *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33797393

13. **Mortality in Patients with COVID-19 on Renin Angiotensin System Inhibitor Long-Term Treatment: An Observational Study Showing that Things Are Not Always as They Seem.** Adv Ther 2021:1-8Cugno M, Gualtierotti R, Casazza G *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33792889

14. **Renin-angiotensin system blockade in the COVID-19 pandemic.** Clin Kidney J 2021; 14:i48-i59Cohen JB, South AM, Shaltout HA *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33796285

15. **Fever: Could A Cardinal Sign of COVID-19 Infection Reduce Mortality?** Am. J. Med. Sci. 2021; 361:420-426Cann SAH. http://www.ncbi.nlm.nih.gov/pubmed/?term=33781387

Basic Science (104 articles)

1. **State-of-the-Art of Nanodiagnostics and Nanotherapeutics against SARS-CoV-2.** ACS Appl Mater Interfaces 2021; Derakhshan MA, Amani A, Faridi-Majidi R. http://www.ncbi.nlm.nih.gov/pubmed/?term=33779135
2. **Computational Fluidic Modeling of a Low-Cost Fluidic Oscillator for Conversion of a CPAP Machine into an Emergency Use Mechanical Ventilator.** Adv Nanobiomed Res 2021:2000112Dillon T, Ozturk C, Mendez K *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33786536
3. **Differentially expressed immune response genes in COVID-19 patients based on disease severity.** Aging (Albany NY) 2021; 13Li S, Duan X, Li Y *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33780352
4. **Screening strategy of TMPRSS2 inhibitors by FRET-based enzymatic activity for TMPRSS2-based cancer and COVID-19 treatment.** Am. J. Cancer Res. 2021; 11:827-836Chen Y, Huang WC, Yang CS *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33791156
5. **A Recombinant Fragment of Human Surfactant Protein D Binds Spike Protein and Inhibits Infectivity and Replication of SARS-CoV-2 in Clinical Samples.** Am. J. Respir. Cell Mol. Biol. 2021; Madan T, Biswas B, Varghese PM *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33784482
6. **Mechanisms Modified by (-)-Epicatechin and Taxifolin Relevant for the Treatment of Hypertension and Viral Infection: Knowledge from Preclinical Studies.** Antioxidants (Basel) 2021; 10Bernatova I, Liskova S. http://www.ncbi.nlm.nih.gov/pubmed/?term=33809620
7. **Implications of a highly transmissible variant of SARS-CoV-2 for children.** Arch. Dis. Child. 2021; Ratmann O, Bhatt S, Flaxman S. http://www.ncbi.nlm.nih.gov/pubmed/?term=33785527
8. **SARS-CoV-2 spike protein interactions with amyloidogenic proteins: Potential clues to neurodegeneration.** Biochem. Biophys. Res. Commun. 2021; 554:94-98Idrees D, Kumar V. http://www.ncbi.nlm.nih.gov/pubmed/?term=33789211
9. **ALG-097111, a potent and selective SARS-CoV-2 3-chymotrypsin-like cysteine protease inhibitor exhibits in vivo efficacy in a Syrian Hamster model.** Biochem. Biophys. Res. Commun. 2021; 555:134-139Vandyck K, Abdelnabi R, Gupta K *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33813272
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11. **Metagenomics Approaches to Investigate the Gut Microbiome of COVID-19 Patients.** Bioinform. Biol. Insights 2021; 15:1177932221999428Sehli S, Allali I, Chahboune R *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33786001
12. **Exaptation of Retroviral Syncytin for Development of Syncytialized Placenta, Its Limited Homology to the SARS-CoV-2 Spike Protein and Arguments against Disturbing Narrative in the Context of COVID-19 Vaccination.** Biology (Basel) 2021; 10Kloc M, Uosef A, Kubiak JZ, Ghobrial RM. http://www.ncbi.nlm.nih.gov/pubmed/?term=33808658
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22. **Antiviral drug screen identifies DNA-damage response inhibitor as potent blocker of SARS-CoV-2 replication.** Cell Rep. 2021:108940Garcia G, Jr., Sharma A, Ramaiah A *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33784499
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27. **Thymic Aging May Be Associated with COVID-19 Pathophysiology in the Elderly.** Cells 2021; 10Wang W, Thomas R, Oh J, Su DM. http://www.ncbi.nlm.nih.gov/pubmed/?term=33808998
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