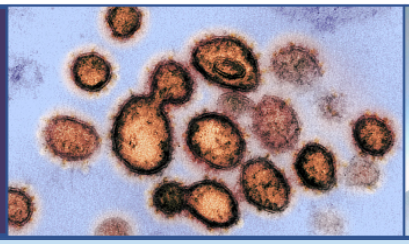
Covid-19
Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

Update April 19 - April 25, 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 16 2021
972 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

What to Know About India's Coronavirus Crisis

Vaccine Skepticism Was Viewed as a Knowledge Problem. It's Gut Beliefs.

How Pfizer Makes Its Covid-19 Vaccine

Turkey braces for its strictest lockdown yet, as the virus surges and vaccinations lag

Pakistan warns of new strictures as its daily Covid death toll sets a record.

The Pfizer and Moderna vaccines are 94 percent effective at preventing hospitalization in older adults

Brazil's health authority rejects importing Russia's Sputnik V vaccine.

The European Union sues AstraZeneca over missing vaccine doses.

Washington Post - Corona update

our questions about coronavirus vaccines, answered

What you need to know about the coronavirus variants

The pandemic's chilling effect on free speech

J&J coronavirus vaccine needs rare blood clot warning but that benefits outweigh risks

jump the vaccine line? In Germany, you could face prosecution.

Should I wear a mask outside? Experts weigh in on scenarios.

What to expect if you're traveling this summer

Guardian - Corona update

How continental Europe is emerging from Covid lockdown

Figures on Covid deaths post-jab show vaccine's success, scientists say

Australian government may make it a crime for citizens to return from Covid-ravaged countries

Is Russia's Covid vaccine anything more than a political weapon?
Eurozone driven into double-dip recession as Covid takes toll

Key Articles

1. **COVID-19 and thrombotic microangiopathies.** Thromb Res 2021; 202:191-198Tiwari NR, Phatak S, Sharma VR, Agarwal SK. http://www.ncbi.nlm.nih.gov/pubmed/?term=33894421
   This global literature review evaluated the impact of thrombotic complications in severely affected COVID-19 patients. The use of conventional prophylactic and therapeutic doses of anticoagulation was ineffective in preventing thrombotic complications in roughly one-third of patients. The review suggests several assessments as well as therapeutic strategies to improve survival and outcomes in severe COVID-19 patients.

2. **Eight-month follow-up of olfactory and gustatory dysfunctions in recovered COVID-19 patients.** Am. J. Otolaryngol. 2021; 42:103065Biadsee A, Dagan O, Ormianer Z *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33894627
   Loss of smell and taste are common clinical features in patients with symptomatic SARS-CoV-2 infections. In this small Israeli study, 97 patients were followed for a mean period of 229 days, recovery of smell and taste occurred in 52% and 61.5% respectively of the participants; however, a large number of patients continue to experience these serious complaints after 6-8 months of follow-up.

3. **Retrospective observational RT-PCR analyses on 688 babies born to 843 SARS-CoV-2 positive mothers, placental analyses and diagnostic analyses limitations suggest vertical transmission is possible.** Facts Views Vis Obgyn 2021; 13:53-66Bahadur G, Bhat M, Acharya S *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33889861
   The scale of the COVID-19 pandemic ensures that the risk of getting infected does include pregnant women and their unborn fetus. The risk of vertical transmission of the SARS-C0V-2 virus was evaluated in this systematic review of 82 studies that included 862 pregnant women with a positive RT-PCR. After birth, 14 babies had a positive RT-PCR test at birth; three babies showed positive test results on days 6 and 7. Placental swabs were positive in four studies, and this was observed in 10 fetal amniotic fluid swabs as well. These results indicate a substantial likelihood of vertical transmission from mother to baby is possible

4. **Cause of death based on systematic postmortem studies in patients with positive SARS-CoV2 tissue PCR during the COVID-19 pandemic.** J Intern Med 2021; Romanova ES, Vasilyev VV, Startseva G *et al.*

http://www.ncbi.nlm.nih.gov/pubmed/?term=33872433

5. **Prevalence of proximal deep vein thrombosis in hospitalized COVID-19 patients.** Eur J Intern Med 2021; Reichert G, Bunel V, Dreyfuss D *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33875336

6. **An international perspective of out-of-hospital cardiac arrest and cardiopulmonary resuscitation during the COVID-19 pandemic.** Am J Emerg Med 2021; 47:192-197Ong J, O'Connell F, Mazer-Amirshahi M, Pourmand A. http://www.ncbi.nlm.nih.gov/pubmed/?term=33894661

7. **An evaluation of venous thromboembolism by whole-body enhanced CT scan for critical COVID-19 pneumonia with markedly rises of coagulopathy related factors: a case series study.** Thromb J 2021; 19:26Ogawa F, Oi Y, Nakajima K *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33879177

8. **Angiotensin-converting enzyme 2 (ACE2): role in the pathogenesis of diseases outside of COVID-19.** Nephrologe 2021; Mülling N, Rohn H.

9. **Anticoagulation and In-Hospital Mortality From Coronavirus Disease 2019: A Systematic Review and Meta-Analysis.** Clin. Appl. Thromb. Hemost. 2021; 27:10760296211008999Moonla C, Sosothikul D, Chiasakul T *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33874753

10. **The effect of cardiovascular disease and acute cardiac injury on fatal COVID-19: a meta-analysis.** Am J Emerg Med 2021; 48:128-139Long J, Luo Y, Wei Y *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33895644

11. **Safety profile of enhanced thromboprophylaxis strategies for critically ill COVID-19 patients during the first wave of the pandemic: observational report from 28 European intensive care units.** Crit Care 2021; 25:155Lavinio A, Ercole A, Battaglini D *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33888132

12. **Status Report on COVID-19 Vaccines Development.** Curr. Infect. Dis. Rep. 2021; 23:9Kumar A, Dowling WE, Román RG *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33867863

13. **Trends in mortality of hospitalised COVID-19 patients: A single centre observational cohort study from Spain.** Lancet Reg Health Eur 2021; 3:100041Garcia-Vidal C, Cózar-Llistó A, Meira F *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33870249

14. **Characteristics of SARS-CoV-2 variants of concern B.1.1.7, B.1.351 or P.1: data from seven EU/EEA countries, weeks 38/2020 to 10/2021.** Euro

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Basic Science (45 articles)

1. **Antibody Affinity Governs the Inhibition of SARS-CoV-2 Spike/ACE2 Binding in Patient Serum.** ACS Infect Dis 2021; Fiedler S, Piziorska MA, Denninger V *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33876632
2. **A cell-based assay to discover inhibitors of SARS-CoV-2 RNA dependent RNA polymerase.** Antiviral Res 2021; 190:105078Zhao J, Guo S, Yi D *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33894278
3. **Antiviral peptides from aquatic organisms: Functionality and potential inhibitory effect on SARS-CoV-2.** Aquaculture 2021; 541:736783Sumon TA, Hussain MA, Hasan M *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33883784
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Biomarkers - Genetics (111 articles)

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