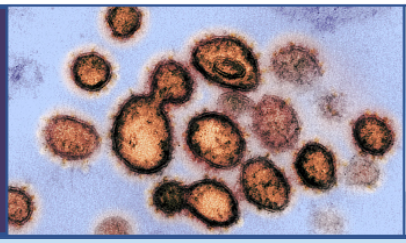
Covid-19
Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

Update January 18 - January 24, 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 03 2021
854 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

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)

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)

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

Vaccine Shortages Hit E.U. in a Setback for Its Immunization Race

Britain Will Make Citizens Quarantine at Hotels at Their Own Expense

What to Know About the California Variant

Israel's Early Vaccine Data Offers Hope

As Virus Grows Stealthier, Vaccine Makers Reconsider Battle Plans

In Crises, Vaccines Can Be Stretched, but Not Easily

Do Curfews Slow the Coronavirus?

Drug Prevents Coronavirus Infection in Nursing Homes, Maker Claims

Coronavirus Vaccine Tracker

Coronavirus Drug and Treatment Tracker

Washington Post - Corona update

E.U. feuds with AstraZeneca - facility locked down over suspicious package

Philadelphia let 'college kids' distribute vaccines. The result was a 'disaster,'

China rolls out anal swab coronavirus test, saying it's more accurate

The battle over reopening schools

As variants spread, countries pursue new round of travel restrictions

What you need to know about the coronavirus variants

Everyone should be wearing N95 masks now

Dubai seemed to have the coronavirus licked. Then it flung open its doors.

We still don't know how many people are infected with covid. We can find out.

Guardian - Corona update

All countries should pursue a Covid-19 elimination strategy

Cough and sore throat more common with UK Covid variant – study

Hospital incursions by Covid deniers putting lives at risk, say health leaders

Most poor nations 'will take until 2024 to achieve mass Covid-19 immunisation

AstraZeneca vaccine may not go to older people, EU medicines chief suggests

1. **Most notable 100 articles of COVID-19: an Altmetric study based on bibliometric analysis.** Ir. J. Med. Sci. 2021; Borku Uysal B, Islamoglu MS, Koc S *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33459942
   The COVID-19 pandemic has fuelled a tsunami of scientific output in peer-reviewed journals. This review analyzes the bibliometric features of the 100 most cited articles ((January – September 2020). All articles were English language articles, and the average citations index was 320 ± 344.3 (143–2676); the average Altimetric (impact on Social Media) score 3246 ± 3795 (85–16,548). “Clinical Characteristics of Coronavirus Disease 2019 in China” is the most cited article, published in April 2020, and received 2676 citations in 5 months. The first three articles with >1000 citations were studies conducted in China, published in March–April. The article with the highest Altmetric score is “Covid-19-Navigating the Uncharted” by Fauci et al. with 16,548. Of the top 100 articles., 78 addressed the epidemiological, viral, clinical, and treatment features of COVID-19

2. **Effect of antiplatelet treatments on patients with COVID-19 infection: A systematic review and meta-analysis.** Am J Emerg Med 2021; 43:27-30Wang Y, Ao G, Nasr B, Qi X. http://www.ncbi.nlm.nih.gov/pubmed/?term=33485124
   Platelet activation is associated with thrombin generation triggering disseminated intravascular coagulation and inducing vascular inflammation and extracellular matrix degradation. Early antiplatelet therapy could inhibit platelet adhesion, aggregation, and activation. In this meta-analysis, based on 9 articles and 5970 patients showed no increase in risk for severe COVID-19 complications; OR:0.98 (0.64-1.50; P=0.94; I 2=65%) or mortality; OR:0.65 (0.40-1.06, P=0.498; I 2=0%).

3. **COVID-19 discharge and follow-up recommendations.** Proc. (Bayl. Univ. Med. Cent.) 2020; 34:73-75Abdelnabi M, Leelaviwat N, Eshak N *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33456149
   The management of discharged COVID-19 patients is insufficiently addressed and warrants proper recommendations and guidelines. This concise review presents current understanding and proposals for discharge criteria, treatments, and follow-up visits. Core issues addressed are thromboprophylaxis, corticosteroids, oxygen use, adjuvant therapies such as vitamin D, C, zinc, and follow-up schedules, including monitoring late sequelae of organ related complications, psychological support, and laboratory tests.

4. **Myocardial Inflammation and Dysfunction in COVID-19-Associated Myocardial Injury.** Circ. Cardiovasc. Imaging 2021:Circimaging120011713Weckbach LT, Curta A, Bieber S *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33463366

5. **Building Experience and Evidence: COVID-19 and Myocardial Injury.** Circ. Cardiovasc. Imaging 2021:Circimaging120012220Verma AK, Vader JM. http://www.ncbi.nlm.nih.gov/pubmed/?term=33461305

6. **Impact of high dose prophylactic anticoagulation in critically ill patients with COVID-19 pneumonia.** Chest 2021; Tacquard C, Mansour A, Godon A *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33465342

7. **Short-term cardiac outcome in survivors of COVID-19: a systematic study after hospital discharge.** Clin Res Cardiol 2021:1-10Sechi LA, Colussi G, Bulfone L *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33481096

8. **SARS-CoV-2 viral load in nasopharyngeal swabs in the ED does not predict COVID-19 severity and mortality.** Acad Emerg Med 2021; Le Borgne P, Solis M, Severac F *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33481307

9. **Antibody tests for COVID-19.** Proc. (Bayl. Univ. Med. Cent.) 2020; 34:63-72Kopel J, Goyal H, Perisetti A. http://www.ncbi.nlm.nih.gov/pubmed/?term=33456148

10. **A complementary critical appraisal on systematic reviews regarding the most efficient therapeutic strategies for current COVID-19 (SARS-CoV-2) pandemic.** J Med Virol 2021; Kheirabadi D, Haddad F, Mousavi-Roknabadi RS *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33463727

11. **Pathological Evidence for SARS-CoV-2 as a Cause of Myocarditis: JACC Review Topic of the Week.** J Am Coll Cardiol 2021; 77:314-325Kawakami R, Sakamoto A, Kawai K *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33478655

12. **Is there a correlation between viral load and olfactory & taste dysfunction in COVID-19 patients?** Am. J. Otolaryngol. 2021; 42:102911Jain A, Pandey AK, Kaur J *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33476975

13. **Autopsy findings after long-term treatment of COVID-19 patients with microbiological correlation.** Virchows Arch. 2021:1-12Evert K, Dienemann T, Brochhausen C *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33471172

14. **SARS-CoV-2 vaccines in advanced clinical trials: where do we stand.** Adv Drug Deliv Rev 2021; Chakraborty S, Mallajosyula V, Tato CM *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33482248

15. **When Does the Cytokine Storm Begin in COVID-19 Patients? A Quick Score to Recognize It.** J Clin Med 2021; 10Cappanera S, Palumbo M, Kwan SH *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33467466

Basic Science (65 articles)

1. **In silico docking analysis revealed the potential of phytochemicals present in Phyllanthus amarus and Andrographis paniculata, used in Ayurveda medicine in inhibiting SARS-CoV-2.** 3 Biotech 2021; 11:44Hiremath S, Kumar HDV, Nandan M *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33457171
2. **Designing a next generation multi-epitope based peptide vaccine candidate against SARS-CoV-2 using computational approaches.** 3 Biotech 2021; 11:47Saha R, Ghosh P, Burra V. http://www.ncbi.nlm.nih.gov/pubmed/?term=33457172
3. **Design of SARS-CoV-2 hFc-Conjugated Receptor-Binding Domain mRNA Vaccine Delivered via Lipid Nanoparticles.** ACS Nano 2021; Elia U, Ramishetti S, Rosenfeld R *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33480671
4. **In silico T cell epitope identification for SARS-CoV-2: Progress and perspectives.** Adv Drug Deliv Rev 2021; Sohail MS, Ahmed SF, Quadeer AA, McKay MR. http://www.ncbi.nlm.nih.gov/pubmed/?term=33465451
5. **Sterilizing Immunity against SARS-CoV-2 Infection in Mice by a Single-Shot and Lipid Amphiphile Imidazoquinoline TLR7/8 Agonist-Adjuvanted Recombinant Spike Protein Vaccine.** Angew. Chem. Int. Ed. Engl. 2021; Jangra S, De Vrieze J, Choi A *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33464672
6. **Pharmacoinformatics approach based identification of potential Nsp15 endoribonuclease modulators for SARS-CoV-2 inhibition.** Arch. Biochem. Biophys. 2021:108771Savale RU, Bhowmick S, Osman SM *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33485847
7. **Biochemical features and mutations of key proteins in SARS-CoV-2 and their impacts on RNA therapeutics.** Biochem. Pharmacol. 2021:114424Zeng L, Li D, Tong W *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33482149
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9. **Multifunctional angiotensin converting enzyme 2, the SARS-CoV-2 entry receptor, and critical appraisal of its role in acute lung injury.** Biomed. Pharmacother. 2021; 136:111193Oz M, Lorke DE. http://www.ncbi.nlm.nih.gov/pubmed/?term=33461019
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11. **NMR assignments of the macro domain from severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).** Biomol NMR Assign 2021; Lin MH, Huang YP, Chang CF, Hsu CH. http://www.ncbi.nlm.nih.gov/pubmed/?term=33486617
12. **(1)H, (13)C and (15)N backbone chemical shift assignments of SARS-CoV-2 nsp3a.** Biomol NMR Assign 2021:1-4Salvi N, Bessa LM, Guseva S *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33475934
13. **A rapid diagnosis of SARS-CoV-2 using DNA hydrogel formation on microfluidic pores.** Biosens. Bioelectron. 2021; 177:113005Kim HS, Abbas N, Shin S. http://www.ncbi.nlm.nih.gov/pubmed/?term=33486135
14. **Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach.** Biosens.

Bioelectron. 2020:112672Li X, Qin Z, Fu H *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33461849

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23. **Nanotechnology Enabled Solutions to Combat Covid-19: Prevention, Treatment and Diagnosis.** Curr. Pharm. Biotechnol. 2021; Musyuni P, Nagpal M, Singh M *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33480338
24. **An Updated Review on Betacoronavirus Viral Entry Inhibitors: Learning from Past Discoveries to Advance COVID-19 Drug Discovery.** Curr. Top. Med. Chem. 2021; Sabbah DA, Hajjo R, Bardaweel SK, Zhong HA. http://www.ncbi.nlm.nih.gov/pubmed/?term=33463470
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35. **Transcriptome network analyses in human coronavirus infections suggest a rational use of immunomodulatory drugs for COVID19 therapy.** Genomics 2021; Wong HS, Guo CL, Lin GH *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=33482326
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Biomarkers - Genetics (99 articles)

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