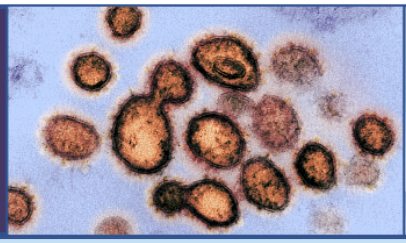
Covid-19
Literature Update



A CURATED SELECTION AND OVERVIEW OF COVID-19 PUBLICATIONS

Update August 30 - September 05, 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 35 2021
866 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
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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)

New York Times - Corona update

Denmark lifts the last of its coronavirus restrictions.
Berlin Clubs Return With a Vengeance
Biden Doubled Mask Fines. What Does It Mean for Air Passengers?
The Second Act of the Vaccine Resistance
U.S. virus cases are more than ten times too high, Fauci says.
6 Questions About Kids and Covid, Answered
7 True Stories From Virtual School

Washington Post - Corona update

France's former health minister placed under investigation for 'endangering lives'
Are at-home covid tests accurate? What the results can and can't tell you.
Masks and covid-19: Explaining the latest guidance
Navigating coronavirus restrictions in Europe requires a new set of skills
Vaccine etiquette: A guide to politely navigating this new phase of the pandemic
More virus-zapping robots are coming, and they're here to stay

Guardian - Corona update

Plans for Covid vaccine passports in England ditched
Post-illness symptoms like long Covid are probably more common than we think
Australia: NSW reports 1,262 new cases and Victoria 392 as outbreaks spread
Is it ethical to travel right now? Experts on flying in the age of Delta
Thirteen gorillas test positive for Covid at Atlanta zoo
Awaiting a 'tsunami of Covid': UK lecturers fear students' retur**n**

Key Articles

1. Intradermal immunisation - A dose-sparing strategy to combat global shortages of SARS-CoV-2 vaccines? Clin Microbiol Infect 2021; Schnyder JL, de Jong HK, Grobusch MP. http://www.ncbi.nlm.nih.gov/pubmed/?term=34469811
   The increasing global demand for COVID-19 vaccines is hampered by insufficient supply and costs, especially in developing economies. Using a well-tested intradermal inoculation approach could significantly expand the number of patients vaccinated with the currently used vaccines. For intradermal application, 0.1 mL is sufficient vs. 0.3 mL for IM injections. This would ease supply and demand as well as lifting some of the financial burdens in poorer countries.

2. COVID-19 vaccine safety monitoring in the Republic of Korea: February 26, 2021 to April 30, 2021. Osong Public Health Res Perspect 2021; 12:264-268Oh HK, Kim EK, Hwang I et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34465075
   Evidence regarding the safety of currently used COVID-19 Vaccines is expanding. This Korean national safety monitoring registry evaluated the reported harms of AstraZeneca and Pfizer-BioNTech vaccines (3 586 814 dosages); between February 26 and April 30, 2021, a total of 16196 adverse

events were reported, 96,7% were classified as mild, non-serious events. 538 (3.3%) were serious events, 73 (0.5%) deaths. None of the deaths were caused by the COVID-19 vaccines

3. Association of E484K spike protein mutation with SARS-CoV-2 infection in vaccinated persons---Maryland, January - May 2021. Clin Infect Dis 2021; Feder KA, Patel A, Vepachedu VR et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34473242
   Which vaccinated patients are at risk for re-infection with the SARS-CoV-2 virus. In this US study, two different mutations in the SARS-CoV-2 spike protein were evaluated in patients that presented with post-vaccine re-infections. The following mutations were shown to be associated with a greater risk of re-infection. The E484K mutation, OR:148 (1.08-2.04), and the L452R mutations, OR: 1.30 (0.87-1.95). The E484K mutation was significantly more likely to have been collected in hospitalized fully vaccinated patients, OR:2.3 (1.08-4.91), this was unlikely with the L453R variant, OR:0.33 (0.05-2.44).

4. Multiomics: unraveling the panoramic landscapes of SARS-CoV-2 infection. Cell. Mol. Immunol. 2021:1-12Wang X, Xu G, Liu X et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34471261

5. Vaccine effectiveness against infection with the Delta (B.1.617.2) variant, Norway, April to August 2021. Euro Surveill 2021; 26Seppälä E, Veneti L, Starrfelt J et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34477054

6. Transmission of SARS-CoV-2 associated with aircraft travel: A systematic review. J Travel Med 2021; Rosca EC, Heneghan C, Spencer EA et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34480171

7. Short-term outcomes of infants born to mothers with SARS-CoV-2 infection. J Matern Fetal Neonatal Med 2021:1-7Moffat MA, Dessie AS, O'Leary K et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34470140

8. Nuts and bolts of COVID-19 associated coagulopathy: the essentials for management and treatment. Postgrad. Med. 2021; Lindsay PJ, Rosovsky R, Bittner EA, Chang MG. http://www.ncbi.nlm.nih.gov/pubmed/?term=34470540

9. Predictors of severe and critical disease in pregnant women with SARS-CoV-2. J Matern Fetal Neonatal Med 2021:1-5Limaye MA, Roman AS, Trostle ME et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34470122

10. A Randomized Trial of Icosapent Ethyl in Ambulatory Patients with COVID-19. iScience 2021:103040Kosmopoulos A, Bhatt DL, Meglis G et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34462732

11. Pharmacotherapeutic agents for the management of COVID-19 patients with preexisting cardiovascular disease. Expert Opin. Pharmacother. 2021:1-20Khan M, Singh GK, Abrar S et al. http://www.ncbi.nlm.nih.gov/pubmed/?

term=34464223

12. A Comprehensive Review of the Management of Pregnant Women with COVID-19: Useful Information for Obstetricians. Infect Drug Resist 2021; 14:3363-3378Guo F, Yang X. http://www.ncbi.nlm.nih.gov/pubmed/?term=34466003

13. Out-of-hospital cardiac arrest during lockdown: Effects of the infection prevention measures during the first wave of SARS-CoV-2 pandemic. Notfall und Rettungsmedizin 2021; Grübl T, Plöger B, Sassen MC et al.

14. The impact of Vaccination worldwide on SARS-CoV-2 infection: A Review on Vaccine Mechanisms, Results of Clinical Trials, Vaccinal Coverage and Interactions with Novel Variants. Curr Med Chem 2021; Damasceno DHP, Amaral AA, Silva CA, Simões ESAC. http://www.ncbi.nlm.nih.gov/pubmed/?term=34473613

15. Cardiac Complications in Patients Hospitalised With COVID-19 in Australia. Heart Lung Circ. 2021; Bhatia KS, Sritharan HP, Chia J et al. http://www.ncbi.nlm.nih.gov/pubmed/?term=34481762

Basic Science (48 articles)

1. **Surface Engineering of Graphene through Heterobifunctional Supramolecular-Covalent Scaffolds for Rapid COVID-19 Biomarker Detection.** ACS Appl Mater Interfaces 2021; Piccinini E, Allegretto JA, Scotto J *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34470205
2. **Separable Microneedle Patch to Protect and Deliver DNA Nanovaccines Against COVID-19.** ACS Nano 2021; Yin Y, Su W, Zhang J *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34472328
3. **Analytical and Clinical Evaluation of the Semiquantitative Elecsys Anti-SARS-CoV-2 Spike Protein Receptor Binding Domain Antibody Assay on the Roche cobas e602 Analyzer.** Am J Clin Pathol 2021; Chan CW, Yi X, Lenza M *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34463315
4. **Variation in SARS-CoV-2 molecular test sensitivity by specimen types in a large sample of emergency department patients.** Am J Emerg Med 2021; 50:381-387Bruxvoort K, Tenggardjaja CF, Slezak J *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34478943
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7. **Novel plantain peel activated carbon-supported zinc oxide nanocomposites (PPAC-ZnO-NC) for adsorption of chloroquine synthetic pharmaceutical used**

for COVID-19 treatment. Biomass Convers Biorefin 2021:1-13Dada AO, Inyinbor AA, Bello OS, Tokula BE. http://www.ncbi.nlm.nih.gov/pubmed/?term=34458068

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41. **NEAT1 and MALAT1 are highly expressed in saliva and nasopharyngeal swab samples of COVID-19 patients.** Mol. Oral Microbiol. 2021; Rodrigues AC, Adamoski D, Genelhould G *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34463043
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Biomarkers - Genetics (108 articles)

1. **Surface Engineering of Graphene through Heterobifunctional Supramolecular-Covalent Scaffolds for Rapid COVID-19 Biomarker Detection.** ACS Appl Mater Interfaces 2021; Piccinini E, Allegretto JA, Scotto J *et al.* http://www.ncbi.nlm.nih.gov/pubmed/?term=34470205
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