ESP Knowledge Focus on SARS-CoV-2 and COVID-19

Contents

A) General Scientific data

Histopathology
1. Histopathologic Changes and SARS–CoV-2 Immunostaining in the Lung of a Patient With COVID-19
2. Evidence for gastrointestinal infection of SARS-CoV-2
3. Pathological findings of COVID-19 associated with acute respiratory distress syndrome
5. Pathological study of the 2019 novel coronavirus disease (COVID-19) through post-mortem core biopsies (not peer reviewed)
6. Pathological findings of COVID-19 associated with acute respiratory distress syndrome

Epidemiology
7. A new coronavirus associated with human respiratory disease in China
8. A pneumonia outbreak associated with a new coronavirus of probable bat origin
9. Epidemiology and Transmission of COVID-19 in Shenzhen China: Analysis of 391 cases and 1,286 of their close contacts (not peer reviewed)
10. Case-Fatality Rate and Characteristics of Patients Dying in Relation to COVID-19 in Italy
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12. Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1
13. Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study
14. Substantial undocumented infection facilitates the rapid dissemination of novel coronavirus (SARS-CoV2)
15. COVID-19: epidemiology, evolution, and cross-disciplinary perspectives

Clinical Data
17. A dynamic immune response shapes COVID-19 progression
18. Clinical Features of 69 Cases with Coronavirus Disease 2019 in Wuhan, China
19. Antibody responses to SARS-CoV-2 in patients of novel coronavirus disease 2019
20. Quantitative Detection and Viral Load Analysis of SARS-CoV-2 in Infected Patients
21. Coronavirus fulminant myocarditis saved with glucocorticoid and human immunoglobulin
22. COVID-19 and Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers. What Is the Evidence?
24. Cardiovascular Implications of Fatal Outcomes of Patients with Coronavirus Disease 2019 (COVID-19)
25. Cardiac Involvement in a Patient with Coronavirus Disease 2019 (COVID-19)
27. Pathogenic T cells and inflammatory monocytes incite inflammatory storm in severe COVID-19 patients
28. Viral dynamics in mild and severe cases of COVID-19
29. Characteristics of pediatric SARS-CoV-2 infection and potential evidence for persistent fecal viral shedding
30. Breadth of concomitant immune responses prior to patient recovery: a case report of non-severe COVID-19
31. Novel Coronavirus Infection in Hospitalized Infants Under 1 Year of Age in China

Diagnostics
32. A serological assay to detect SARS-CoV-2 seroconversion in humans (not peer reviewed)
33. Detection of SARS-CoV-2 in Different Types of Clinical Specimens
34. Prolonged presence of SARS-CoV-2 viral RNA in faecal samples
35. Diagnostic detection of Wuhan coronavirus 2019 by real-time RTPCR

Molecular Biology
36. A Genomic Perspective on The Origin and Emergence of SARS-CoV-2
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37. Probable pangolin origin of SARS-CoV-2 associated with the COVID-19 outbreak
38. SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor
40. Structural basis for human coronavirus attachment to sialic acid receptors
41. Structural basis for the recognition of the SARS-CoV-2 by full-length human ACE2

Vaccines
42. SARS-CoV-2 vaccines: status report

B) Pathology Practice Data including contribution from ESP Affiliated National Societies

General data
1. RCPPath advice on histopathology frozen sections and cytology fine needle aspiration during infectious disease outbreaks, Source: The Royal College of Pathologists
2. Safety Considerations in the Laboratory Testing of Specimens Suspected or Known to Contain the Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)
3. Coronavirus disinfection in histopathology

Autopsy Pathology
2. Management of the corpse with suspect, probable or confirmed COVID-19 respiratory infection – Italian interim recommendations for personnel potentially exposed to material from corpses, including body fluids, in morgue structures and during autopsy practice, Source: The Italian Society of Anatomic Pathology and Diagnostic Cytopathology
3. Interim Guidance for Collection and Submission of Postmortem Specimens from Deceased Persons Under Investigation (PUI) for COVID-19

C) Other useful links
https://www.springernature.com/gp/researchers/campaigns/coronavirus
https://jamanetwork.com/journals/jama/pages/coronavirus-alert
https://www.nejm.org/coronavirus
https://www.thelancet.com/coronavirus
https://www.cell.com/2019-nCOV
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https://www.elsevier.com/connect/coronavirus-information-center
https://www.who.int/health-topics/coronavirus
https://www.healthmap.org/covid-19/
https://coronavirus.jhu.edu/
https://www.coronavirus.gov
https://www.nih.gov/coronavirus
COVID 19 INFO UTILI (in Italian)
https://eody.gov.gr/ (in Greek)