

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

Contents

A) General Scientific data	
Histopathology	
Epidemiology	
Clinical Data	
Diagnostics	
Molecular Biology	
Vaccines	
B) Pathology Practice Data including contribution from ESP Affiliated National Societies	
General data	
Autopsy Pathology	
C) Other useful links	

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](#)
4. [Pulmonary pathology of early phase 2019 novel coronavirus \(COVID-19\) pneumonia in two patients with lung cancer](#)
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 [Pathological study of the 2019 novel coronavirus disease \(COVID-19\) through post-mortem core biopsies](#) (not peer reviewed)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](#)
7. [Renal histopathological analysis of 26 postmortem findings of patients with COVID-19 in China](#)
8. [Endothelial cell infection and endotheliitis in COVID-19](#)

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

Epidemiology

9. [A new coronavirus associated with human respiratory disease in China](#)
10. [A pneumonia outbreak associated with a new coronavirus of probable bat origin](#)
11. [Epidemiology and Transmission of COVID-19 in Shenzhen China: Analysis of 391 cases and 1,286 of their close contacts](#) (not peer reviewed)
12. [Case-Fatality Rate and Characteristics of Patients Dying in Relation to COVID-19 in Italy](#)
13. [Characteristics of and Important Lessons from the Coronavirus Disease 2019 \(COVID-19\) Outbreak in China. Summary of a Report of 72 314 Cases from the Chinese Center for Disease Control and Prevention](#)
14. [Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1](#)
15. [Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study](#)
16. [Substantial undocumented infection facilitates the rapid dissemination of novel coronavirus \(SARS-CoV2\)](#)
17. [COVID-19: epidemiology, evolution, and cross-disciplinary perspectives](#)
18. [Projecting the transmission dynamics of SARS-CoV-2 through the postpandemic period](#)
19. [COVID-19 Outbreak Associated with Air Conditioning in Restaurant, Guangzhou, China, 2020](#)

Clinical Data

20. [Asymptomatic carrier state, acute respiratory disease, and pneumonia due to severe acute respiratory syndrome coronavirus 2 \(SARS-CoV-2\): Facts and myths](#)
21. [A dynamic immune response shapes COVID-19 progression](#)
22. [Clinical Features of 69 Cases with Coronavirus Disease 2019 in Wuhan, China](#)
23. [Antibody responses to SARS-CoV-2 in patients of novel coronavirus disease 2019](#)
24. [Quantitative Detection and Viral Load Analysis of SARS-CoV-2 in Infected Patients](#)

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

25. [Coronavirus fulminant myocarditis saved with glucocorticoid and human immunoglobulin](#)
26. [COVID-19 and Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers. What Is the Evidence?](#)
27. [Association of Coronavirus Disease 2019 \(COVID-19\) With Myocardial Injury and Mortality](#)
28. [Cardiovascular Implications of Fatal Outcomes of Patients with Coronavirus Disease 2019 \(COVID-19\)](#)
29. [Cardiac Involvement in a Patient with Coronavirus Disease 2019 \(COVID-19\)](#)
30. [Potential Effects of Coronaviruses on the Cardiovascular System: A Review](#)
31. [Pathogenic T cells and inflammatory monocytes incite inflammatory storm in severe COVID-19 patients](#)
32. [Viral dynamics in mild and severe cases of COVID-19](#)
33. [Characteristics of pediatric SARS-CoV-2 infection and potential evidence for persistent fecal viral shedding](#)
34. [Breadth of concomitant immune responses prior to patient recovery: a case report of non-severe COVID-19](#)
35. [Novel Coronavirus Infection in Hospitalized Infants Under 1 Year of Age in China](#)

Diagnosics

36. [A serological assay to detect SARS-CoV-2 seroconversion in humans](#) (not peer reviewed)
37. [Detection of SARS-CoV-2 in Different Types of Clinical Specimens](#)
38. [Prolonged presence of SARS-CoV-2 viral RNA in faecal samples](#)
39. [Diagnostic detection of Wuhan coronavirus 2019 by real-time RTPCR](#)

Molecular Biology

40. [A Genomic Perspective on The Origin and Emergence of SARSCoV-2](#)
41. [Probable pangolin origin of SARS-CoV-2 associated with the COVID-19 outbreak](#)
42. [SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor](#)

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

43. [The species Severe acute respiratory syndrome related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2](#)
44. [Structural basis for human coronavirus attachment to sialic acid receptors](#)
45. [Structural basis for the recognition of the SARS-CoV-2 by full-length human ACE2](#)

Vaccines

46. [SARS-CoV-2 vaccines: status report](#)

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

General data

1. [RCPATH 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](#)
4. [Biosafety in surgical pathology in the era of SARS-Cov2 pandemia. A statement of the Italian Society of Surgical Pathology and Cytology](#)

Autopsy Pathology

1. [Autopsy practice relating to possible cases of COVID-19 \(2019-nCov, novel coronavirus from China 2019/2020\)](#). Source: The Royal College of Pathologists
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](#)
4. [COVID-19 Autopsy guideline statement from the CAP Autopsy Committee](#)
5. [Autopsy in suspected COVID-19 cases](#)

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

C) Other useful links

1. [WHO](#)
2. [COVID-19 Clinical Management Support System](#). This is a web conference tool launched by the European Commission in order to help frontline clinicians managing COVID19 patients. The aim is to facilitate the clinical decision-making process.
3. [European Centre for Disease Prevention and Control](#). (EU)
4. [Federation of European Academies of Medicine \(FEAM\)](#)
5. [US Government Institutions](#): White House, Federal Emergency Management Agency (FEMA)
6. [Centers for Disease Control and Prevention](#) (USA)
7. [National Institute of Health](#) (USA)
8. [Open COVID-19 Data Curation Group](#). Global map presentation of cases per country with option to present the spread of cases per day.
9. [John Hopkins University](#)
10. [United European Gastroenterology \(UEG\)](#)
11. [The Italian Society of Anatomic Pathology and Diagnostic Cytopathology](#) (in Italian)
12. [National Organization of Public Health-Greece](#) (In Greek)
13. [LTFN, Aristotle University of Thessaloniki, Greece](#). Graphical presentation of number of patients Globally and per various Countries. Figures are shown the S-curves fitting results as well as cases-per-day.

Links to Journals and Editors

14. [Springer Nature](#)
15. [JAMA Network](#)
16. [The New England Journal of Medicine](#)
17. [Science Magazine](#)
18. [The Lancet](#)
19. [Cell Press](#)
20. [Elsevier](#)
21. [Oxford Academic](#)
22. Literature Graph of Scholarly Articles Relevant to COVID-19 Study in three formats: [A](#), [B](#) and [C](#) (metanalytical tool)