

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

Contents

A) General Scientific data	1
Histopathology	1
Epidemiology	2
Clinical Data	2
Diagnostics	3
Molecular Biology	3
Vaccines	4
B) Pathology Practice Data including contribution from ESP Affiliated National Societies	4
General data	4
Autopsy Pathology	4
C) Other useful links	5

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 [Pathological study of the 2019 novel coronavirus disease \(COVID-19\) through post-mortem core biopsies](#) (not peer reviewed)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

9. [Higher prevalence of pulmonary macrothrombi in SARS-CoV-2 than in influenza A: autopsy results from ‘Spanish flu’ 1918/1919 in Switzerland to Coronavirus disease 2019](#)

Epidemiology

1. [A new coronavirus associated with human respiratory disease in China](#)
2. [A pneumonia outbreak associated with a new coronavirus of probable bat origin](#)
3. [Epidemiology and Transmission of COVID-19 in Shenzhen China: Analysis of 391 cases and 1,286 of their close contacts \(not peer reviewed\)](#)
4. [Case-Fatality Rate and Characteristics of Patients Dying in Relation to COVID-19 in Italy](#)
5. [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](#)
6. [Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1](#)
7. [Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study](#)
8. [Substantial undocumented infection facilitates the rapid dissemination of novel coronavirus \(SARS-CoV2\)](#)
9. [COVID-19: epidemiology, evolution, and cross-disciplinary perspectives](#)
10. [Projecting the transmission dynamics of SARS-CoV-2 through the postpandemic period](#)
11. [COVID-19 Outbreak Associated with Air Conditioning in Restaurant, Guangzhou, China, 2020](#)

Clinical Data

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

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

6. [Coronavirus fulminant myocarditis saved with glucocorticoid and human immunoglobulin](#)
7. [COVID-19 and Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers. What Is the Evidence?](#)
8. [Association of Coronavirus Disease 2019 \(COVID-19\) With Myocardial Injury and Mortality](#)
9. [Cardiovascular Implications of Fatal Outcomes of Patients with Coronavirus Disease 2019 \(COVID-19\)](#)
10. [Cardiac Involvement in a Patient with Coronavirus Disease 2019 \(COVID-19\)](#)
11. [Potential Effects of Coronaviruses on the Cardiovascular System: A Review](#)
12. [Pathogenic T cells and inflammatory monocytes incite inflammatory storm in severe COVID-19 patients](#)
13. [Viral dynamics in mild and severe cases of COVID-19](#)
14. [Characteristics of pediatric SARS-CoV-2 infection and potential evidence for persistent fecal viral shedding](#)
15. [Breadth of concomitant immune responses prior to patient recovery: a case report of non-severe COVID-19](#)
16. [Novel Coronavirus Infection in Hospitalized Infants Under 1 Year of Age in China](#)
17. [Kidney disease is associated with in-hospital death of patients with COVID-19](#)

Diagnostics

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

Molecular Biology

1. [A Genomic Perspective on The Origin and Emergence of SARSCoV-2](#)
2. [Probable pangolin origin of SARS-CoV-2 associated with the COVID-19 outbreak](#)
3. [SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor](#)
4. [The species Severe acute respiratory syndrome related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2](#)
5. [Structural basis for human coronavirus attachment to sialic acid receptors](#)

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

6. [Structural basis for the recognition of the SARS-CoV-2 by full-length human ACE2](#)
7. [Global Spread of SARS-CoV-2 Subtype with Spike Protein Mutation D614G is Shaped by Human Genomic Variations that Regulate Expression of TMPRSS2 and MX1 Genes](#)

Vaccines

1. [SARS-CoV-2 vaccines: status report](#)
2. [Safety, tolerability, and immunogenicity of a recombinant adenovirus type-5 vectored COVID-19 vaccine: a dose-escalation, open-label, non-randomised, first-in-human trial](#)

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](#)
5. [Guidelines of the Hellenic Society of Pathology \(In Greek\)](#)

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

6. [Two distinct immunopathological profiles in autopsy lungs of COVID-19](#)

C) Other useful links

1. [ESP Position Statement “COVID-19”](#)
2. [WHO](#)
3. [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.
4. [European Centre for Disease Prevention and Control](#). (EU)
5. [Federation of European Academies of Medicine \(FEAM\)](#)
6. [US Government Institutions](#): White House, Federal Emergency Management Agency (FEMA)
7. [Centers for Disease Control and Prevention](#) (USA)
8. [National Institute of Health](#) (USA)
9. [Open COVID-19 Data Curation Group](#). Global map presentation of cases per country with option to present the spread of cases per day.
10. [John Hopkins University](#)
11. [United European Gastroenterology \(UEG\)](#)
12. [The Italian Society of Anatomic Pathology and Diagnostic Cytopathology](#) (in Italian)
13. [National Organization of Public Health-Greece](#) (In Greek)

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)