

Special Issue

What's New in Acute Respiratory Distress Syndrome

Message from the Guest Editors

More than 50 years after its first description, acute respiratory distress syndrome (ARDS) still represents one of the main causes of intensive care unit (ICU) admission and mortality. On top of that, the recent COVID-19 pandemic has caused an unprecedented surge of ICU admission of patients with ARDS, as well as an extensive increase in the number of research papers published on this topic. Although the main treatment for ARDS remains symptomatic, several innovative therapies have been proposed based on recent preclinical trials. However, most of the promising candidate therapies have proven ineffective in human studies, possibly as a consequence of the clinical and biological heterogeneity of ARDS, and the inability of clinicians to identify and classify specific sub-phenotypes. This calls for the continuation of preclinical and clinical research on ARDS. This SI aims to outline the recent innovations in the field of ARDS to improve care and develop tailored and effective treatments for patients with ARDS, focused Original Research and Narrative or Systematic Reviews dealing with invasive or non-invasive ventilatory support, lung imaging or respiratory physiology are welcome.

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