



Lung Images of Acute Respiratory Distress Syndrome

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Message from the Guest Editor

Dear Colleagues,

Acute Respiratory Distress Syndrome (ARDS), characterized by non cardiogenic pulmonary edema, is a life threatening disease with a mortality rate approaching 50%. ARDS has no specific treatment, except for the treatment of the causative disease (i.e., antibiotics for pneumonia), and only supportive measures are available, consisting in mechanical ventilation, and eventually, extracorporeal support in more severe cases. Imaging offers pivotal insights into the pathophysiology of the disease, allowing to visualize the “in vivo” anatomy of the disease.

This Special Issue will summarize the state-of-the-art lung imaging, starting with CT scan morphological imaging, exploring the possibility of substituting CT bedside data obtained with ultrasound and EIT and their limitations. Attention will be devoted also to experimental techniques aimed at imaging lung inflammation. Lastly, ARDS must be seen through a broader perspective, including the roles of the heart and mediastinum.





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