



Lung Injury and the Intensive Care Unit: Pathophysiology, Clinical Practice and Treatment for Better Outcomes

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Message from the Guest Editors

Mortality in patients with respiratory failure in the presence of lung injury is still unacceptably high.

The pathophysiology of lung injury is complex, and over recent decades great efforts have been undertaken to better understand the mechanisms behind the disease by using advanced lung monitoring and lung imaging diagnostic techniques. These include:

1. The analysis of the regional distribution of ventilation and of the lung resting volume;
2. Esophageal pressure monitoring to assess the partitioned respiratory mechanics;
3. Diagnostic tools to capture patient drive and effort during assisted mechanical ventilation and non-invasive respiratory support.

This technology aims at supporting clinical practice—which is the everyday system of patient care—to achieve better treatments and consequently better outcomes.

In this Special Issue, we welcome scientific contributions regarding respiratory failure in critically ill patients.





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