



## Respiratory Failure: Pathogenesis, Diagnosis and Treatment

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### Message from the Guest Editor

Respiratory failure is a very common condition in daily clinical practice. The recent coronavirus disease 2019 (Covid-19) pandemic, whose main manifestation is interstitial pneumonia possibly leading to respiratory failure, has demanded the structural and logistical reorganization of hospitals in order to face the emergency. As a consequence, also medical doctors who do not have a specialistic background in the treatment of respiratory failure have been involved in the management of these patients. On the one hand, the diagnosis of respiratory failure is simple and readily made by performing an arterial blood gas analysis (ABG) and is conventionally established in the presence of arterial oxygen tension ( $\text{PaO}_2$ )  $< 60$  mmHg, arterial carbon dioxide tension ( $\text{PaCO}_2$ )  $> 45$  mmHg, or both. However, the management of these patients requires a good understanding of cardiopulmonary physiology, which largely goes beyond an ABG evaluation. Thus, considering its pathophysiological and treatment complexity, respiratory failure represents a hot topic in research.

This Special Issue invites original research articles and reviews on the various aspects of respiratory failure.





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