

## Special Issue

# Respiratory Failure: Pathogenesis, Diagnosis and Treatment

### 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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### Guest Editor

Prof. Dr. Fabiano Di Marco

1. Department of Health Sciences, University of Milan, Milan, Italy
2. ASST Papa Giovanni XXIII, Bergamo, Italy

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### Deadline for manuscript submissions

closed (31 March 2022)



## Diagnostics

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*Diagnostics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[diagnostics@mdpi.com](mailto:diagnostics@mdpi.com)

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You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Andreas Kjaer

Department of Clinical Physiology, Nuclear Medicine & PET National University Hospital, Rigshospitalet, University of Copenhagen, Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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