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DESCRIPCIÓN DEL PRODUCTO

Invasive ventilation is a frequently used lifesaving intervention in critical care. The ERS Practical Handbook of Invasive Mechanical Ventilation provides a concise “why and how to” guide to invasive ventilation, ensuring that caregivers can not only apply invasive ventilation, but obtain a thorough understanding of the underlying principles ensuring that they and their patients gain the most value from this intervention.

The editors have brought together leading clinicians and researchers in the field to provide an easy-to-read guide to all aspects of invasive ventilation. Topics covered include: underlying physiology, equipment, invasive ventilation in specific diseases, patient monitoring, supportive therapy and rescue strategies, inhalation therapy during invasive ventilation, weaning from invasive ventilation and technical aspects of the ventilator.

Índice del libro ERS Practical Handbook of Invasive Mechanical Ventilation 1st edition

Preface

Get more from this Handbook

List of abbreviations

Conflicts of interest

1. Physiology

Mechanisms of hypoxaemia and hypercapnia
Respiratory mechanics
Effects of invasive ventilation on the lungs
Effects of invasive ventilation on the respiratory muscles

2. Getting the basics right: artificial airway and ventilator modes

Artificial airways
Controlled modes
Partially supported modes
Proportional modes
Automated modes

3. Getting the basics right: mechanical ventilation in specific diseases

Invasive ventilation in ARDS
Invasive ventilation in obstructive airway disease
Invasive ventilation in interstitial lung diseases

4. Monitoring the ventilated patient

Monitoring oxygenation
Monitoring ventilation
Monitoring respiratory mechanics
Monitoring breathing effort
Electrical impedance tomography
Monitoring lung aeration: lung ultrasound
Monitoring respiratory muscles: respiratory muscle ultrasound
Monitoring lung pathology: chest radiography and computed tomography
Monitoring patient-ventilator interaction

5. Supportive therapy and rescue strategies in hypoxaemic failure

Extracorporeal lung support
Prone position in ARDS
Recruitment manoeuvres
Pulmonary vasoactive drugs

6. Inhalation therapy in ventilated patients

Inhalation therapy in ventilated patients

7. Weaning from mechanical ventilation

Weaning definition and outcome
Weaning protocols and automatic modes
Failure to wean and causes for difficult weaning
Weaning: a practical approach

Tracheostomy

Physiotherapy and speech therapy in ventilated patients

8. Technical aspects of the ventilator

Technical aspects of the ventilator

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