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Advance directives, personal resuscitation plans, end-of-life instructions; Not for resuscitation; Withdrawing and withholding intervention; Conclusion; References; Chapter 3: Physiological Monitoring of Infants and Children in the Intensive Care Unit; Introduction; General safety and preparation before use; Electrocardiographic (ECG) monitoring; Five-electrode limb leads plus one precordial lead combination; Troubleshooting ECG monitoring (Table); Twelve-lead ECG recording (Figure); Atrial wire ECG recordings; Invasive pressure monitoring; Maintaining line patency Arterial lines and monitoring Physiology of the arterial pressure-pulse wave (arterial waveform) (Figure); Central venous pressure (CVP) monitoring; Pulse oximetry; Capnography and ETCO₂ monitoring; Near-infrared spectroscopy; Conclusion; References; Section 2: Systems Approach; Chapter 4: Care of an Infant or Child with a Respiratory Illness and/or the Need for Respiratory Support; Introduction; Embryology; Transition to extra-uterine respiratory function; Brief overview of respiratory physiology; The role of surfactant; Gas exchange; Gas transport; Control of respiration Central chemoreceptors Peripheral chemoreceptors; Lung stretch receptors; Joint and muscle receptors; Irritant receptors; J receptors (juxtacapillary receptors); Ventilation perfusion ratio and mismatch; Pulmonary volumes and capacities; Respiratory assessment; Physical inspection; Cyanosis; Palpation; Crepitus; Pleural friction rub; Percussion; The respiratory rate and rhythm; Auscultation; The chest X-ray; Blood gas analysis; Buffering system; Compensatory mechanisms; Electrolytes and acid base balance; Normal blood gas values; Blood gas interpretation Systemic effects of a respiratory acidosis

Sommario/riassunto

The needs of critically ill children are unique and highly specialized. Paediatric Intensive Care Nursing is an essential manual of care and an invaluable resource to all those involved in the care of critically ill children and young people. Covering all the key aspects of pediatric intensive care, it is a fully comprehensive textbook which provides an evidence-based and up-to-date guide for all nurses who work with critically ill children. Paediatric Intensive Care Nursing is divided into four user-friendly sections: The first section looks at the general ba