

Neugeborenen-Notfälle

Erstversorgung und Intensivmedizin - Online: Refresher-Fragen

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Geleitwort III

Newborn medicine is aptly characterized as a discipline of emergencies. Requiring swift but finely tuned, well-tempered interventions necessitated by the fragile, vulnerable nature of babies, its practice best applies the guiding principle of »first, do no harm«. The remarkable improvement in the survival rate of progressively smaller premature infants has transformed the practice of newborn medicine into a delicate art that requires expert teaching in the form of simulation, modeling, and hands-on demonstration. Further, understanding the pathophysiology and underlying biology of the critical conditions that affect every developing organ system of the newborn is crucial to the proper diagnosis and application of therapy. Novel paradigms of critical thinking, new diagnostics, and innovative therapies are required to advance the treatment of conditions such as neuronal, cardiorespiratory, and intestinal injuries that often represent the most challenging emergencies in neonatal care. Rapid discoveries in the fields of molecular medicine, genetics, epigenetics, and regenerative medicine, combined with an explosion of new technologies and devices, have resulted in significant advances in medical care, but they have also increased the complexity of care. Optimal medical management requires the interdisciplinary collaboration of several clinical specialists, effective teamwork, and the use of information technology to apply these discoveries and opti-

mize the medical or surgical care of the critically-ill neonate.

Neonatal Emergencies coalesces all of the above principles associated with teaching, innovative technologies, and cutting-edge scientific discovery, and applies them to the emergency care of critically-ill newborns. The practical management guidelines delineated in this volume are presented in the context of the relevant pathophysiology and recent literature, and are accompanied by cautionary notes on the potential pitfalls, complications, and priorities that require special emphasis. Detailed, step-by-step instructions for key procedures, which include color photographs of the anatomy, tools, and instruments required for the emergent care of the infant, make this an invaluable reference guide. There is no other book of its kind that combines the practical aspects of emergency newborn critical care with advanced, state-of-the-art scientific principles and evidence-based medicine. This comprehensive teaching tool is an excellent resource for all medical professionals at every level of training who are invested in the care of the critically-ill neonate.

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