

33rd International Conference on Pediatrics and Neonatology

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Webinar

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Enhancing neonatal outcomes: integrating evidence-based best practices in delivery room resuscitation

Statement: Neonatal resuscitation is a time-sensitive and high-stakes intervention essential for reducing neonatal morbidity and mortality. Despite advancements in neonatal care, gaps remain in the consistent application of resuscitation protocols worldwide. This presentation explores best practices in neonatal resuscitation with a focus on the UK's standardized training and evidence-based guidelines. This study involved a retrospective review of 150 neonatal resuscitation cases across three tertiary care centers in the UK over a 12-month period. Data was collected on the timeliness and accuracy of interventions, team dynamics, and adherence to the latest Neonatal Life Support (NLS) protocols. In addition, a survey was conducted among 80 neonatal healthcare professionals to evaluate their preparedness, training adequacy, and perceived challenges during resuscitations. The findings indicated a 90% adherence rate to updated NLS guidelines, with significant improvements noted in outcomes when pre-resuscitation briefing and clear team roles were implemented. Delayed initiation of ventilation beyond the golden first minute was the most common deviation. Structured training and regular simulation-based refreshers showed a strong correlation with improved response times and neonatal outcomes. Effective neonatal resuscitation hinges on adherence to protocols, team coordination, and frequent hands-on training. The UK model, with its emphasis on structured NLS courses and multidisciplinary simulation training, offers a replicable framework for improving outcomes globally. Continued investment in staff education and real-time feedback mechanisms can bridge remaining gaps and enhance the quality of neonatal care.

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Biography

Emily Carter is a Consultant Neonatologist at St. Mary's Hospital in London, United Kingdom. With over 15 years of clinical experience in neonatal intensive care, she is a recognized leader in neonatal resuscitation training and practice. Dr. Carter has contributed to national guidelines on neonatal emergency care and serves as a certified instructor for the UK's Neonatal Life Support (NLS) program. Her research interests include neonatal stabilization at birth, simulation-based medical education, and healthcare system improvements in newborn care delivery. She regularly leads training workshops for healthcare professionals and has presented her work at international pediatric and neonatal conferences. Dr. Carter is passionate about global health initiatives and currently collaborates with neonatal teams in low-resource settings to implement structured resuscitation programs. Her commitment to evidence-based practice and team-based care continues to shape the landscape of neonatal resuscitation in the UK and beyond.

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