

3<sup>rd</sup> Annual Congress and Medicare Expo on

# TRAUMA & CRITICAL CARE

March 13-14, 2017 London, UK



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### Think sepsis! Think intraosseous!

**Overview:** This presentation will use an interactive case study approach to discuss the use of delivering evidence based sepsis interventions through intraosseous (IO) access. The presentation will evaluate the evidence behind the use of achieving fluid resuscitation, antibiotic administration and IO sampling in a hypotensive difficult vascular access critically ill sepsis patient. Published literature will be innovatively evaluated and woven into the clinical case study. This will refer to the recently published 2016 revised International sepsis guidelines that recommend the use of IO in providing an alternative route for administering antibiotics and fluids that achieve comparable antibiotic plasma concentrations compared to IV.

**Originality:** Originality will focus on the use of achieving sepsis management through the IO route where conference papers nearly exclusively concentrates upon IV or central venous approaches in sepsis management. IO vascular access is traditionally viewed as an intervention reserved for cardiac arrest however this presentation will challenge this concept in providing novel approaches to delivering time critical sepsis treatment through the IO route.

**Applicability to Critical & Emergency Care:** Sepsis is one of the most frequent causes of clinical deterioration that often requires critical care intervention and admission. All critical care & emergency providers need to have the knowledge and skills to effectively treat sepsis patients. Sepsis patients require early vascular access and treatment and this presentation will share with practitioners that the IO route is an effective alternative to IV use in the critically ill patient with sepsis.

**Impact for Improving Patient Care:** Globally sepsis is one of the major avoidable deaths. The evidence shows that delays in antibiotic administration & fluid therapy increases mortality. In difficult vascular access situations, the IO route can provide a timely alternative to IV access to ensure that antibiotic and fluid resuscitation is commenced early that will provide direct improvements to patient mortality and morbidity from sepsis. The presentation will challenge practitioner's perceptions that IO can provide an effective alternative to IV access in the critically ill.

### Biography

Tim Collins has 20 years of experience in Critical Care. He holds the position of Consultant Nurse, Lead Nurse, Charge Nurse, ICU Educator and Senior Lecturer. He is currently a British Association of Critical Care Nurses (BACCN) elected national board member and Editorial Board Member of *Nursing in Critical Care Journal* (Wiley). He has given a number of presentations at European & international conferences and has published a number of papers in peer reviewed journals and book chapters. He completed his Doctorate Degree and MSc in Critical Care. He is an Instructor in both Adult and Pediatric Advanced Life Support. His interests include Sepsis, Clinical Shock, Vascular Access, Resuscitation, Organ Donation and Hemodynamic Monitoring.

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