



## Emirates Pediatric and Neonatal Intensive Care Conference

مؤتمر الإمارات للعناية الحرجة لطب الأطفال  
والأطفال الخدج

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### Hemodynamic Assessment Workshop

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#### Course Faculty

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The hemodynamic assessment and continuous monitoring is the core of ICU monitoring to provide adequate blood pressure as well as tissue perfusion and oxygen delivery and to avoid organ damage and death. During the last years, clinicians and industry developed a big number of clinical examinations, algorithms, and devices for non-invasive and invasive hemodynamic monitoring. This workshop presents all relevant clinical, laboratory, and technical methods for hemodynamic monitoring from neonates to young adults. We will compare all noninvasive and invasive monitoring, and we provide assistance to choose an appropriate method according to the age of your patient and the severity of the clinical condition.

#### Target Audience

- PICU specialized clinicians
- PICU nurses
- All Paediatricians, who take care of severe or critically ill patients

#### Goals of the course

- To present principles of hemodynamic physiology and pathophysiology
- To present clinical assessment and interpretation of the findings
- To present all relevant technical solution for hemodynamic assessment and monitoring
- To compare the methods and provide assistance to choose the appropriate method

#### Workshop Agenda

- Introduction to the workshop
- Physiology and pathophysiology of the hemodynamic
- Clinical assessment and biomarkers
- Basic non-invasive monitoring (NIBP, ECG, temperature, pulse oximetry)
- Basic invasive monitoring (IBP, CVP, PAC, LAP)
- Advanced non-invasive technics (Functional Echocardiography, USCOM©, NIRS, Bio-Impedance Cardiography)
- Advanced invasive monitoring (central venous saturation, thermodilution, pulse contour analysis like PICCO© or Vigileo©, FlowTrac©, LidCO)
- Comparison of the methods and guidelines
- Hands-on practice for non-invasive technics
- Q/A

