Introducing HD-ICG™
High Definition-Impedance CardioGraphy (HD-ICG) for ODM+

- Non-invasive
- Easy to use
- Cost-effective

Deltex Medical now offers a range of haemodynamic solutions to suit any patient and surgery type:

- Oesophageal Doppler Monitoring
- Calibrated Arterial Waveform Analysis
- Non-invasive HD-ICG

HD-ICG is suitable for a wide range of applications:

- Emergency Department
- Awake surgery
- Pre/Postoperative monitoring
- Intensive Care/HDU
- Ward

HD-Impedance CardioGraphy (HD-ICG) provides continuous and accurate measurements of Cardiac Output and other haemodynamic parameters. HD-ICG disposable electrodes are placed on the neck and chest. The electrodes transmit and detect electrical and impedance changes in the thorax. After stabilising, using HD-Z signal filter technology, these electrical currents are then utilised to measure and calculate haemodynamic parameters, including:

- Stroke Volume/Stroke Volume Index
- Cardiac Output/Cardiac Index
- Heart Rate
- Ventricular Ejection Time, corrected for heart rate (VETc)

The authors report:

“We conclude that the PhysioFlow provides a clinically acceptable and non-invasive evaluation of cardiac output under these conditions.”


The authors report:

“These different patterns of ICG waveform are relatively easy to recognise and can be cost-effectively and quickly obtained to reliably distinguish between normal and abnormal cardiac function.”

Terblanche et al. Decreased Cardiovascular Hemodynamics as Possible Mechanisms of Hypotension during Cesarean Delivery under Spinal Anesthesia: Role of Thoracic Impedance Cardiography. Society of Obstetrics Anesthesiology and Perinatology (SOAP), March 2008 (abstract).

The authors report:

“We propose that a continuous monitoring of these cardiovascular functions (i.e. hemodynamics) may provide insights into the mechanism(s) of hypotension during a Cesarean delivery under spinal anesthesia.”


The authors report:

“This study demonstrated that non-invasive TEB cardiohaemodynamic parameters can differentiate between cardiac and non-cardiac-related causes of dyspnoea in ED patients presenting with acute breathlessness.”

For further information, please contact us: 01243 774837 to locate your Deltex Medical Regional Sales Manager or Clinical Sales Specialist.