



# Advanced Haemodynamic Monitoring

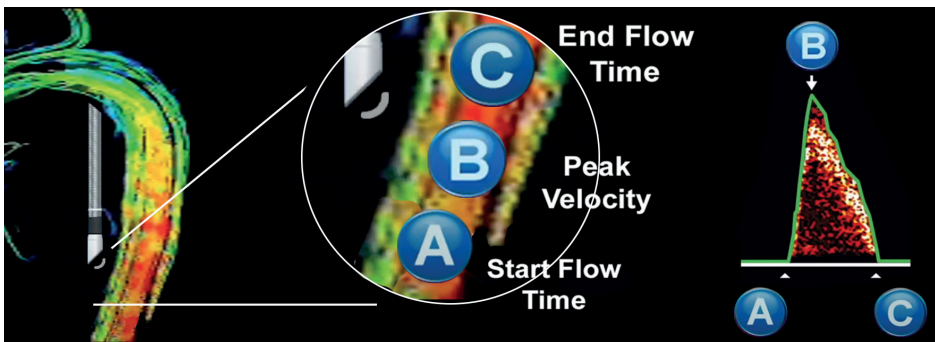


# Mission Zero

Eliminating postoperative complications  
by haemodynamic management just got easier



## Precise



TrueVue delivers the most precise real-time picture of patient haemodynamics. Built upon the rich legacy of Oesophageal Doppler monitoring (ODM) technology, TrueVue constructs a Doppler flow image. It measures the start, end and peak blood flow velocity directly from the aorta. As well as continuously measuring Stroke Distance (VTI), as the basis of all other parameters.

# Proven

THE FEDORA study is the largest positive multicentre RCT published thus far on the haemodynamic management of patients during surgery using ODM. Goal-Directed Haemodynamic Therapy (GDHT) using the Deltex system resulted in statistically significant 75% reduction in post-op complications. Median length of hospital stay was reduced by two days<sup>1</sup>.

## Adapted Summary of Key Complications - Fedora Trial

Moderate and severe complications (n GDHT: 209 vs n Control= 211)	GDHT n(%)	Control n(%)	p-value
Patients with at least one moderate or severe complication	18(8.61%)	35(16.58%)	0.018"
<b>Subgroups by surgical procedure</b>			
Gastrointestinal (150 vs 154)	11 (7.33%)	25 (16.23%)	0.020"
Urology (48 vs 38)	6(12.5%)	5(13.16%)	0.999
Gynaecological (11 vs 19)	1 (9.09%)	5(26.32%)	0.372
<b>Approach</b>			
Open(104 vs 102)	13(12.5%)	19(18.63%)	0.253
Laparoscopic (105 vs 109)	5 (4.76%)	16(14.68%)	0.020·
<b>Type of complication</b>			
AKI	<b>3(1.44%)</b>	<b>18 (8.53%)</b>	<b>0.001"</b>
ARDS	1 (0.48%)	12 (5.69%)	0.003"
Cardiopulmonary Oedema	0(0%)	11 (6.16%)	<0.001·
Infection Source Uncertain	0(0%)	13(6.16%)	<0.001·
Pneumonia	4(1.91%)	18(8.53%)	0.003"
Surgical Site Infection (Superficial)	<b>2(0.96%)</b>	<b>10 (4.74%)</b>	<b>0.036'</b>
Surgical Site Infection (Deep)	<b>4(1.91%)</b>	<b>17(8.06%)</b>	<b>0.006"</b>



## ...and now Portable

Delivering advanced haemodynamic monitoring across a wide range of clinical settings.

# Introducing

## DoppLink



This all new patient interface cable enhances signal processing. The lightweight yet robust unit clips to drapes for anchorage. It can also be stored in the rear accessories basket or optional roll stand basket.

## TrueVue PressureWave

The most stable and extensively researched Pulse Contour Analysis algorithm (PCA) currently available<sup>2</sup>.

Easily calibrated and recalibrated in under 15 seconds, using the TrueVue Doppler signal.

## Advanced Haemodynamic Monitoring Reinvented

	ODM+	TrueVue
Supported by Exceptional Evidence Base	Yes	Yes
Accuracy and Precision	Yes	Yes
Signal Acquisition and Retention	Yes	Improved
Combined Flow and Pressure for Doppler and Calibrated PCA	Yes	Yes
Intuitive Navigation	Yes	Improved
Visibility from all angles	Yes	Improved
Portability	Yes	Yes
Integral battery	No	Yes
Battery life	N/A	1.5 - 2 Hrs



## Features

**Gold standard flow-based haemodynamic measurements** – precise, real-time, beat to beat measurement of preload, afterload and contractility indicators, including Stroke Volume and Cardiac Output

**Improved signal acquisition and retention** - enhanced ease of use

**Doppler-Calibrated Pulse Contour Analysis** - accurate longer-term management of patients from the operating room to the ICU

**Combined flow and pressure parameters** - greater insight into cardiac function and management of the circulation

**HD Touchscreen** - intuitive navigation, enhanced user control and visibility

**Battery-power with carry handle** - portable throughout the clinical pathway



Contact Form



## Deltex Academy

Knowledge is power and so it is with Deltex Medical's uniquely capable technology. The company's reputation for providing training and support is grounded in a desire to make sure clinicians are ready to exploit the full potential of its haemodynamic monitoring systems.

The Deltex Medical Learning Academy hosts an abundance of resources that support your decision making accompanied by a system that is precise, proven and delivers real-time continuous cardiac output monitoring. The Academy caters for new and experienced clinical staff from all backgrounds.

Academy



## Experts in Haemodynamics

Deltex Medical  
Chichester  
West Sussex  
PO19 8TX  
UK  
+44 1243 773823  
www.deltexmedical.com



Developed and manufactured in the UK

1. Calvo-Vecino, J. M., Ripollés-Melchor, J., Mythen, M. G., Casans-Francés, R., Balik, A., Artacho, J. P., ... Bergese, S. (2018). Effect of goal-directed haemodynamic therapy on postoperative complications in low-moderate risk surgical patients: a multicentre randomised controlled trial (FEDORA trial). *British Journal of Anaesthesia*, 120(4), 734–744. <https://doi.org/10.1016/j.bja.2017.12.018>

2. James X. Sun, MEng, Andrew T. Reisner, MD, Mohammed Saeed, MD, PhD, Thomas Heldt, PhD, and Roger G. Mark, MD, PhD  
Division of Health Sciences and Technology (JXS), Massachusetts Institute of Technology, Massachusetts General Hospital, Boston, MA; Department of Emergency Medicine (ATR), Division of Health Sciences and Technology, Boston, MA; Division of Health Sciences and Technology (MS), Massachusetts Institute of Technology, Philips Medical Systems, Boston, MA; Lab for Electromagnetic & Electronic Systems (TH), Massachusetts Institute of Technology, Boston, MA; Division of Health Sciences and Technology (RGM), Massachusetts Institute of Technology, Boston, MA.