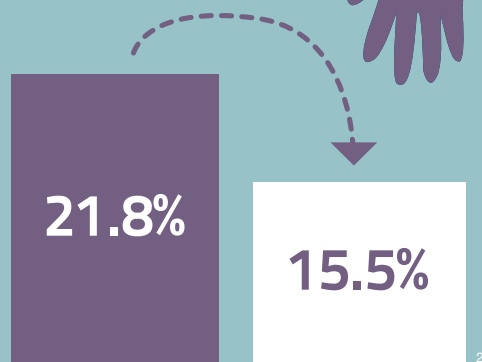


# How to save lives in emergency laparotomy

**ELPQUIC**  
PATHWAY SAVES  
  
NEARLY **6/100**  
**LIVES**

**PROTOCOL**  
**REDUCES**  
**MORTALITY**



**15%**  
National  
mortality rate <sup>3</sup>

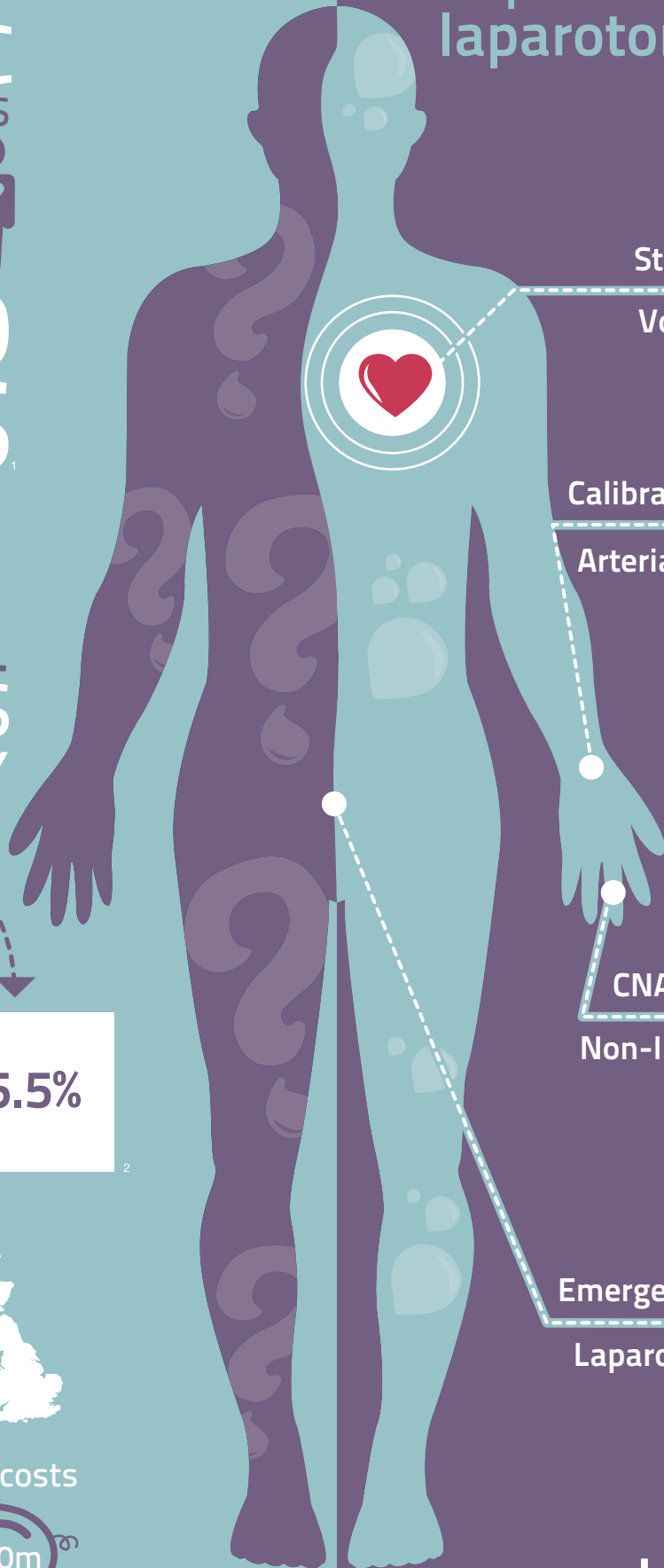


NHS costs

**60.000**  
EL's performed  
per year



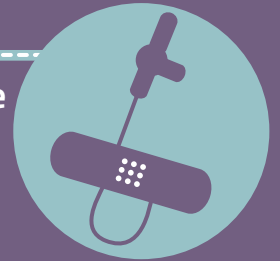
# LiDCO hemodynamic monitoring improves outcomes when used as part of an emergency laparotomy pathway



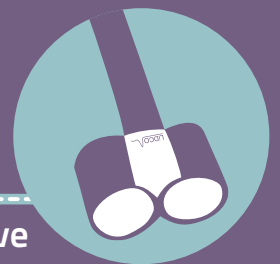
Stroke  
Volume



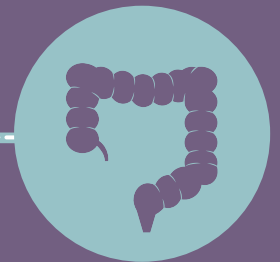
Calibrate  
Arterial Line



CNAP  
Non-Invasive



Emergency  
Laparotomy



**LiDCO**  
Hemodynamic Monitoring

# Clinical papers showing improved outcome on 12,000 patients

## Use of a pathway quality improvement care bundle to reduce mortality after emergency laparotomy

### Patient Population

Emergency laparotomy surgery

### LiDCO Monitor

LiDCOrapid as part of an evidence-based care bundle.

### Trial Design

Before v after a care bundle introduction.

### Outcome Impact

Reduced mortality – 5.97 more lives per 100 patients were saved.



<sup>1</sup> Huddart S, Peden CJ, Swart M, McCormick B, et al. Use of a pathway quality improvement care bundle to reduce mortality after emergency laparotomy. Br J Surg. 2014;102(1):57-66 doi: 10.1002/bjs.9658

## Multidisciplinary perioperative protocol in patients undergoing acute high-risk abdominal surgery

### Patient Population

High-risk abdominal surgery

### LiDCO Monitor

LiDCOrapid

### Trial Design

The acute high-risk abdominal (AHA) study was a controlled single-centre intervention study in an unselected consecutive cohort undergoing AHA surgery.

### Outcome Impact

The 30-day mortality rate was 15.5 per cent in the intervention cohort compared with 21.8 per cent in the control cohort ( $P=0.005$ ; relative risk reduction 29 per cent). The 180-day mortality was 22.2 per cent in the intervention cohort compared with 29.5 per cent in the control cohort ( $P=0.004$ ).



<sup>2</sup> Tengberg LT, Bay-Nielsen M, Bisgaard T, Cihoric M, Lauritsen MI, Foss NB. Multidisciplinary perioperative protocol in patients undergoing acute high-risk abdominal surgery. Br J Surg. 2017 Mar;104(4):463-471

<sup>3</sup> Barrow E, Anderson ID, Varley S, Pichel AC, Peden CJ, Saunders DI, et al. Current UK practice in emergency laparotomy. Ann R Coll Surg Engl. 2013;95:599-603

<sup>4</sup> Incidence and estimated annual cost of emergency laparotomy in England: is there a major funding shortfall? S. L. Shapter, M. J. Paul and S. M. White



**Contact us**  
on how LiDCO  
fits into your  
EL pathway

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