### Enhanced Recovery Canada (ERC) ERAS for colorectal surgery

# Perioperative fluid and hydration management recommendations

Gabriele Baldini



Putting patients first, improving patient safety.

#### **Disclosure**

#### Dr. Gabriele Baldini

has an affiliation with the following organizations that could be perceived as a real or apparent conflict of interest in the context of this presentation:

#### Edwards Life inc. Canada

Research grant (2014)

**Travel funding and consulting fees (2017-2018)** 

#### Merck Canada

**Travel funding and consulting fees (2018)** 



Putting patients first, improving patient safety.

patientsafetyinstitute.ca

## The process

## "Adopt", "Adapt", "De Novo"

1.Feldheiser et al. Enhanced Recovery After Surgery (ERAS) for gastrointestinal surgery, part 2: consensus statement for anaesthesia practice. Acta Anaesthesial Scand. 2016 Mar;60(3):289-334

2. Carmichael et al. 2017. Clinical practice guideline for enhanced recovery after colon and rectal surgery from the American Society of Colon and rectal Surgeons (ASCRS) and Society of American Gastrointestinal and Endoscopic Surgeons (SAGES). Surg Endosc., 31(9):3412-2436. PMID 28776285.

3. Thiele et al. 2016. American Society for Enhanced Recovery (ASER) and Perioperative Quality Initiative (POQI) joint consensus statement on perioperative fluid management within an enhanced recovery pathway for colorectal surgery. Perioper Med. (London), 5:24. PMID 27660701.

4. Alfonsi et al. 2014. French Guidelines for enhanced recovery after elective colorectal surgery. J Visc Surg., 151(1):65-79. PMID 24378143.

5. Gustafsson et al. 2012. Guidelines for perioperative care in elective colonic surgery: Enhanced Recovery After Surgery (ERAS) Society recommendations. World J Surg., 37(2):259-84. PMID 23052794.

6. Nygren et al. Guidelines for Perioperative Care in Elective Rectal/Pelvic Surgery: Enhanced Recovery After Surgery (ERAS) Society Recommendations World J Surg (2013) 37:285–305

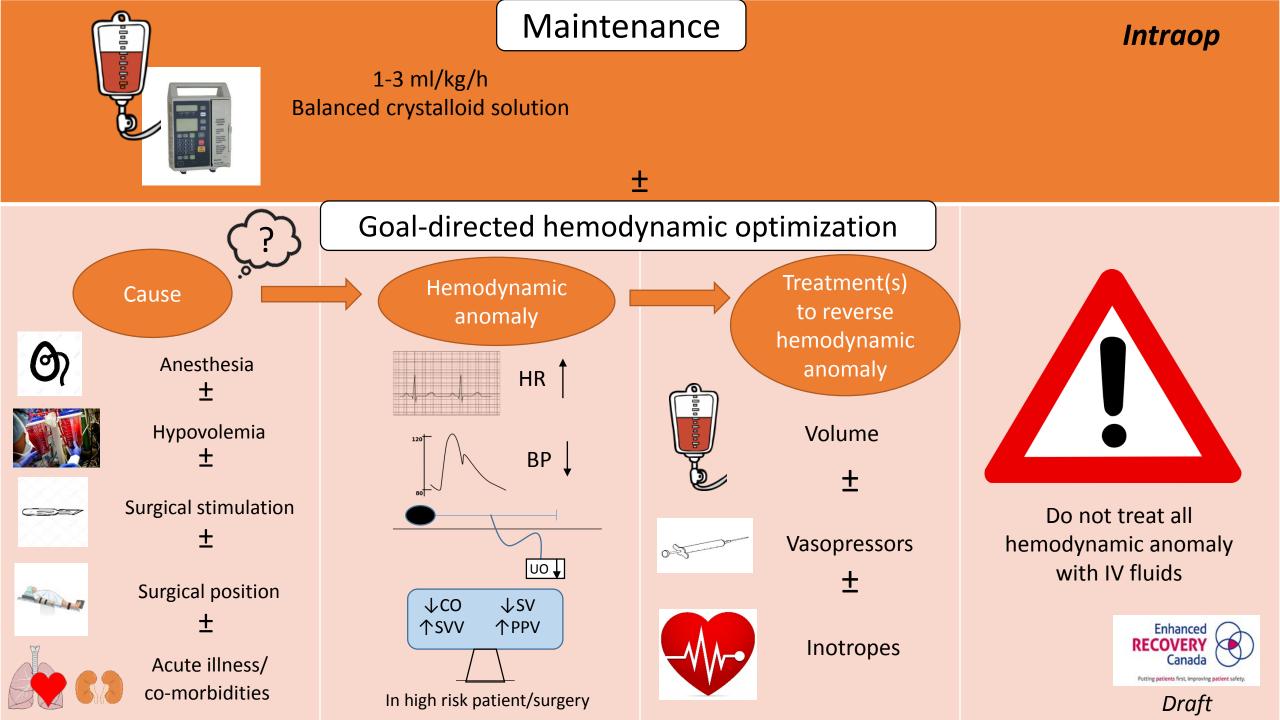
7. Lassen et a. 2009. Consensus Review of Optimal Perioperative Care in Colorectal Surgery. Enhanced Recovery After Surgery (ERAS) Group Recommendations. Arch Surg., 144(10). PMID 19841366

8. Available Canadian ERAS Perioperative fluid management protocols



Putting patients first, improving patient safety.







Maintenance of daily H<sub>2</sub>O and electrolyte requirements Oral intake tolerated Oral intake NOT tolerated 25-30 ml/kg/day H<sub>2</sub>O 0.7 ml/kg/h STOP (KVO) K<sup>+</sup> Ca<sup>2+</sup> Cl-Na<sup>+</sup> Mg<sup>2+</sup> Postop Replace when indicated (PO/IV)

Signs of hydration and hypovolemia Fluid balance Out (Including H<sub>2</sub>O intake) Weight gain until diet is tolerated MI. Enhanced RECOVERY Canada Putting patients first, improving patient safet Draft

**Monitor & document daily** 

