

Anaesthesia for Laparoscopic colorectal surgery

April 2017

Pre-operative counselling on day of surgery	<p>During the anaesthetic consultation on the day of surgery please state the following to the patient</p> <p>'That the patient is part of an enhanced recovery programme design to reduce complications and shorten hospital stay'</p> <p>'The anaesthetic is designed specifically to provide good pain relief, prevent nausea and allow them to be mobilising and drinking as soon as possible after the operation'</p> <p>'On return to the ward they will be fit and safe enough to sit out of bed'</p>
Pre-operative oral fluids prescribed	<p>If the surgery is going to be greater than 2 hours prescribe oral water on the drug chart. If the patient is fasted within the rule 'clear fluid up to 2 hours before' they should arrive for theatre euvolaemic.</p>
Induction	<p><u>As per Anaesthetist preference but consider:</u></p> <ul style="list-style-type: none">- 0.25-0.5mg/kg of ketamine iv unless contraindicated.<ul style="list-style-type: none">o Analgesic (NMDA antagonist)o Reduced opioid use in first 24 hourso Co-induction agent reducing induction related hypotension- 2mg/kg iv lignocaine bolus (and followed by infusion 2mg/kg/hour if anaesthetist happy)<ul style="list-style-type: none">o Opioid sparing analgesic with potential to reduce ileus <p><u>Pre-induction low dose Sub-Arachnoid Block as per Analgesia section below</u></p>

Maintenance	<p>Oxygen/air/Desflurane or TIVA</p> <p>Avoid remifentanyl infusions <u>if possible</u> and maintain relaxation with intermittent NDMR.</p> <p>Spinal anaesthesia, ketamine and lignocaine should provide adequate analgesia without hyperalgesia or respiratory depression on emergence.</p>
Intraoperative Fluids	<p>Patient should be euvolaemic. Give maintenance fluid during operation with overall total of 4ml/kg/hr. If bleeding replace using goal directed therapy measuring PPV/SVV and noting response</p>
Intraoperative blood pressure management	<p>Hypotension on induction and during maintenance is primarily the result of vasodilation, negative inotropy and postural change not intravascular depletion. Maintain BP with a vasopressor infusion and boluses (phenylephrine or metraminol). Consider:</p> <p>10mg phenylephrine in 50ml commenced at 10ml/hr immediately before induction and titrated to effect.</p>
Intra- and post-operative analgesia	<p><u>Pre-induction Spinal.</u></p> <p>Minimise local anaesthesia used to minimise post-operative motor block and hypotension. Consider:</p> <p>2ml 0.5% Heavy Marcain and 200- 300mcg preservative free morphine.</p> <p>Complete PCA chart indicating intrathecal opioid given. (This will also help track PACU and post-operative pain scores and nausea)</p> <p><u>Bilateral TAP (Surgeon) immediately before or after closure</u></p> <p>To contribute to post-operative analgesia (reduce/ avoid systemic opioids)</p> <p>2 x 20ml 0.25% Levobupivacaine.</p> <p><u>Intra-operative Paracetamol</u></p> <p>Consider bolus 2g iv if no significant liver or renal disease and weight > 50kg. Omit next dose if within 6 hours of administration.</p>

	<p><u>Post-operative analgesia</u></p> <p>PACU</p> <p>'Rescue analgesia' – Morphine/Oxycodone 1-10mg iv</p> <p>Ward</p> <p>Paracetamol 1g iv/po qds</p> <p>Tramadol 50-100mg iv/po qds</p> <p>Oromorph/Oxycodone 5 -10mg 2 hourly prn</p> <p>Avoid PCA unless analgesia not adequate after 10mg iv morphine/oxycodone in PACU</p>
PONV	<p>Dexamethasone 6.6mg on induction</p> <p>Ondansetron 8 mg 30 minutes prior to emergence</p> <p>PACU/Ward</p> <p>Ondansetron 4mg tds max 12mg in 24 hours</p> <p>Cyclizine 50mg tds</p>
Post-operative fluids	<p>Prescribe 1ml/kg/hr for 12 hours and 1 x 250ml bolus stat if systolic BP 20% below normal</p>
Anaesthetist to PACU and PACU to ward handover	<p>Please document:</p> <p>1 hour after returning to the ward the patient is safe to sit out of bed with assistance (Check BP before mobilising).</p> <p>Please sit patient out of bed for 1-2 hours.</p>

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