

Solutions

2.1

- Superior mesenteric (midgut ends at the distal transverse colon).

2.2

- Foregut band (T5–9) – epigastric.

2.3

- No: visceral supply above the line carries no sharp pain.

3.1

- Gallbladder: foregut/coeliac territory → epigastric band.
- The shoulder tip is C4 via the phrenic nerve: the gallbladder's inflamed peritoneal surface shares the segment.
- Early visceral pain is midline and dull (shared segment); imaging (ultrasound) localises the organ the band only bands.

3.2

- Painless fresh bleeding implies visceral supply: above the pectinate line.
- Inferior mesenteric artery; its superior rectal branch.
- Below the line, somatic innervation would make bleeding painful – painlessness itself argues the source is visceral.