GI Bleeding (From Mouth or Rectum).

Upper
From Oesophagus to Duodenum (Stomach) caused by Peptic Ulcer, Oesophageal Varices + Cancer.

Lower
Occur in Jejunum, Ileum, Colon Rectum or Anus. Caused by IBD, Haemorrhoids, Cancer.

Mucosal Protectants
Form a protective physical barrier over surface of the ulcer shielding it from harsh environment of stomach lumen. In Acid, Sucralfate polymerizes to form a sticky gel that strongly coats ulcer.

Bismuth Chelate forms a protective layer by having high affinity for the exposed mucosal glycoproteins and necrotic tissue found in ulcers.

Both drugs need to be given on empty stomach and need to be taken with dietary protein + not function effectively.

Misoprostol: A stable analog of Prostaglandin E1. Have protective GI Action + Acts on Gastric cells to reduce Gastric Acid production.


Stool Chart

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tbody>
<tr>
<td>HARD LUMP</td>
<td>IDEAL</td>
<td>LIQUID</td>
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Type 1 and 2 = Constipation
Type 5 - 7 = Diarrhoea + Urgency
Physiology of Vomiting.

- Forceful Expulsion of contents from Stomach r Intestine.
  can act as defense mechanism to expel bad content/substances from Body
  e.g. Excess amount of Alcohol.

**EMESIS = 'To Vomit'**

All centres initiated to the act of vomiting come from the Central Nervous System,
particularly in the Brain Stem.

Vomiting Centre located in 'Medulla Oblongata' & has
predominantly Muscarinic type receptors.

So Activation of M receptors will Activate Vomiting
Centre to send signals to the muscles that
carry our physical act of vomiting = EMETIC REFUX.

**HOW IS THE VOMITING CENTRE STIMULATED?**

- Chemo receptor trigger-zone in the Medulla.
  - May 2 main types of receptor
    - Dopamine 2 receptor
    - 5-HT receptor.

**MOTION SICKNESS**

Abnormally activates vestibulocochlear Nerve (inside inner ear) of labyrinth, which
connects the labyrinth to the vestibular nuclei in Brain Stem.

**Activation of these receptors by vestibulocochlear Nerve**
causes vestibular Nuclei to stimulate
chemoreceptor Trigger Zone, which will stimulate
the vomiting centre => Emetic Reflex.