

The Gut

common problems

- vomiting
- diarrhoea
- ulcers
- ileus
- colic
- constipation
- bloat

vomiting

- fluids
- (anti-emetics)

diarrhoea

- fluids
- motility reducers
- (antibiotics)
- (anti-inflammatories)
- (wormers)

ulcers

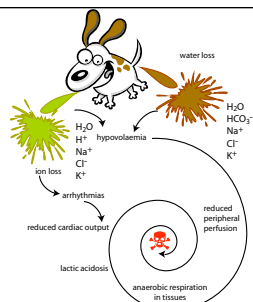
- proton pump inhibitors
- H2 antagonists
- coating agents

colic

- analgesics
- fluids
- motility reducers

constipation

- laxatives
- (prokinetics)



fluids

- oral best
- iv if necessary
- other routes
 - sc not much use
 - im no use
 - ip can be dangerous
 - intraosseous painful

oral fluids

- tap water
- salt
- glucose / glycine
- (starch)

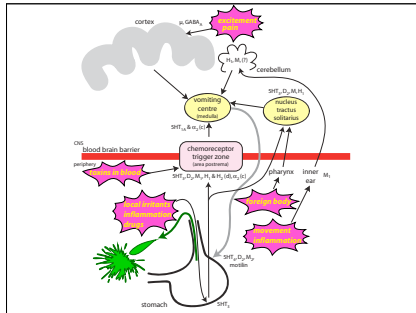
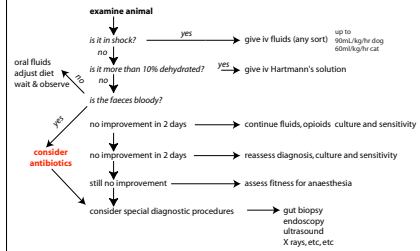
iv fluids

- sodium lactate infusion (= Hartmann's solution = lactated Ringer's)
- lot of others

iv additives

- KCl
- NaHCO_3

my approach



anti-emetics

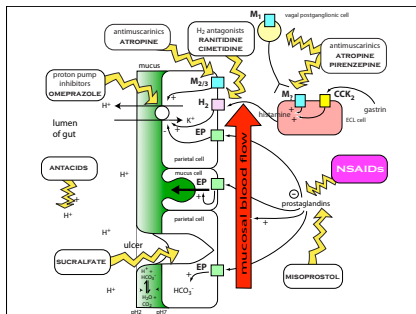
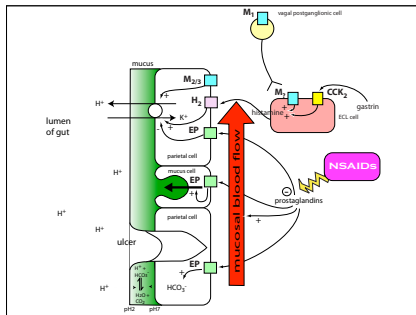
- **phenothiazines**
 - perchlorphenazine
- **dopamine antagonists**
 - metaclopramide
 - droperidol
- **5HT₃ antagonists**
 - ondansetron
- **(antihistamines)**
- **(anticholinergics)**

emetics

- apomorphine
- xylazine
- mustard
- saturated salt solutions

ulcer drugs

- anticholinergics
- prostaglandins
- H_2 antagonists
- proton pump inhibitors
- antacids
- local protectants
- antibiotics



anticholinergics

- M_1 antagonists
 - pirenzepine
- not atropine

prostaglandins

- PGE analogues
 - misoprostol

antihistamines

- H₂ antagonists
 - cimetidine
 - ranitidine
 - famotidine

proton pump inhibitors

- omeprazole
- pantoprazole
- lansoprazole

antacids

- aluminium
 - hydroxide
- magnesium
 - hydroxide
 - carbonate
 - oxide
 - trisilicate
- not much use

protectants

- sucralfate
- colloidal bismuth
- (kaolin)
- (pectin)

gut motility

- prokinetics
 - metoclopramide
 - erythromycin
- spasmolytics
 - anticholinergics
 - opioids

opioids

- loperamide
- diphenoxylate
- (morphine)

antibiotics

- not usually indicated
- give if
 - there is evidence of invasion
 - a specific pathogen has been cultured

pre & probiotics

- the future???

anti-inflammatories

- inflammatory bowel disease
 - sulphasalazine
 - olsalazine
 - mesalazine
- not usually NSAIDs or steroids

laxatives

- enemas
 - soapy water
- bulk forming laxatives
- osmotic laxatives
- lubricant laxatives
- irritant laxatives

bulk forming laxatives

- psyllium
- bran

osmotic laxatives

- lactulose
- MgSO_4

lubricant laxatives

- liquid paraffin (= mineral oil)
- white soft paraffin (= petrolatum, Vaseline)
- do NOT use
 - paraffin oil (= kerosene)
 - paraffin wax (= paraffin)

irritant laxatives

- rhubarb
- senna



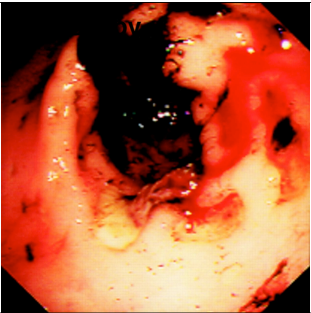
What would you do?



what would you do?



- 8yr old
- hip lameness
- on NSAIDs for 2 wks
- now off food & miserable



problem

- ulcers

treatment

- misoprostol?
- ranitidine?
- omeprazole?
- stop NSAIDs?

the gut

- treatment of diarrhoea - give fluids - po if possible, iv if not, then possibly opioids
- do NOT give antibiotics unless bacteria are invading mucosa - they often cause diarrhoea
- vomiting - iv fluids, anti-emetics only for persistent vomiting
- ulcers - H2 blockers, proton pump inhibitors or sucralfate - not antacids or NSAIDs
- ileus - metaclopramide or erythromycin
- colitis - sulphasalazine