

How do laxatives and antidiarrhoeals work?

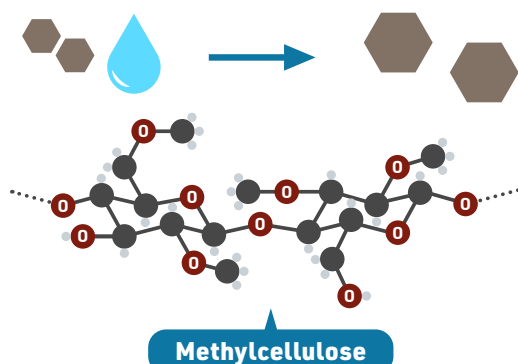
Laxatives

Laxatives are medicine used to treat constipation. There are four main types.

KEY: ● Carbon ○ Oxygen ● Nitrogen ● Sulfur ● Sodium ● Bismuth ● Hydrogen

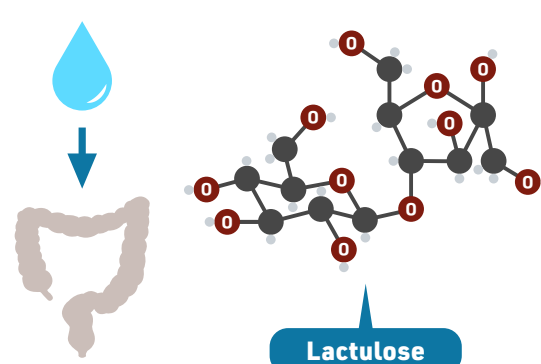
Bulk-forming laxatives

These are fibrous agents, such as methylcellulose, which absorb water and form a bulky gel. This stimulates the bowel to push softened poo out.



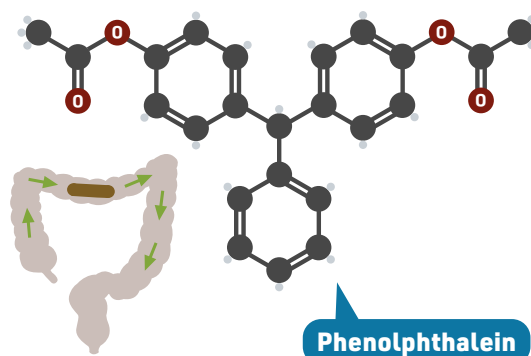
Osmotic laxatives

These agents draw water into the bowel to soften poo and make it easier to pass. Examples include lactulose and macrogol.



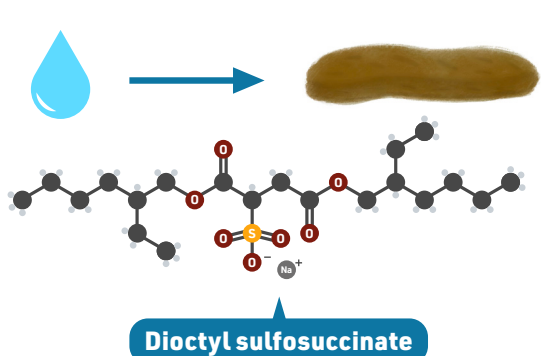
Stimulant laxatives

These agents stimulate the muscles in the bowel to move poo along. They include bisacodyl and senna, as well as the disused phenolphthalein.



Poo-softening laxatives

These agents add moisture to poo and make it softer and easier to pass. An example is docusate (dioctyl sulfosuccinate).

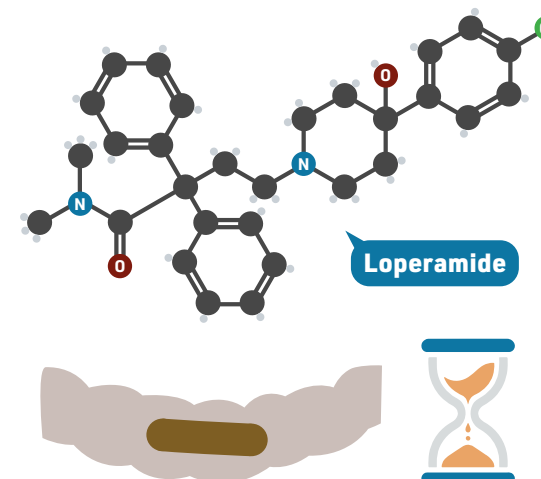


Antidiarrhoeals

Antidiarrhoeals treat diarrhoea. As with laxatives, there are four main types.

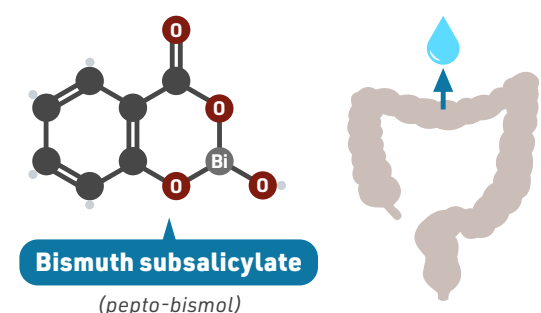
Opioid and opioid-related

These agents decrease the intestinal muscle movements which move poo along the bowel. They include loperamide.



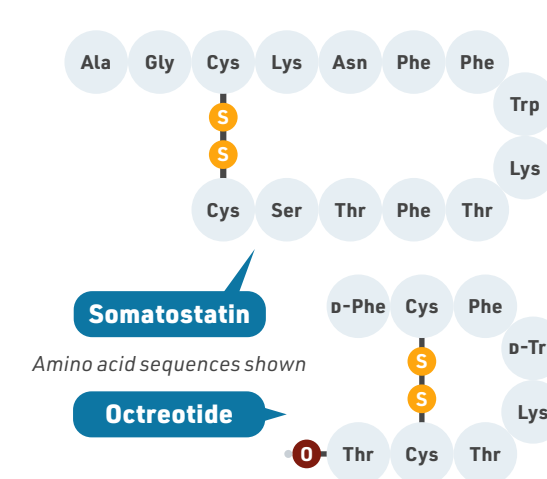
Adsorbents

Adsorbents such as pepto-bismol are thought to coat and kill bacteria that cause diarrhoea, as well as increasing intestinal fluid absorption.



Somatostatin analogues

These agents, such as octreotide, mimic the natural hormone somatostatin, slowing the movement of food through the intestines.



Bulk-forming agents

Fibrous bulk-forming agents absorb the excess water in the bowel, bulking up poo to relieve diarrhoea. They can take 2-3 days to work.

