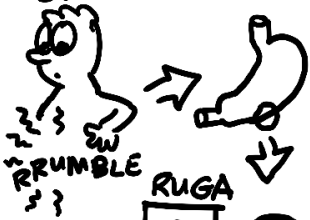
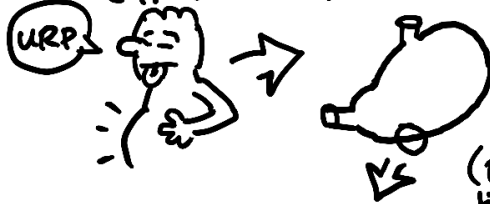


STOMACH WALL

When empty, the stomach shrinks:



When full, the stomach expands, and its wall is stretched flat:



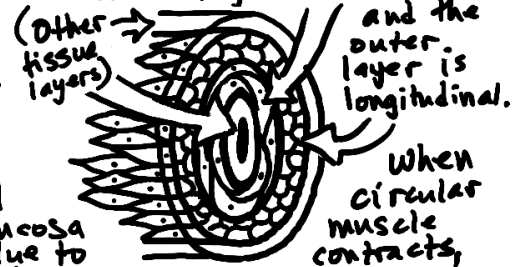
The rugae (wrinkles or folds) consist of both mucosa and submucosa

"As snug as a bug in a rug"

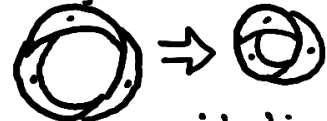


SMOOTH MUSCLE LAYERS

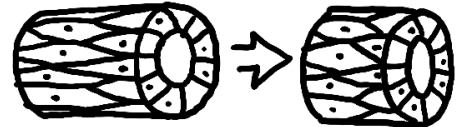
Sheets of smooth muscle tissue form a major part of the walls of most hollow organs. In general, the inner layer is circular and the outer layer is longitudinal.



When longitudinal muscle contracts, the shortening of the cells is along the axis of the tube, so the tube gets shorter:

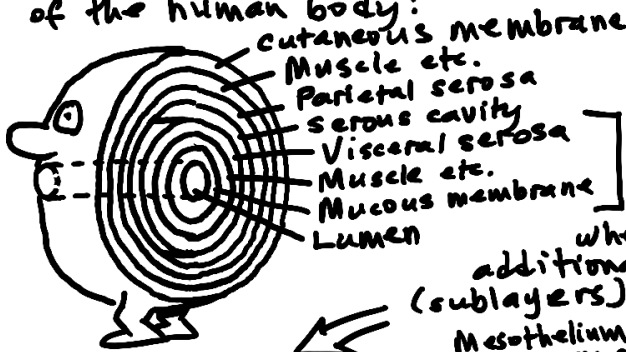


When longitudinal muscle contracts, the shortening of the cells is along the axis of the tube, so the tube gets shorter:



LAYERS OF THE GI TRACT WALL

We discussed earlier the basic topology of the human body:



These three basic layers make up the digestive tract wall, where we find additional detail

Serous cavity = peritoneal cavity

Visceral serosa
"Muscle etc."

Mucous membrane (mucosa)

Lumen

Epithelium

connective tissue (blood plasma leaks → serous fluid)

Longitudinal muscle

Circular muscle

Submucosa -- connective tissue needed to carry major blood vessels, etc.

Muscularis mucosae -- only found in digestive tract. Needed to eject food particles that get stuck in mucosa.

Lamina propria -- connective tissue for blood supply to/from the all-important epithelium!

Mesothelium (for slippery surface)

Circular muscle pinches behind food... while longitudinal m. reaches behind food like a snake swallowing a mouse...

So food moves down.

Muscularis mucosae contracts

Fish bone ejected