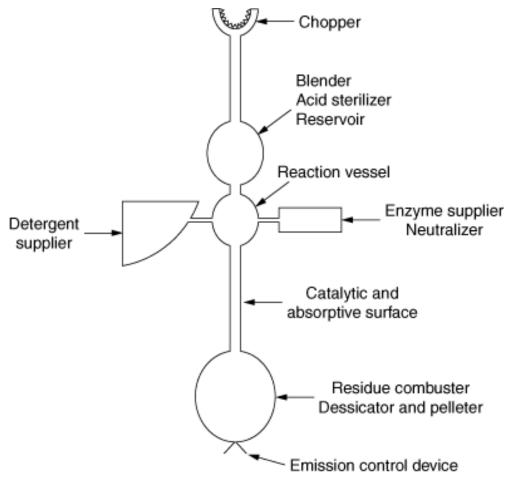
Summary Slides

M Setshedi

Functions of the Gut



- Don't forget the accessory organs
- Each section is adapted for its function
- Role of the gut in immunity is important
- Role of the microbiome in health and disease is key

Source: Barrett KE: *Gastrointestinal Physiology*: http://www.accessmedicine.com

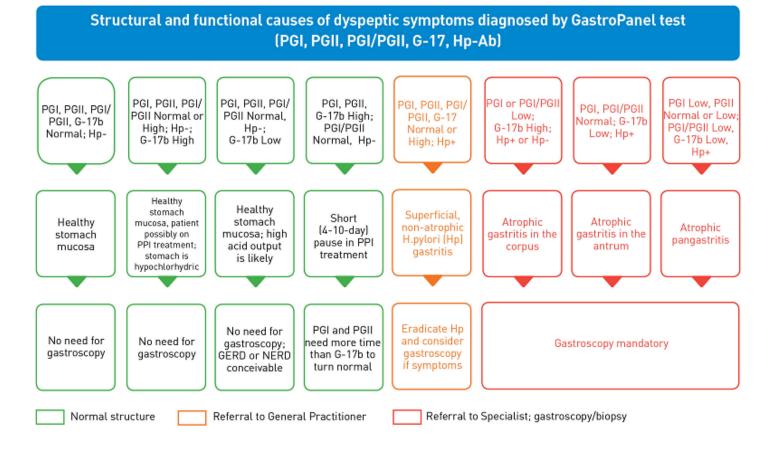
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Applications

- Oropharyngeal dysphagia
- GORD/NERD
- Acid suppressants MOA
- PG1/11 ratio, utility in gastric atrophy (gastro panel)
- SB vs large bowel diarrhoea
- Malabsorption
- SBS, SIBO, gut microbiome, FODMAPS

GastroPanel for H. pylori

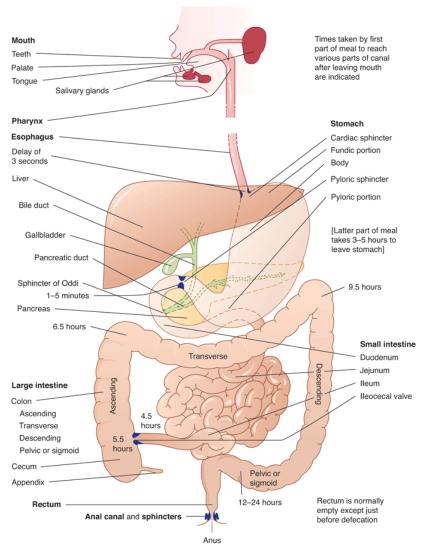
GastroPanel[®] – interpretation guide snapshot



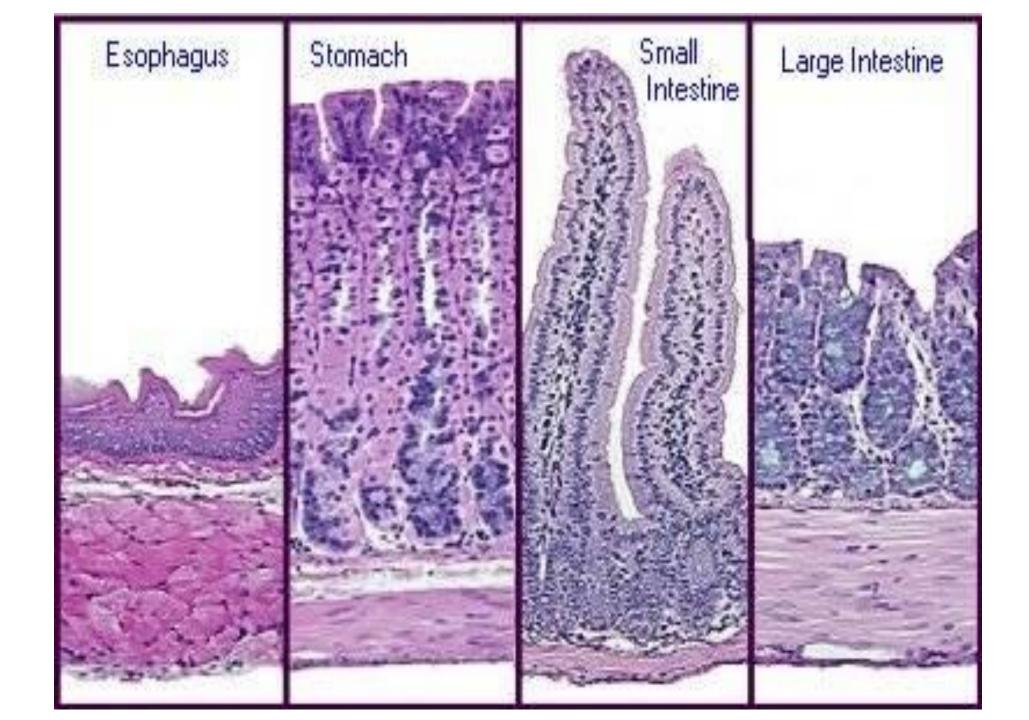
Relevance of Gastrointestinal Research

| Year of Nobel Prize | Recipient | Area of Unique Research |
|---------------------|-------------------------------|---|
| 1904 | Ivan Pavlov, Russia | Brain interactions and digestive physiology |
| 1977 | Rosalyn Yalow, USA | Identification and characterization of gut hormones |
| 1988 | James Black, UK | Histamine 2 receptor and translation to H2RAs |
| 2005 | Marshall & Warren (Australia) | H. Pylori causes PUD and GCA |

Gut transit



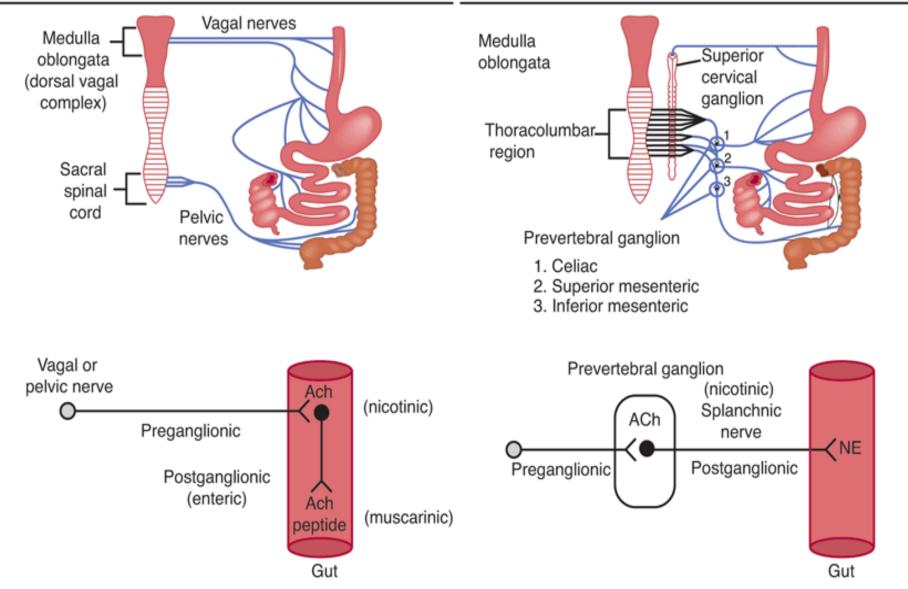
Source: McPhee SJ, Hammer GD: Pethophysiology of Disease: An Introduction to Clinical Medicine, 6th Edition: http://www.accessmedicine.com Copyright © The McGraw-Hill Companies, Inc. All rights reserved.



Parasympathetic

Sympathetic

Neurons of the autonomic parasympathetic division project from the medulla oblongata and sacral regions of the spinal cord Neurons of the autonomic sympathetic division project to the gut from thoracic and first lumbar segments of the spinal cord



Source: McPhee SJ, Hammer GD: Pathophysiology of Disease: An Introduction to Clinical Medicine, 6th Edition: http://www.accessmedicine.com

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