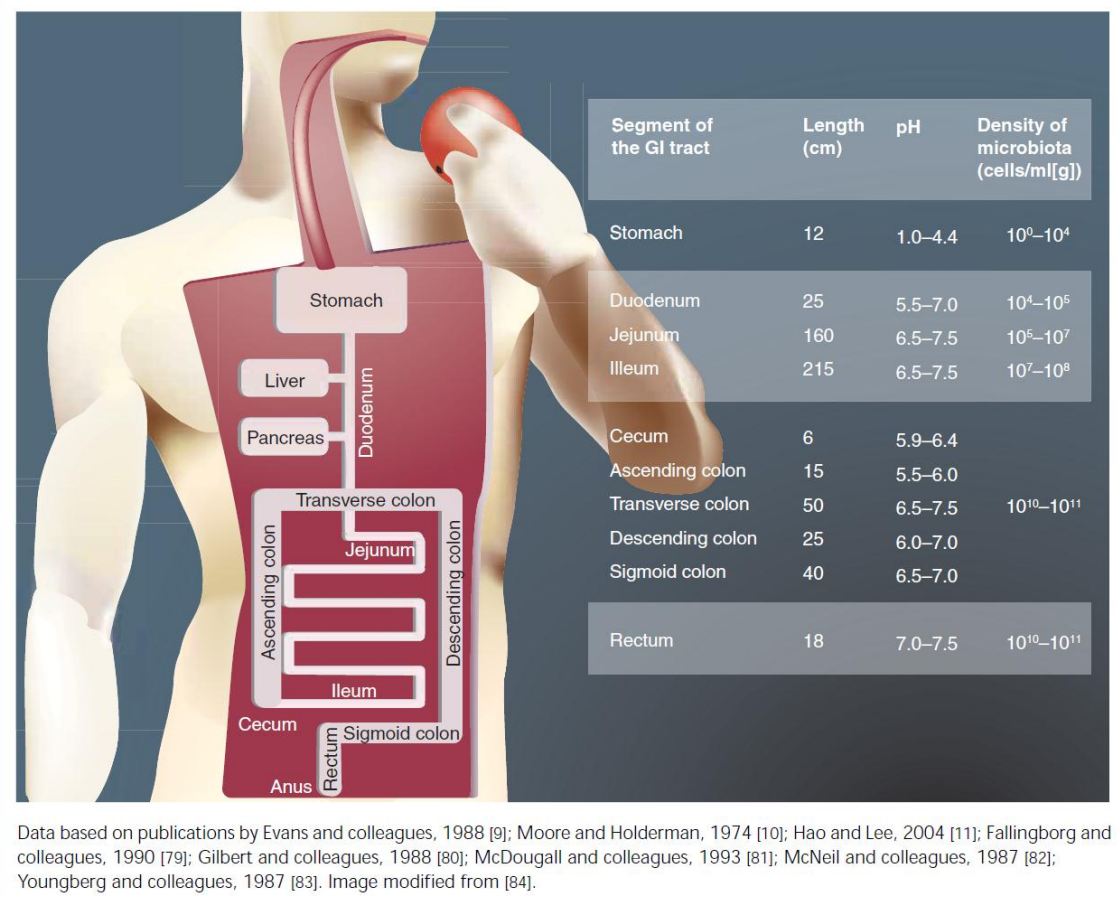


Figure 1. Schematic representation of the anatomy of the human gastrointestinal tract with the average length, pH and density of microbiota per segment.



9. Evans DF, Pye G, Bramley R, Clark AG, Dyson TJ, Hardcastle JD: Measurement of gastrointestinal pH profiles in normal ambulant human subjects. *Gut* 29, 1035–1041 (1988).
10. Moore WE, Holdeman LV: Human fecal flora: the normal flora of 20 Japanese-Hawaiians. *Appl. Microbiol.* 27, 961–979 (1974).
11. Hao WL, Lee YK: Microflora of the gastrointestinal tract: a review. *Methods Mol. Biol.* 268, 491–502 (2004).

79. Fallingborg J, Christensen LA, Ingeman-Nielsen M *et al.*: Measurement of gastrointestinal pH and regional transit times in normal children. *J. Pediatr. Gastroenterol. Nutr.* 11, 211–214 (1990).
80. Gilbert J, Kelleher J, Littlewood JM, Evans DF: Ileal pH in cystic fibrosis. *Scand. J. Gastroenterol. Suppl.* 143, 132–134 (1988).
81. McDougall CJ, Wong R, Scudera P, Lesser M, DeCosse JJ: Colonic mucosal pH in humans. *Dig. Dis. Sci.* 38, 542–545 (1993).
82. McNeil NI, Ling KL, Wager J: Mucosal surface pH of the large intestine of the rat and of normal and inflamed large intestine in man. *Gut* 28, 707–713 (1987).
83. Youngberg CA, Berardi RR, Howatt WF *et al.*: Comparison of gastrointestinal pH in cystic fibrosis and healthy subjects. *Dig. Dis. Sci.* 32, 472–480 (1987).
84. Rajilic-Stojanovic M: Diversity of the human gastrointestinal microbiota – novel perspectives from high throughput analyses. Wageningen University, Wageningen, The Netherlands, 1–218 (2007) (In press).