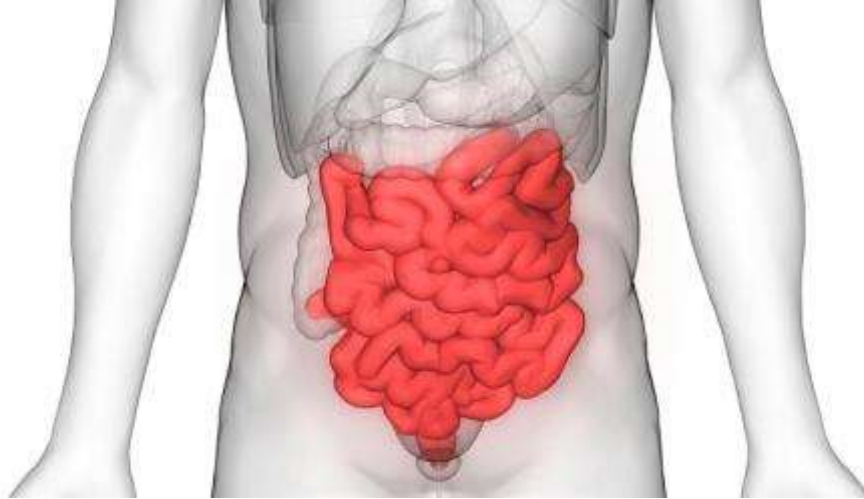
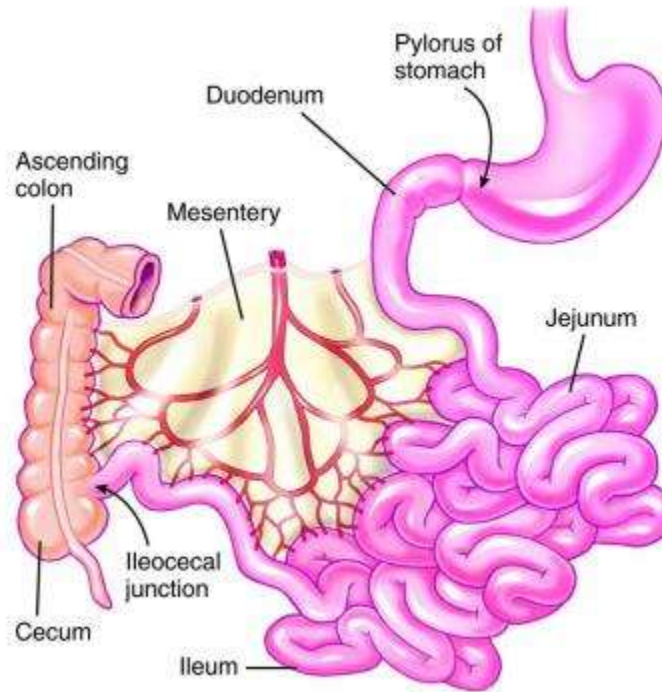


Chapter X-Gastrointestinal tract – small intestine

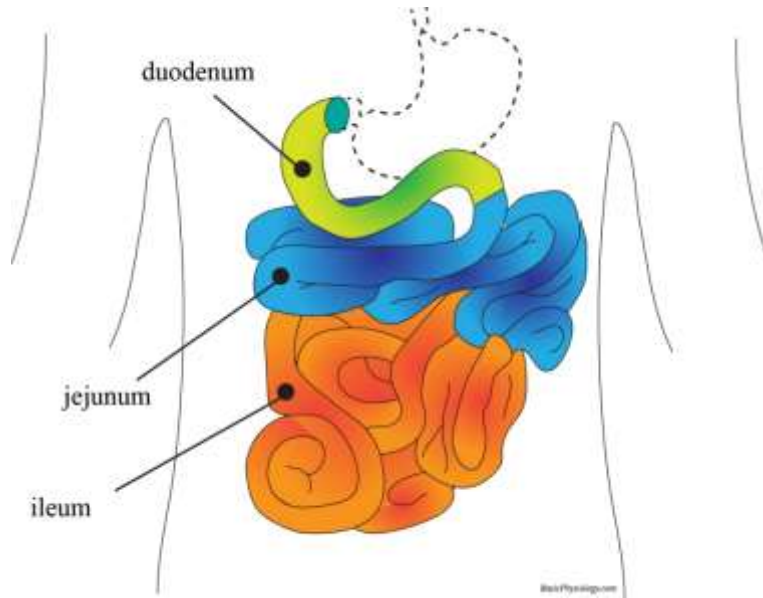


<p>SMALL INTESTINE</p>	<div style="text-align: center;"> <h3>Three Parts of Small Intestine</h3> </div>		
<p>Length:</p>	<p>650 cm.</p>		
<p>Diameter:</p>	<p>Diminishes distally</p>		
<p>Mucosa:</p>	<p>Velvety gray-pink</p>	<p>Characteristic transverse folds</p>	
<p>Divisions:</p>	<p>(a) Duodenum (b) Jejunum (c) Ileum</p>		

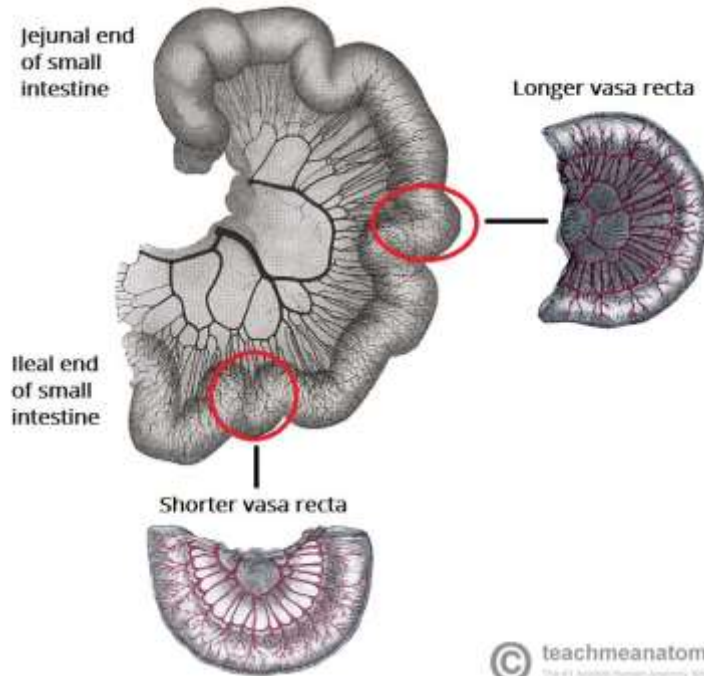


(a) DUODENUM			
	The most-fixed part of small intestine		
	<ul style="list-style-type: none"> • Widest • Shortest • Devoid of mesentery • C-shaped curve (incomplete circle) • Concavity occupied by head of pancreas 		
Length:	26 cm		
Diameter :	4.6 cm.		
Thickness of wall:	<i>Thickest part of small intestine</i>		
Special features	1. First part (superior):	Length: 5 cm. <i>Usually stained green</i>	
	2. Second part (descending):	Length : 8.5 cm.	
	<ul style="list-style-type: none"> • Bile duct and pancreatic duct: 	<ul style="list-style-type: none"> • Lie at medial side • When united, ampulla of bile duct • (short dilated duct); • This narrows distally and, has an aperture in summit of duodenal papilla 	
	3. Third part (transverse):	<i>Length: 10 cm.</i>	
	4. Fourth part (ascending):	<i>Length: 2.5 cm.</i>	
	Mucosa of duodenum	Stains with bile	

		Resembles that of jejunum		
		but villi are : <ul style="list-style-type: none"> • Shorter • Broader • Numerous 		
	Folds :	Start 2.5 cm. from pylorus Most abundant		



(b) JEJUNUM				
Proximal 2/5				
Length:	<ul style="list-style-type: none"> • 250 cm. 			
Diameter:	<ul style="list-style-type: none"> • 3.5-4 cm. 			
Lumen:	<ul style="list-style-type: none"> • Wider • Empty (at autopsy or operation) 			
Walls:	<ul style="list-style-type: none"> • Thicker • Redder 			
Folds & villi:	<ul style="list-style-type: none"> • Permanent • Large Closely-set • Numerous • Prominent 			
Lymphatic nodules (Peyers patches):	<ul style="list-style-type: none"> • Aggregated • Absent in upper part • Few in lower part • Small in lower part 			
Blood vessels:	<ul style="list-style-type: none"> • Appear in mesentery 			



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(c) ILEUM				
Distal 3/5				
Length :	400 cm.			
Diameter :	3-3,5 cm,			
Lumen	<ul style="list-style-type: none"> • <i>Narrower than jejunum</i> • <i>Retains some contents</i> 			
Walls	<ul style="list-style-type: none"> • <i>Thinner</i> • <i>Less red</i> 			
Folds	<ul style="list-style-type: none"> • <i>Disappear at end</i> • <i>Smaller and shorter</i> • <i>Less prominent</i> • <i>Fewer</i> • <i>More widely-spaced</i> 			
Lymphoid tissue (solitary) :	<ul style="list-style-type: none"> • <i>Aggregated</i> • <i>Rounded</i> • <i>Numerous</i> • <i>Larger</i> • <i>Less apparent</i> 	<ul style="list-style-type: none"> • <i>with old age →</i> 	<ul style="list-style-type: none"> • <i>fewer and</i> • <i>flatter</i> 	
Blood vessels	<ul style="list-style-type: none"> • <i>Hidden by excess of mesenteric fat</i> 			

Small Intestine – Microscopic Anatomy

