

다빈도 외과 수술의 이해

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국내 다빈도 수술






〈연령대별 상위 5개 수술인원 추이〉

(단위: 명)

구 분	계	1위	2위	3위	4위	5위
계	1,532,754	백내장수술	치핵수술	재왕절개수술	일반척추수술	총수절제술
		360,721	188,862	168,893	161,494	88,643
9세 이하	33,551	편도절제술	서혜 및 대퇴하니아 수술	총수절제술	심장수술	내시경하부비동수술
		16,900	8,129	4,221	2,082	956
10대	38,365	총수절제술	내시경하부비동수술	편도절제술	치핵수술	서혜 및 대퇴하니아 수술
		15,863	7,513	7,139	4,112	847
20대	113,241	재왕절개수술	치핵수술	총수절제술	내시경하부비동수술	편도절제술
		32,628	30,223	14,507	13,716	7,271
30대	233,150	재왕절개수술	치핵수술	총수절제술	내시경하부비동수술	담낭절제술
		126,325	38,947	15,252	9,940	9,022
40대	183,063	치핵수술	자궁절제술	일반척추수술	백내장수술	총수절제술
		44,847	21,463	15,852	14,245	13,366
50대	233,224	백내장수술	치핵수술	일반척추수술	담낭절제술	스텐트삽입술
		50,896	39,336	28,489	15,334	12,531
60대	279,609	백내장수술	일반척추수술	술관절 치환술	치핵수술	스텐트삽입술
		104,638	36,778	22,338	20,689	17,421
70대	298,295	백내장수술	일반척추수술	술관절치환술	스텐트삽입술	담낭절제술
		139,250	42,587	33,462	16,530	10,792
80대 이상	120,256	백내장수술	일반척추수술	고관절치환술	스텐트삽입술	술관절치환술
		48,255	25,665	9,087	7,348	7,281

KOSIS-SSI 감시대상 수술

표 2-1. KONIS-SSI 감시대상 수술의 분류

KONIS - SSI 코드	수술명	KONIS - SSI 코드	수술명	정의 및 감시범위	건강보험 EDI 표준코드
	위수술 Gastric surgery	CBGB	심장동맥우회술 (가슴과 다리 모두 절개) Coronary artery bypass graft with both chest and donor site incisions	관상동맥의 협착 부위의 재관류를 위하여 흉곽을 개방하는 수술로 혈관 이식을 위하여 적당한 정도에 채취하기 위한 공여부위(가슴/다리부위)의 수술이 포함될 말한다.	
	결장수술 Colon surgery		심장동맥우회술 (가슴만 절개) Coronary artery bypass graft with chest incision only	관상동맥의 협착 부위의 재관류를 위하여 흉곽을 개방하는 수술로 채취를 위한 공여부위의 절개되지 않고 흉곽 내의 동맥(예, 속가슴동맥; internal artery)만을 이용할 때를 말한다.	
	직장수술 Rectal surgery	CARD	심장수술 Cardiac surgery	심장의 판막이나 증격(sep) 대에 시행되는 흉곽을 개방 수술을 말하며, 여기에는 심장동맥우회술, 혈관수술, 심장이식, 심장 박동조율기 제외된다.	
	담낭수술 Gallbladder surgery		제왕절개술 Cesarean section	출산을 위하여 자궁을 절개하는 수술	
KPRO	슬관절치환술 Knee prosthesis	HYST	배자궁적출술 Abdominal hysterectomy	복부절개를 통하여 자궁을 수술	
HIPRO	고관절치환술 Hip prosthesis	VHYS	질자궁적출술 Vaginal hysterectomy	질 또는 회음부 절개를 통하여 자궁을 제거하는 수술	
		PRST	전립선적출술 Prostatectomy	치골상부, 치골후부, 근치적 혹은 회음부 절개로 전립선을 절제하는 수술, 전립선경요도절제(TURP)는 포함하지 않는다	R3940, R3950, R3960
			충수절제술 Appendectomy	충수염 또는 충수종양으로 인한 충수절제술	Q2856, Q2861, Q2862, Q2863
		NECK	경부수술 Neck surgery	후두악성종양절제술과 경부절제술 Resection of Laryngeal Malignant tumor and neck dissection	O1224, O1225, O1225, O1226, O1227, P2112, P2113, P2114, P2115, P2116, P2117, P2118, P2119
		THOR	흉부수술 Thoracic surgery	비심장, 비혈관의 가슴 수술; 폐절제와 틈새탈장 복원 또는 가로막탈장 복원 (복부 접근법 제외) 포함.	O1313, O1314, O1326, O1336, O1344, O1345O1351, O1352, O1353, O1354, O1360, O1380, O1401, O1410, O1421, O1422, O1423, O1424, O1431, O1432, O1440, O1450, O1460, O1480, O1483, O1484, O1485, O1486, O1491, O1492, O1540, O1570, O1581, O1586, O1591, O1592, O1593, O1596, O1597, O1600, O1605, O1610

Gastric surgery

Colon surgery

Rectal surgery

Gallbladder surgery

Appendectomy

Contents

1. Appendectomy
2. Cholecystectomy
3. Colectomy
4. Gastrectomy

외과 수술의 이해

1. 수술하는 질병에 대한 이해

- benign, malignant

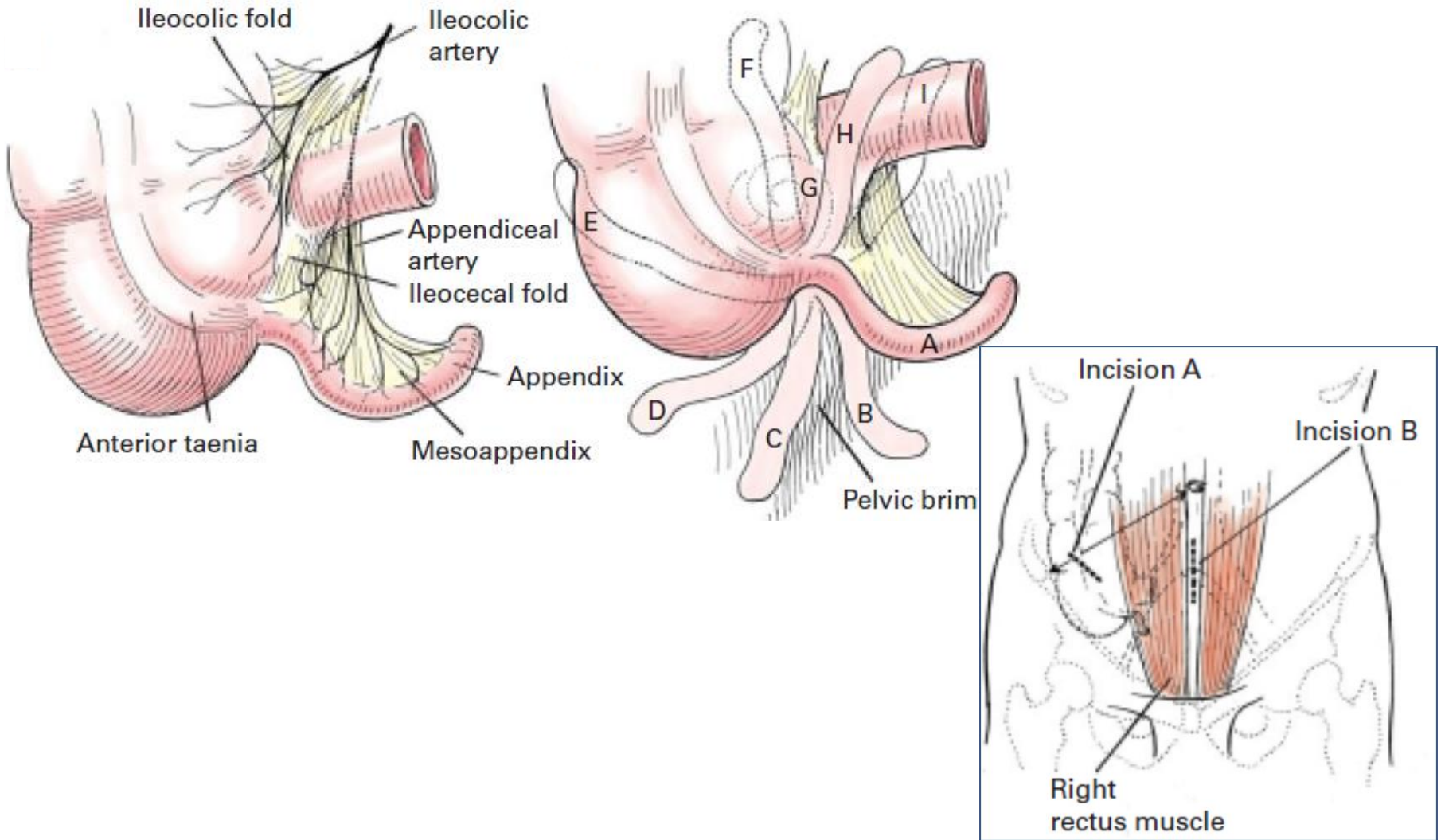
2. 수술 방법에 대한 이해

- surgical anatomy

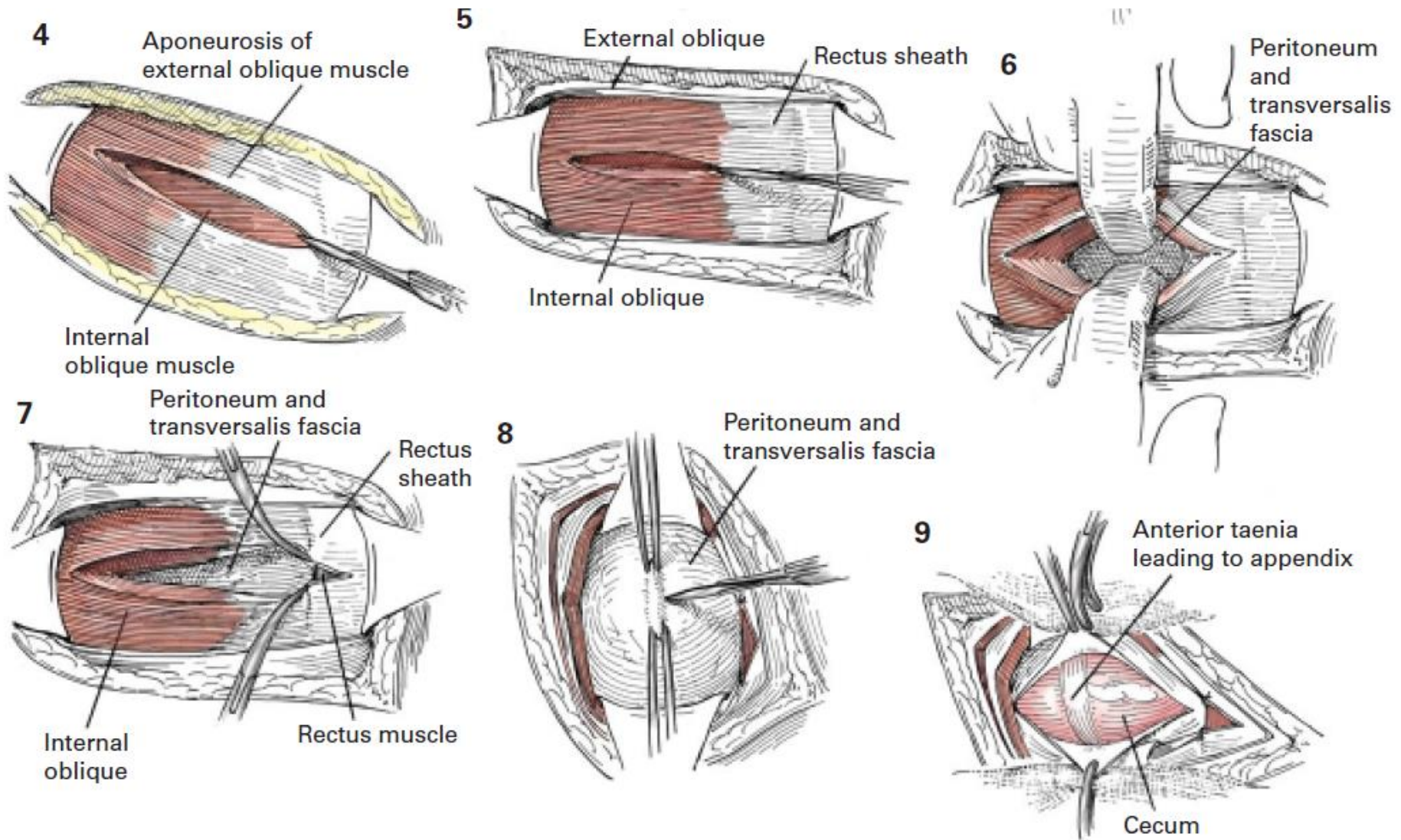
3. 수술 결과에 대한 이해

- functional change, oncologic outcomes, complication

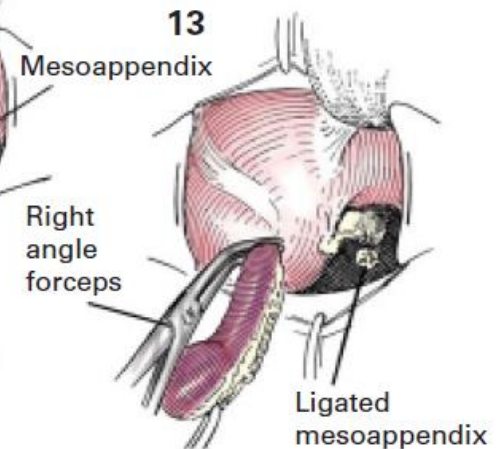
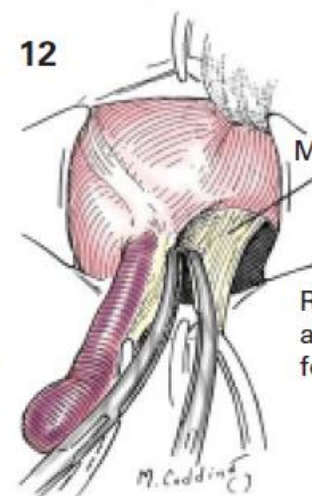
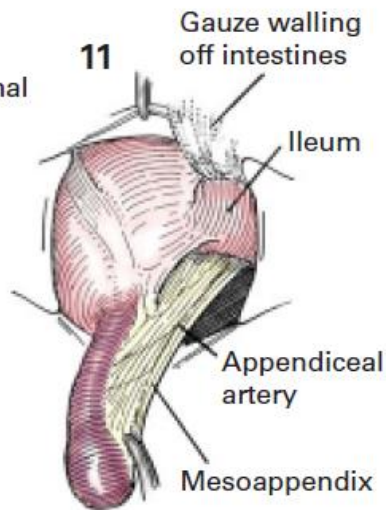
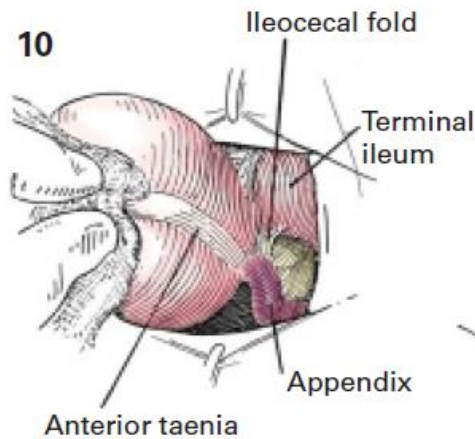
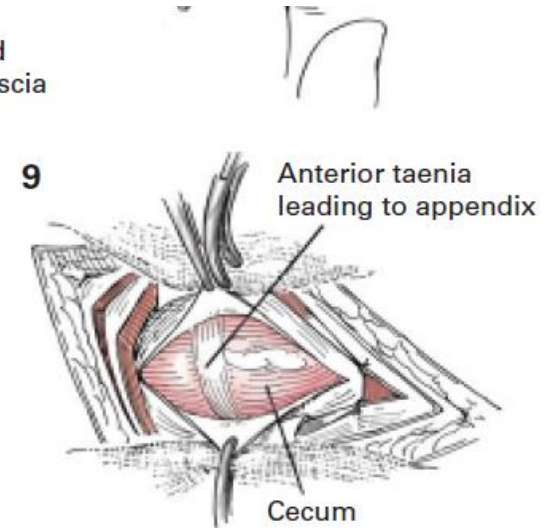
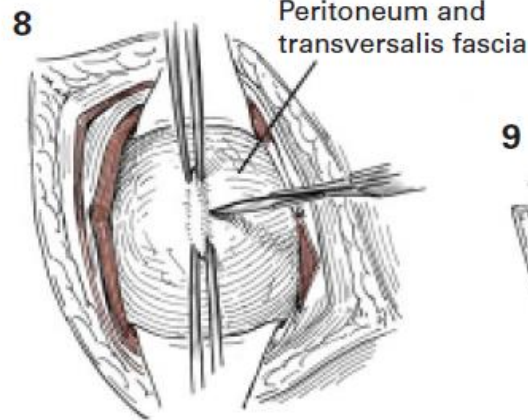
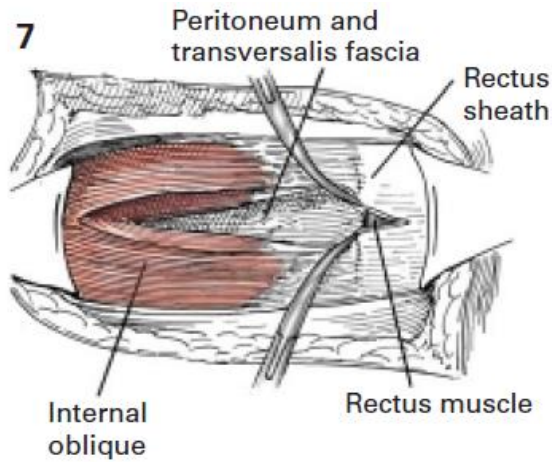
Appendectomy



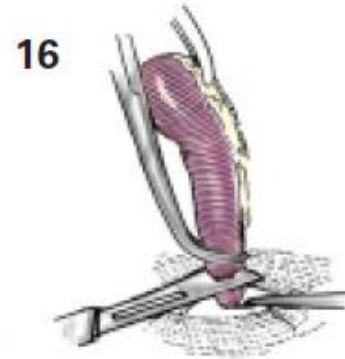
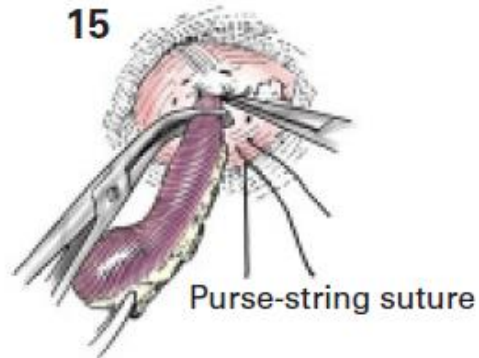
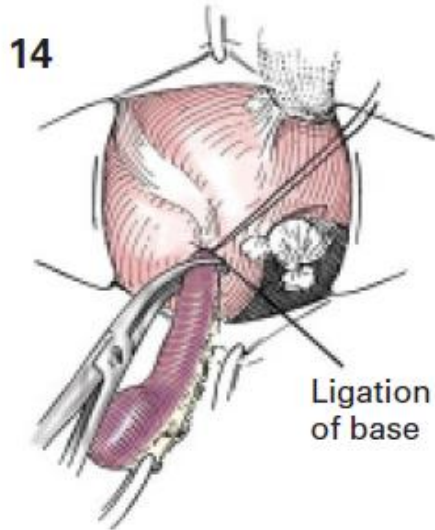
Appendectomy



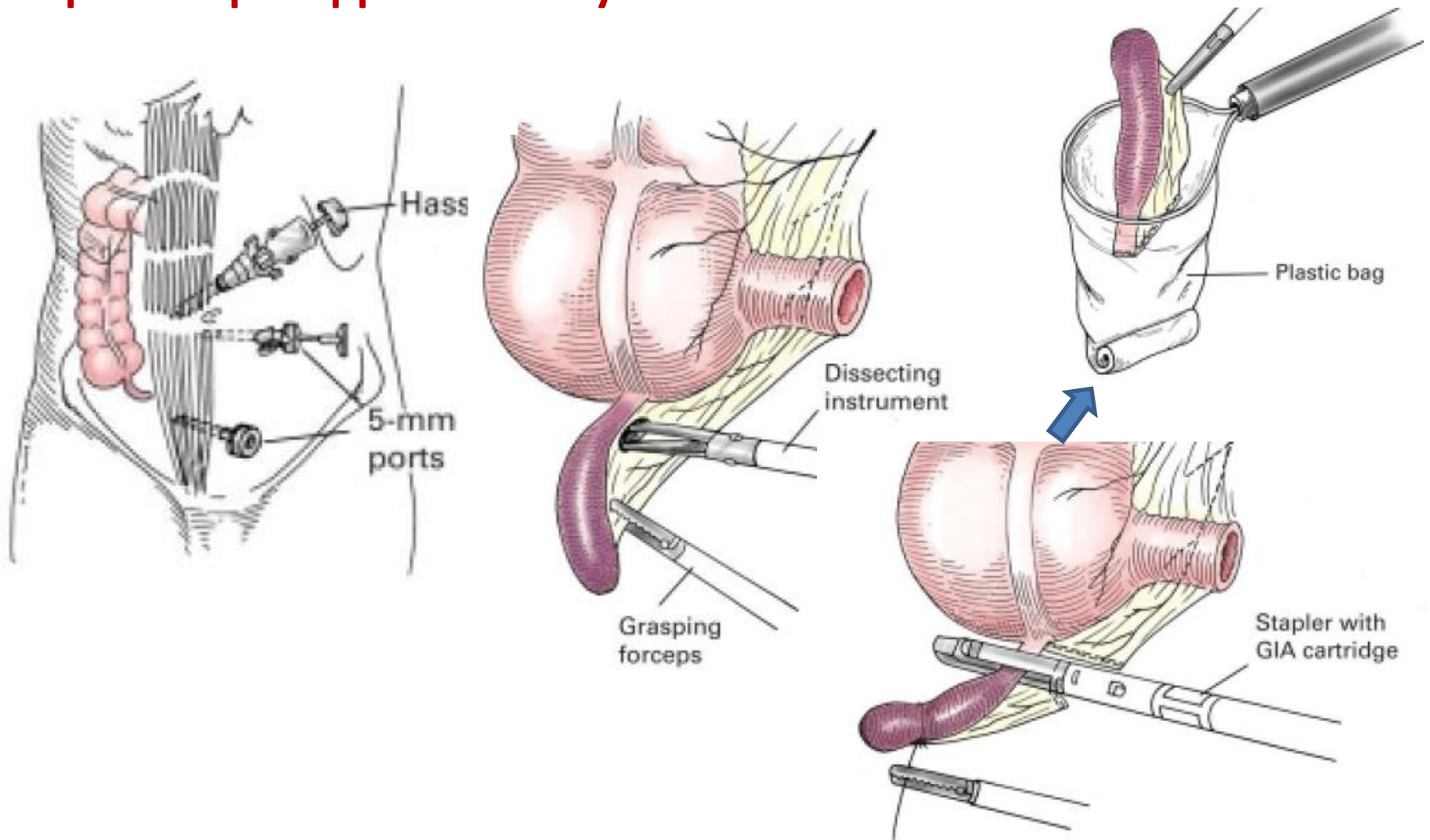
Appendectomy



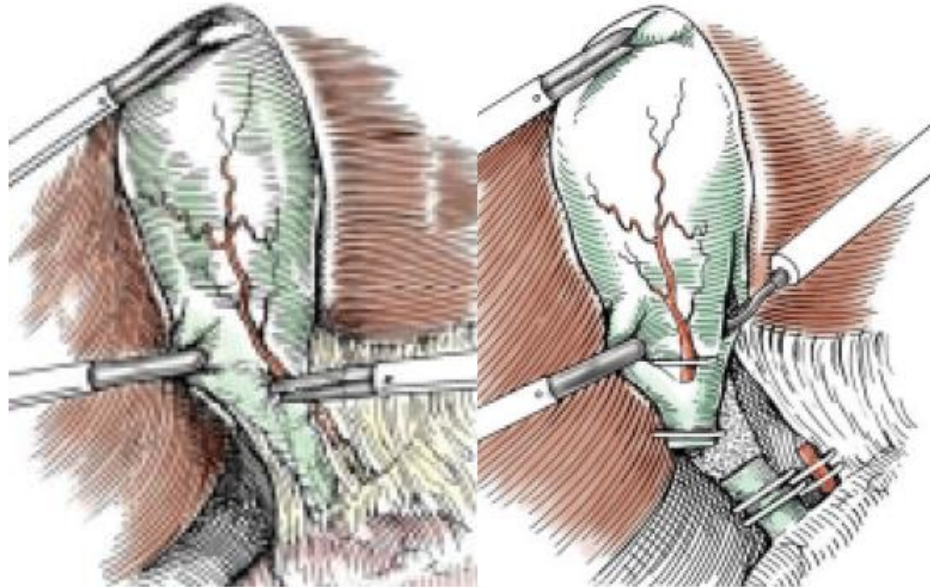
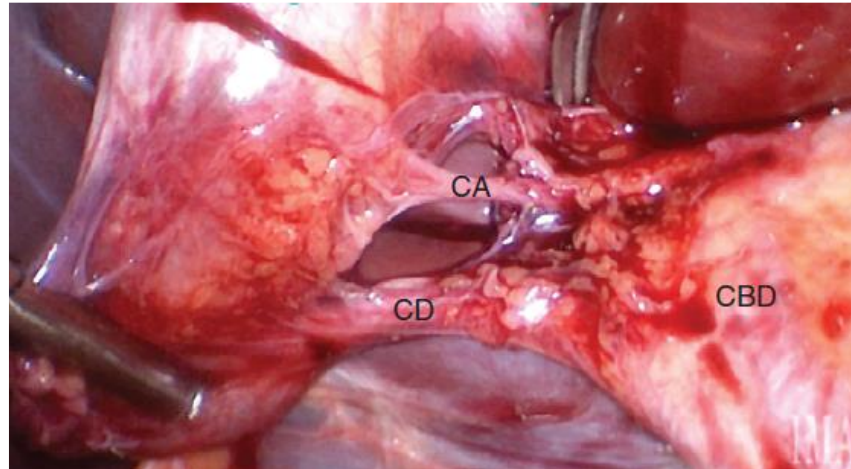
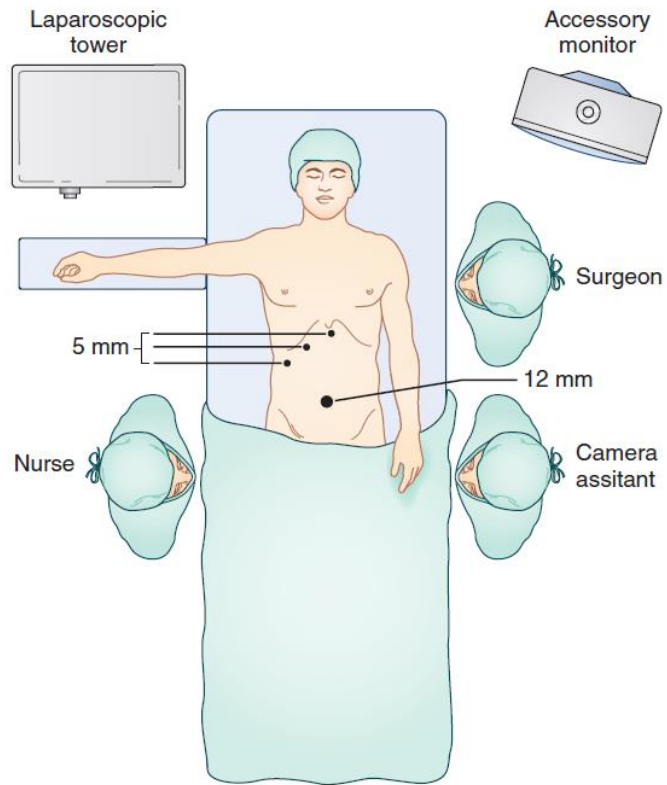
Appendectomy



Laparoscopic Appendectomy



Laparoscopic Cholecystectomy

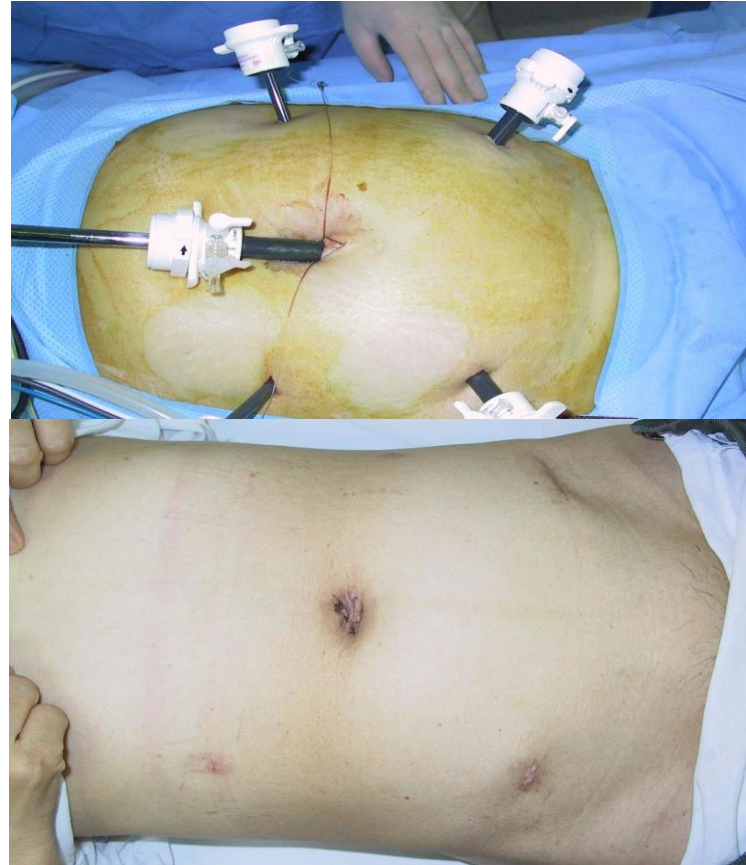


Gastrectomy, Colectomy

1. 장기를 주변으로 부터 박리
: mobilization of the stomach/colon/rectum
2. 혈관을 절단(결찰)
: ligation of vessels
3. 장기를 위, 아래(근위부, 원위부) 절단
: resection of target specimen
4. 절단된 부분을 연결
: Anastomosis, restoration of bowel continuity

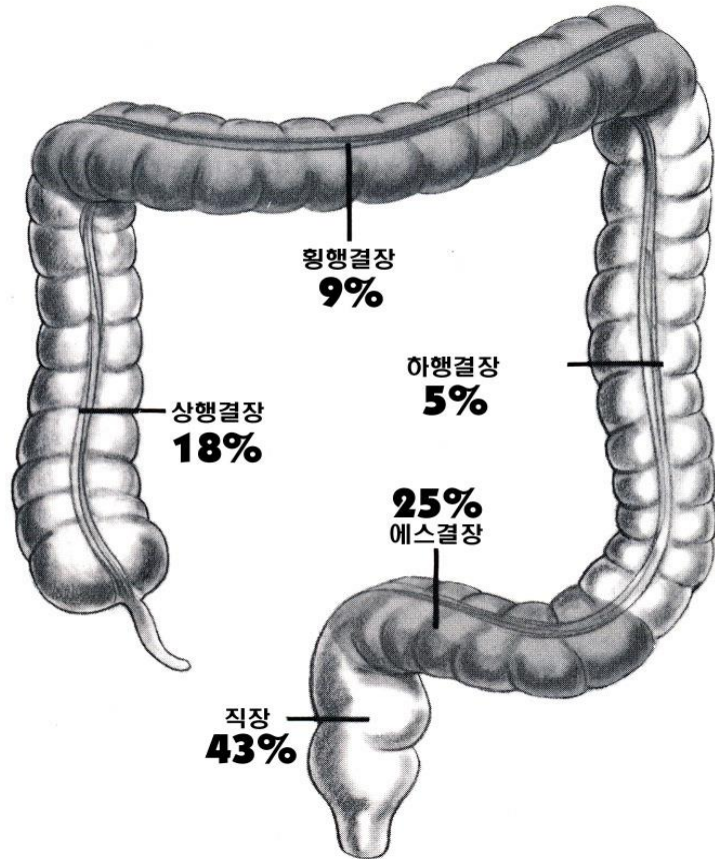
Gastrectomy, Colectomy

5. 개복수술 → 복강경수술



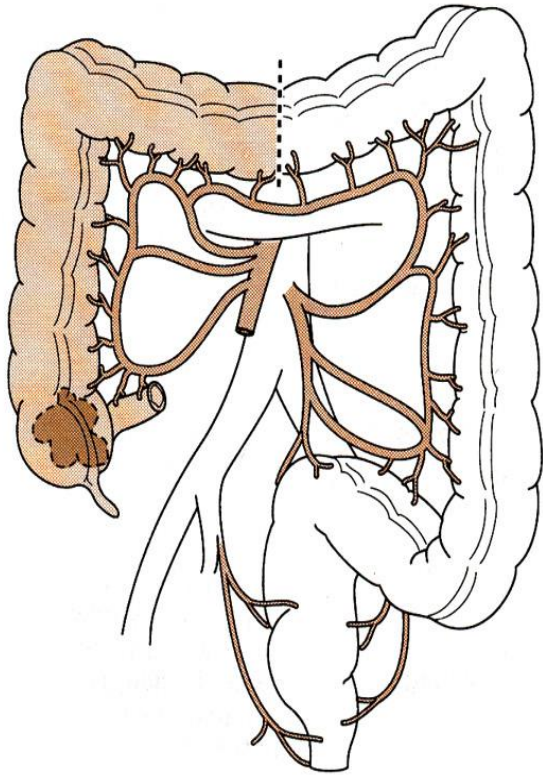
Colectomy

대장 (colorectum) = 결장 (colon) + 직장 (rectum)



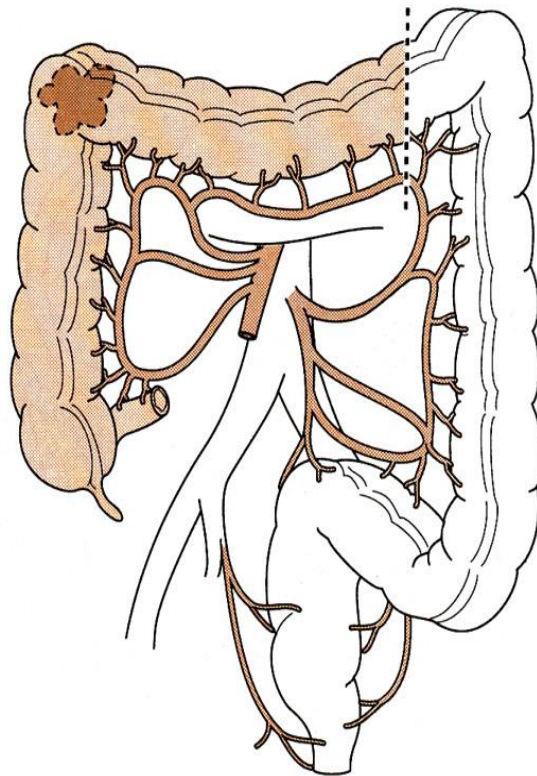
대장암의 발생분포

Colectomy



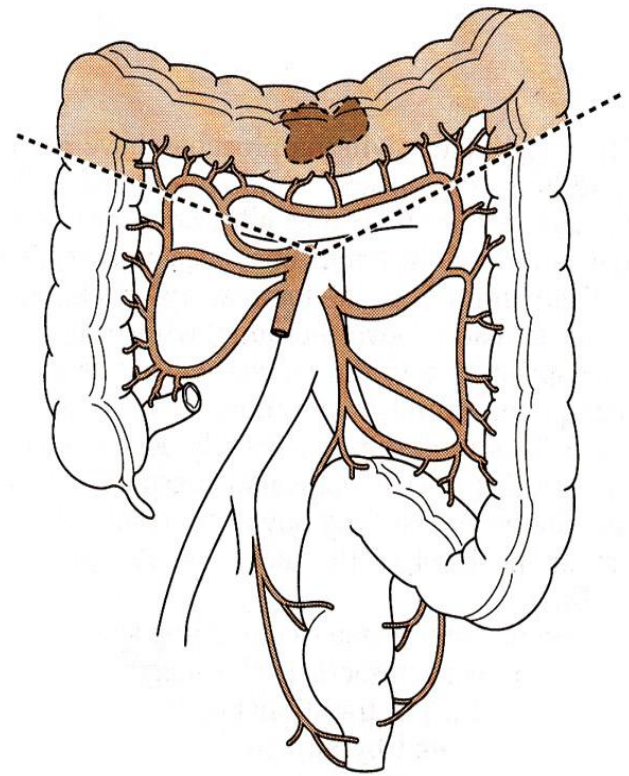
우결장절제술

Rt. hemicolectomy (RHC)



확대우결장절제술

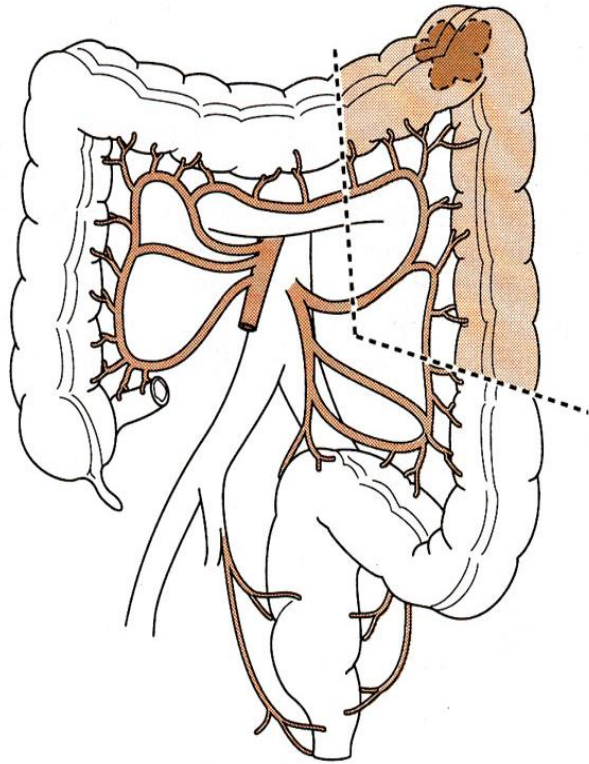
Extended RHC



횡행결장절제술

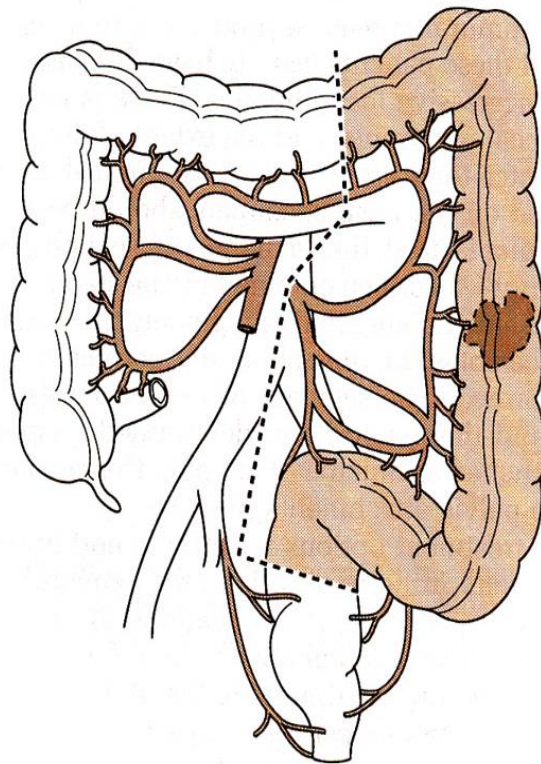
Transverse colectomy

Colectomy



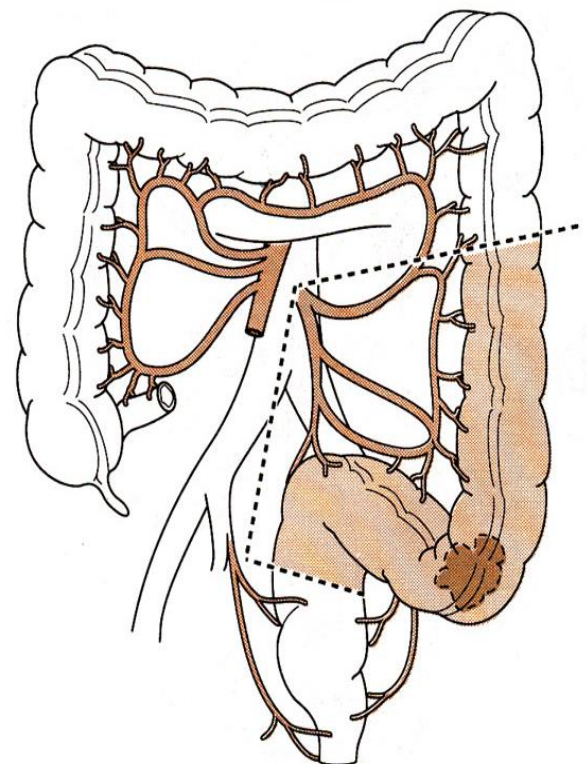
좌결장절제술

Lt. hemicolectomy (LHC)



확대좌결장절제술

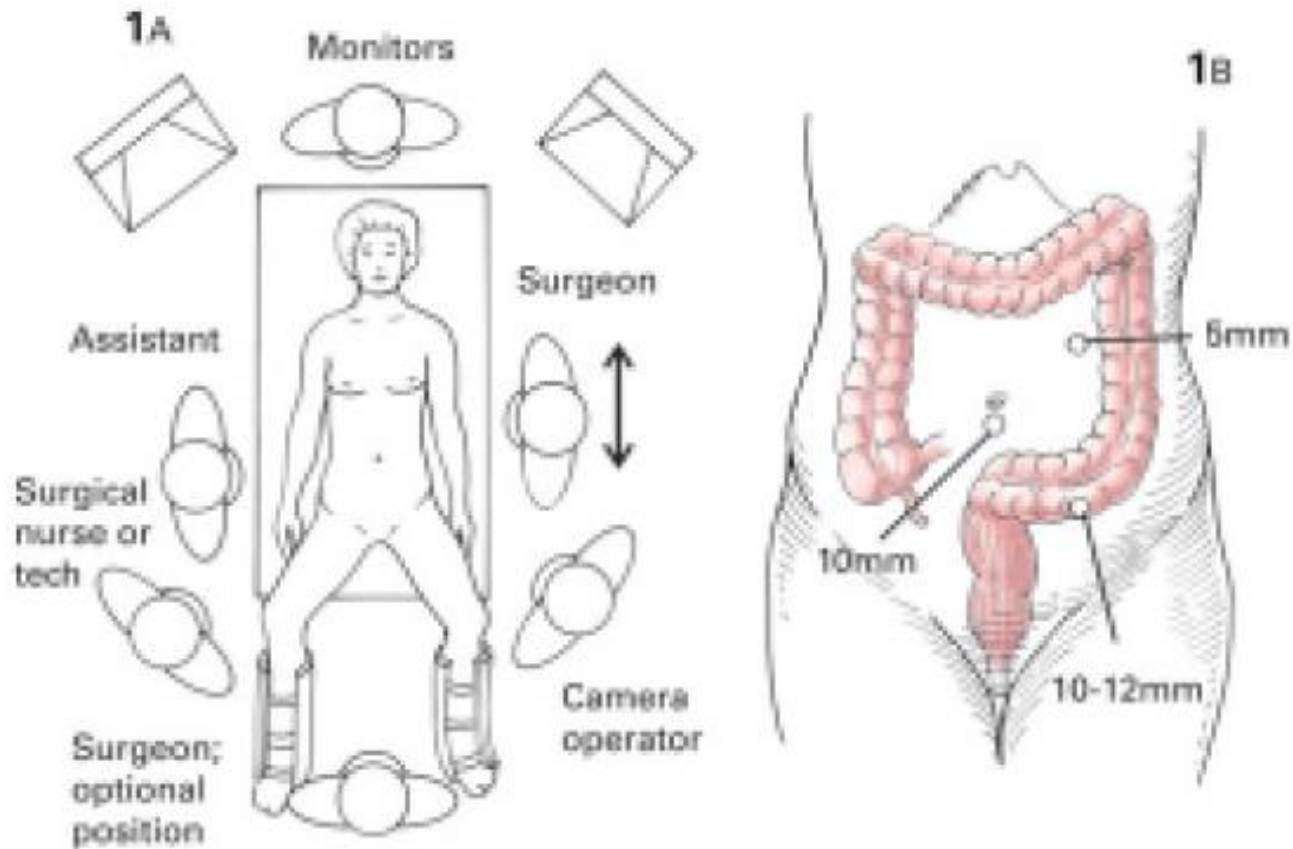
Left colectomy



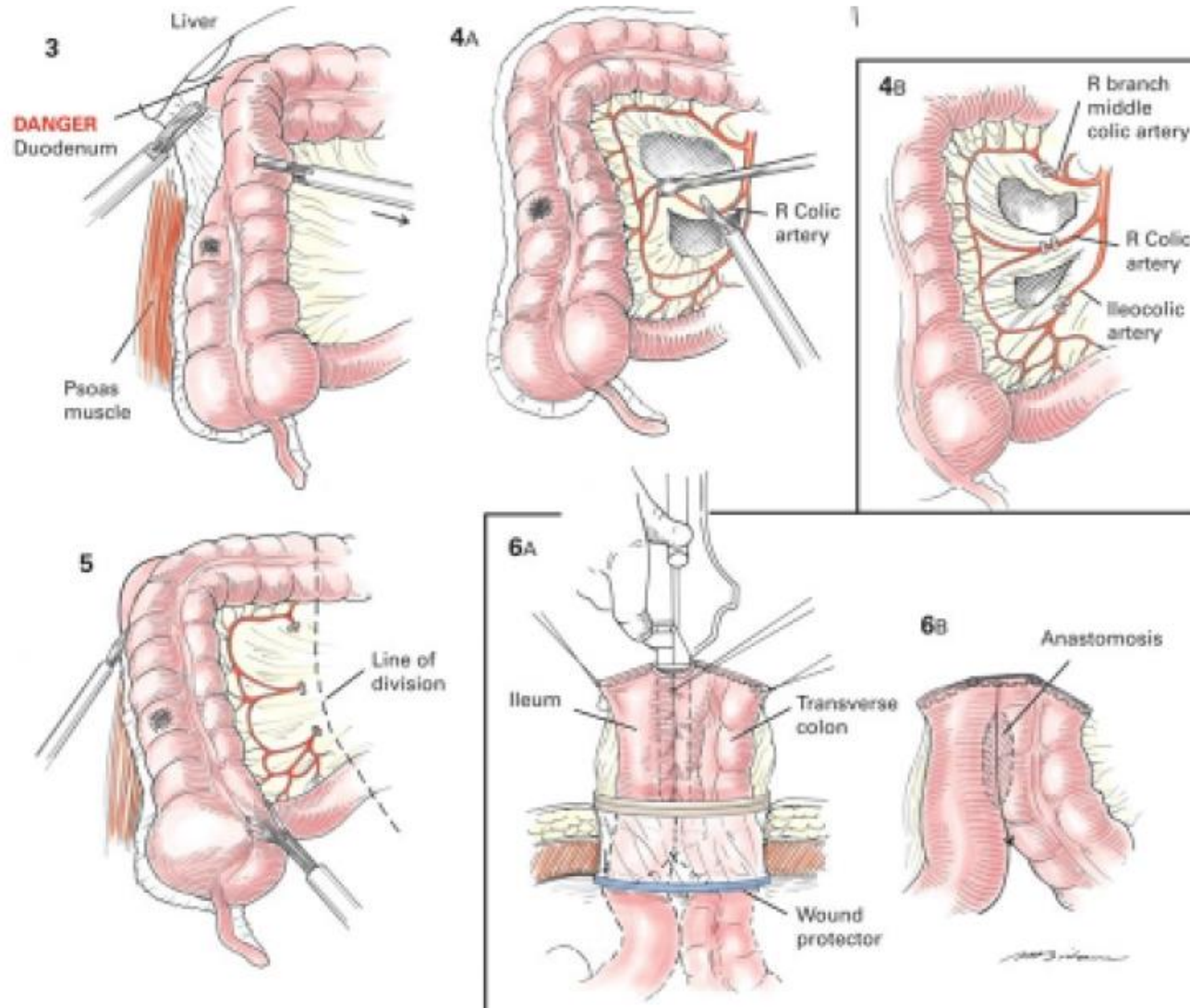
전방절제술

Anterior resection

Right Hemi-colectomy (우(반)결장 절제술)



Right Hemicolectomy

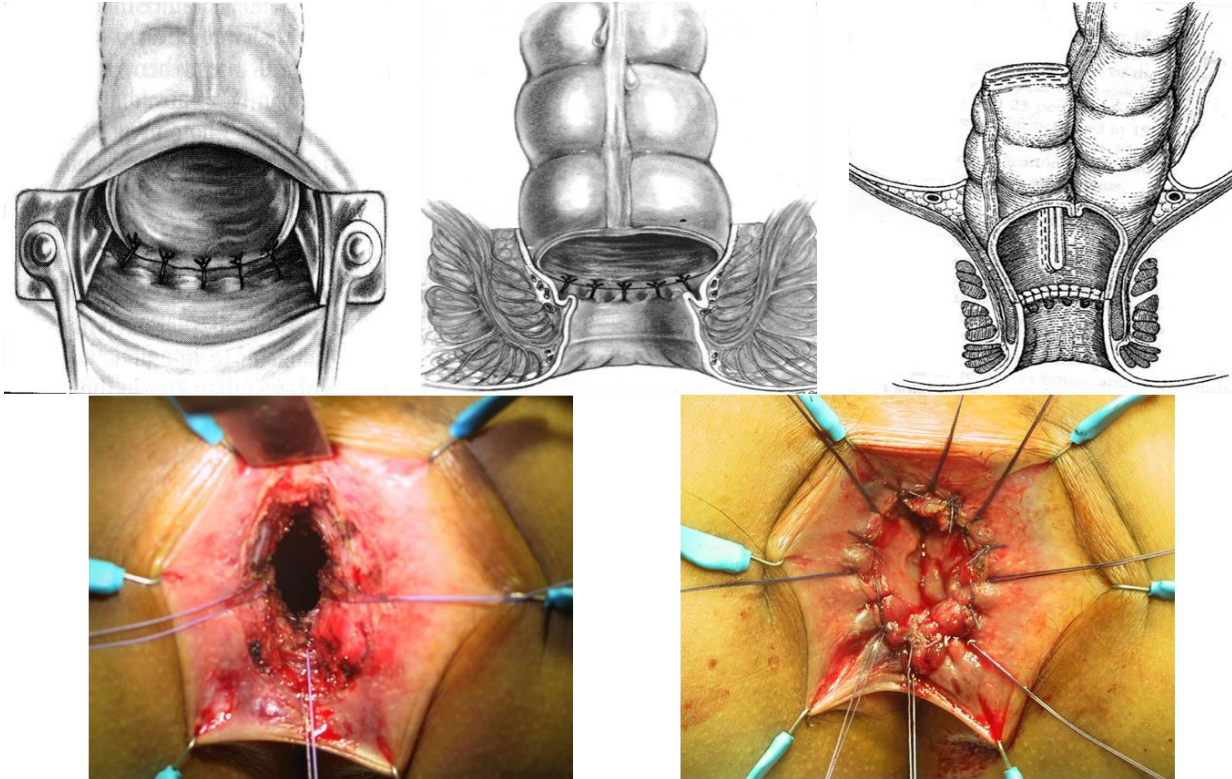


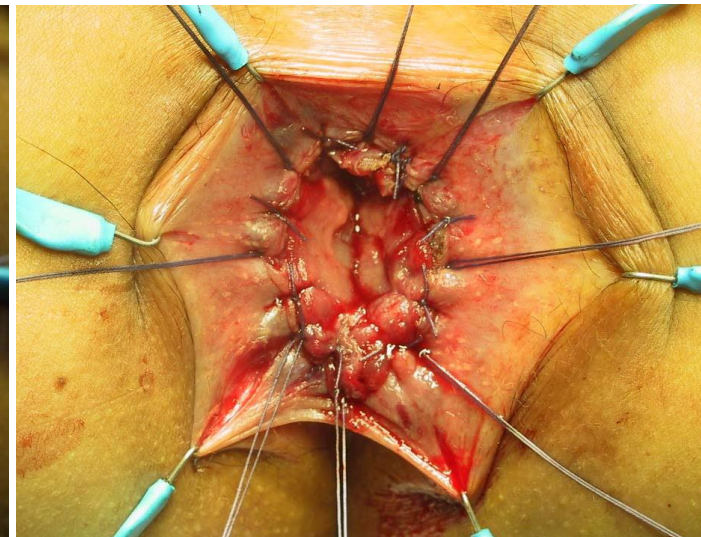
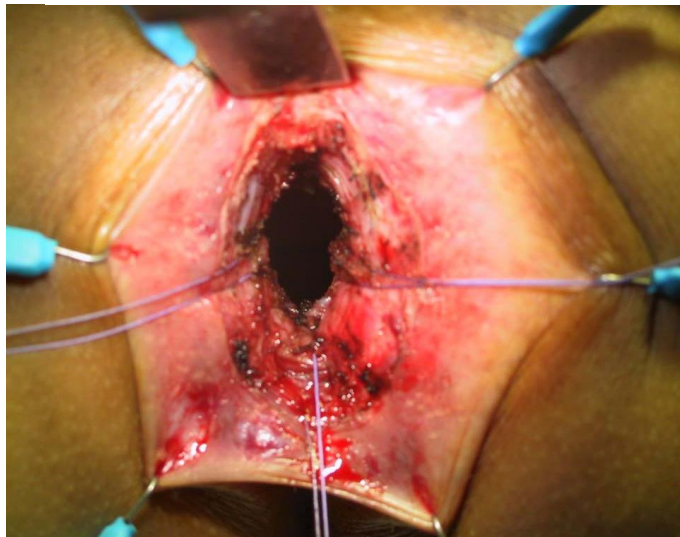
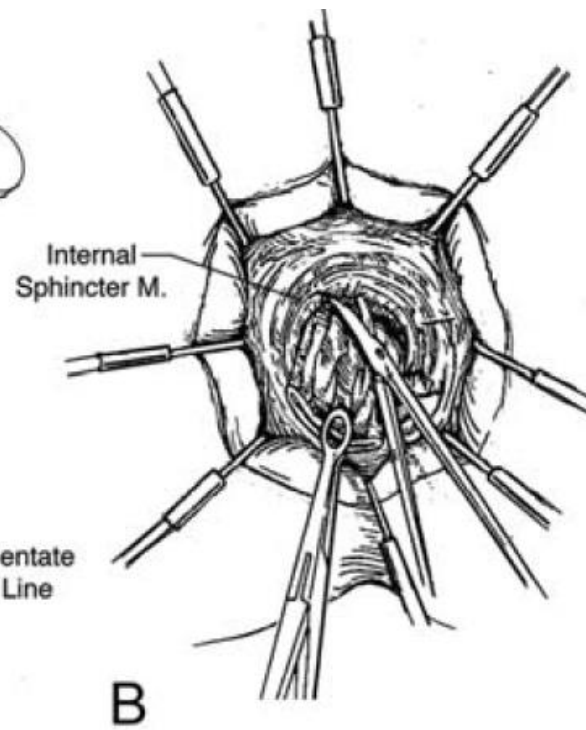
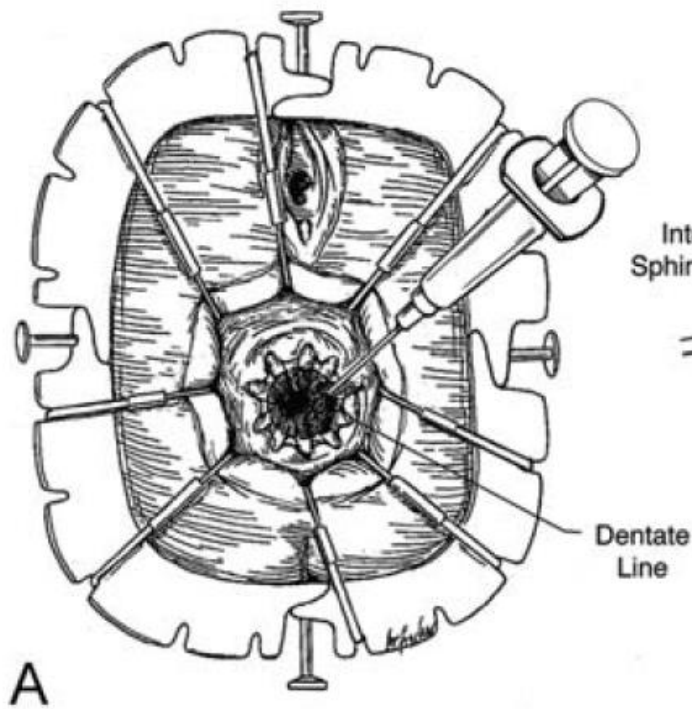
Proctectomy (= Resection of the Rectum)

항문(괄약근)보존 직장절제술

Intersphincteric resection, ultralow anterior resection

: 직장절제, ~~항문폐쇄, 말단형 에스결장루~~, 결장-항문 문합술





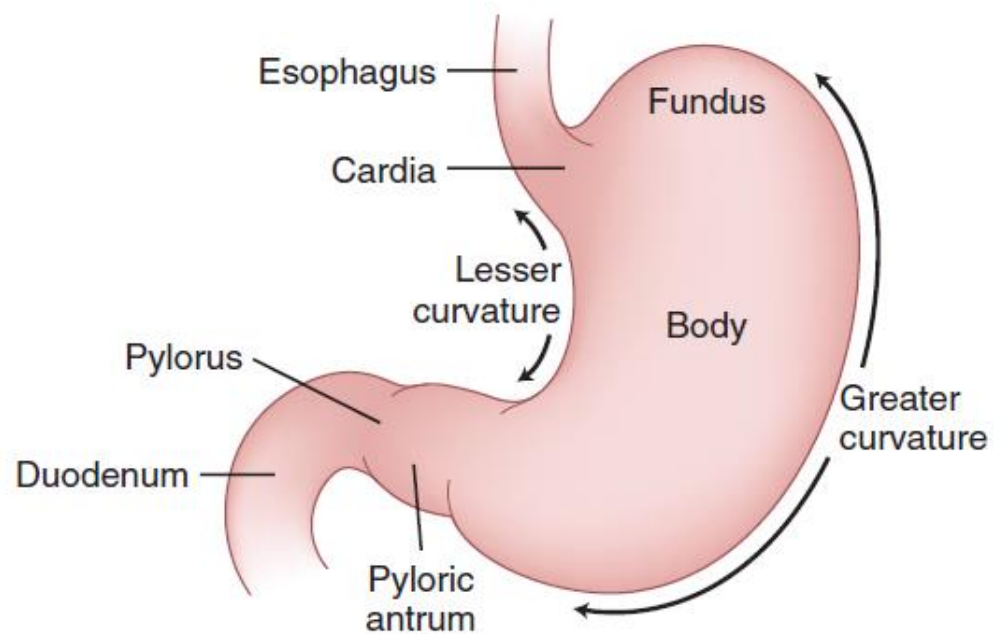
Gastrectomy

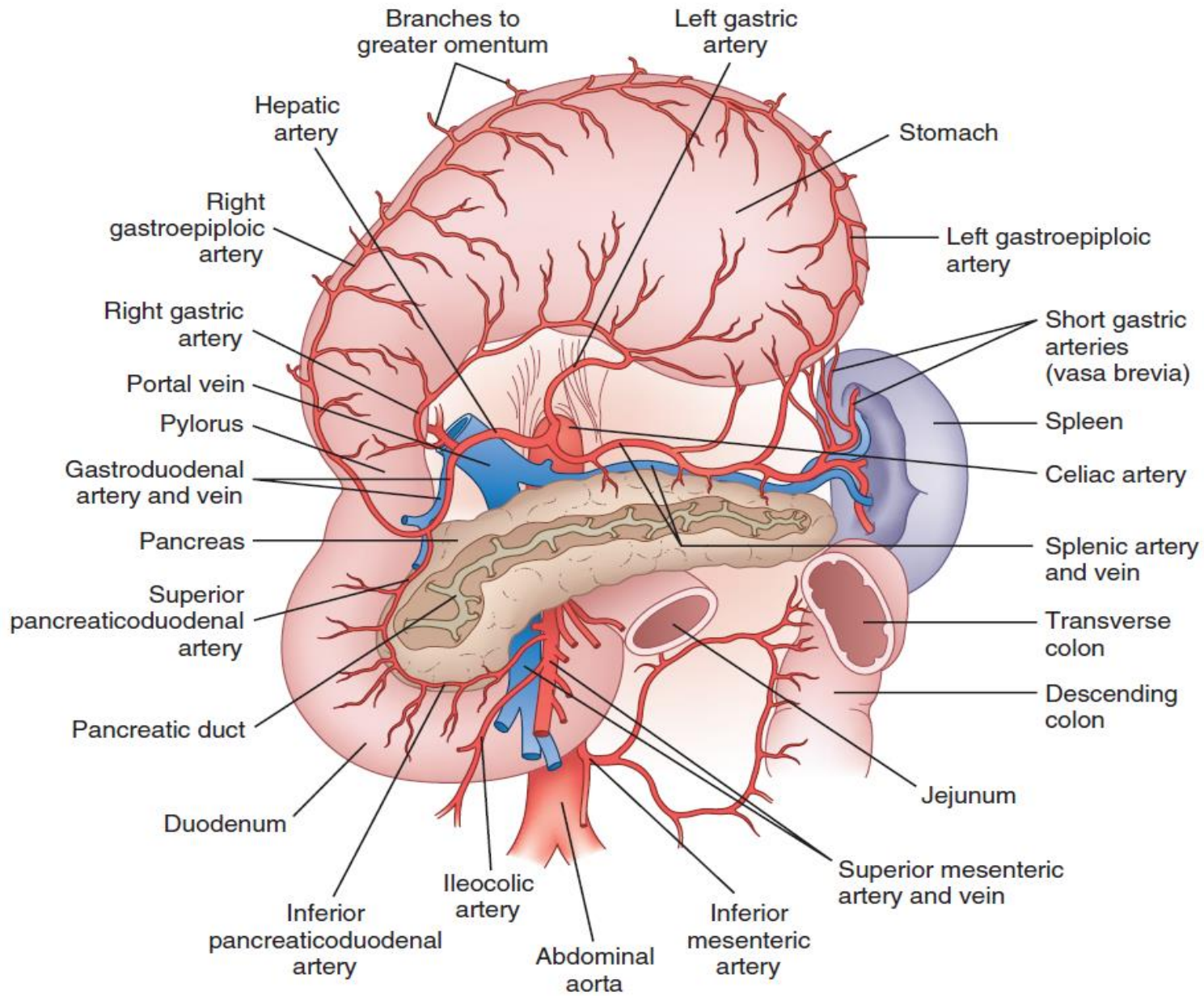
대장보다 복잡한 혈관

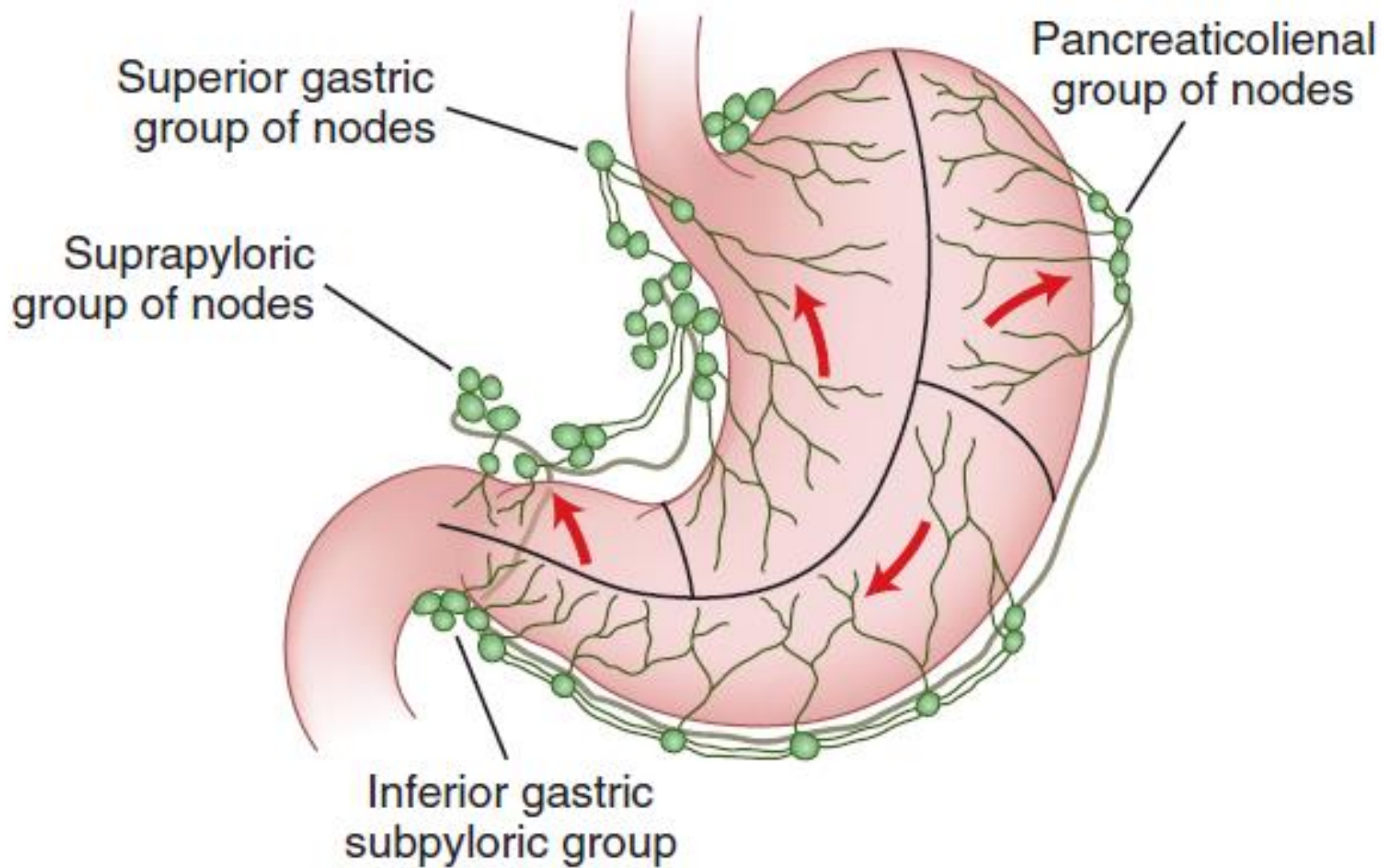
더 복잡한 림프 배액 구조 (림프절)

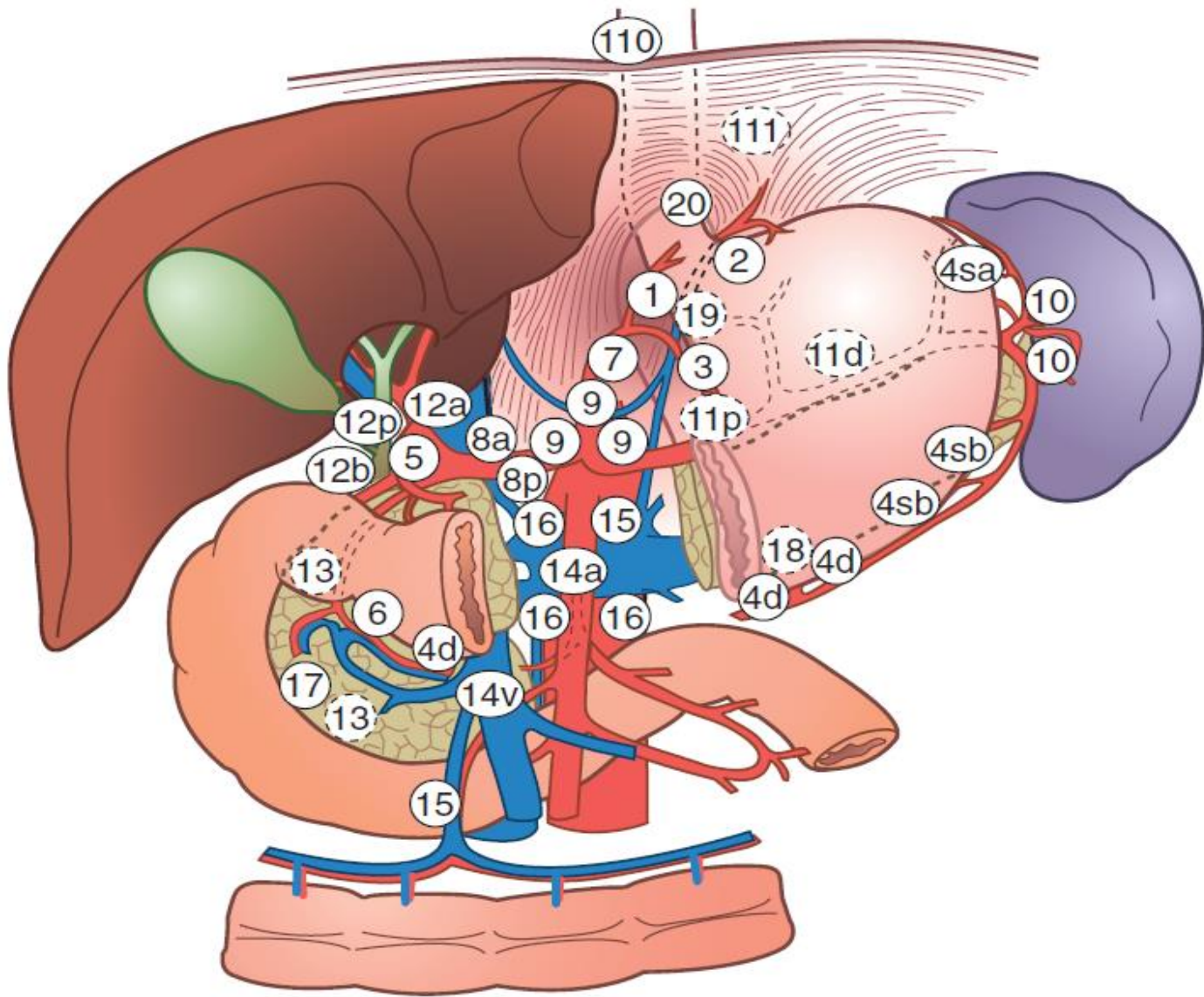
주변에 많은 장기 (간, 담도, 췌장, 비장, 대장, 십이지장)

다양한 문합 방법



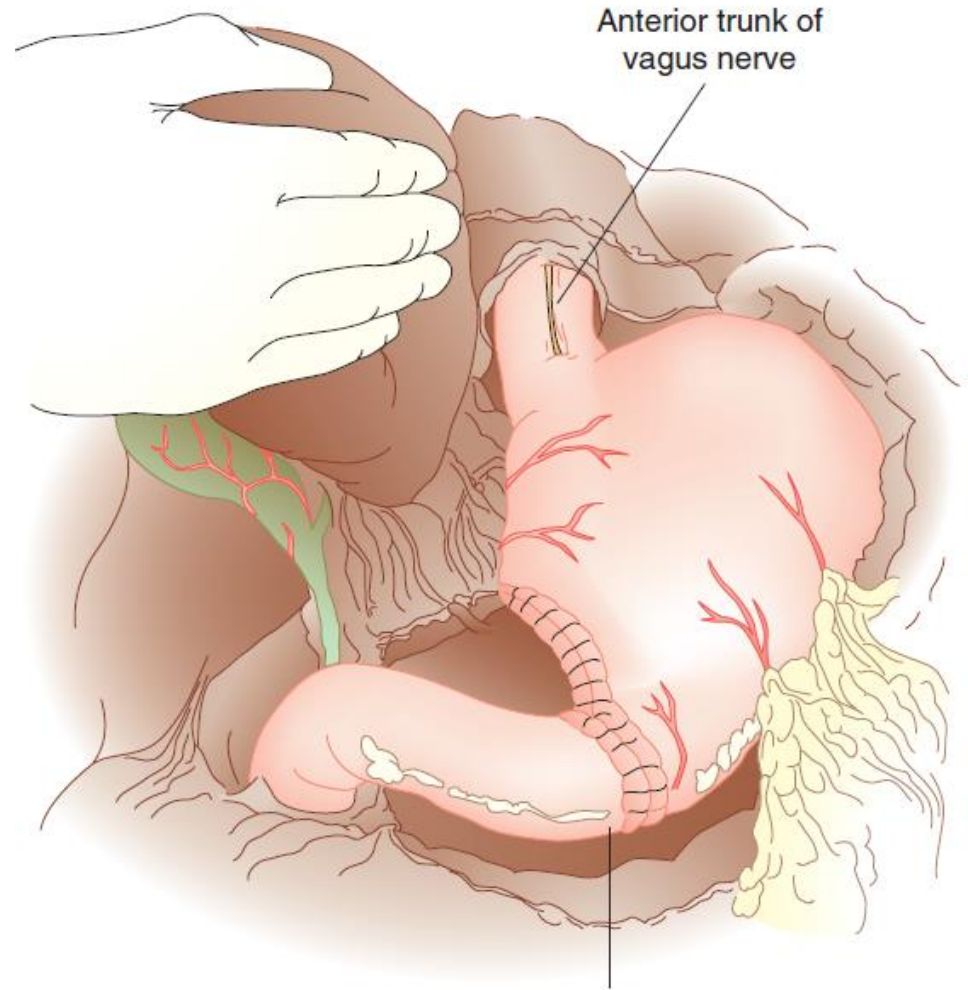
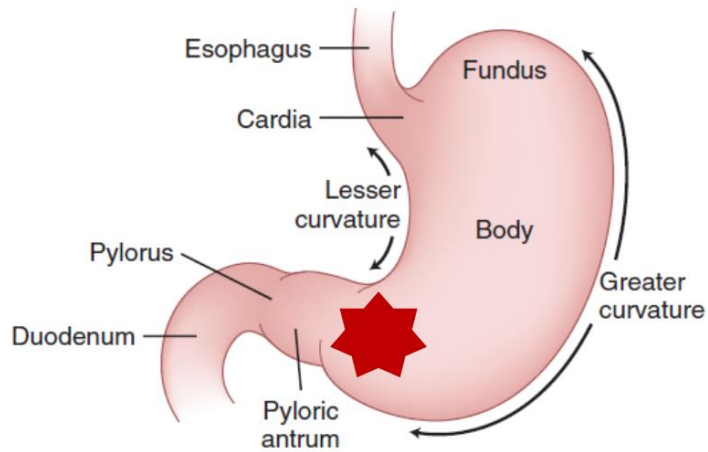






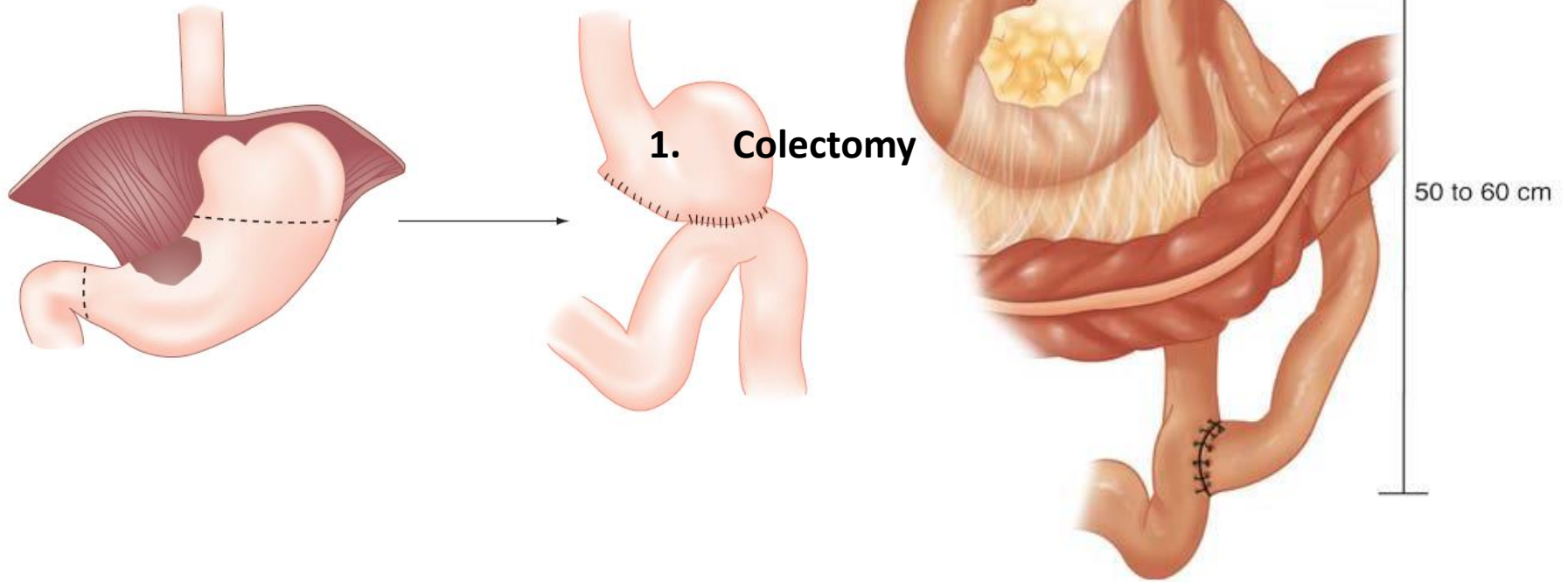
Gastrectomy

Hemi-gastrectomy
with Billroth I anastomosis
(gastro-**duodenal** anastomosis)



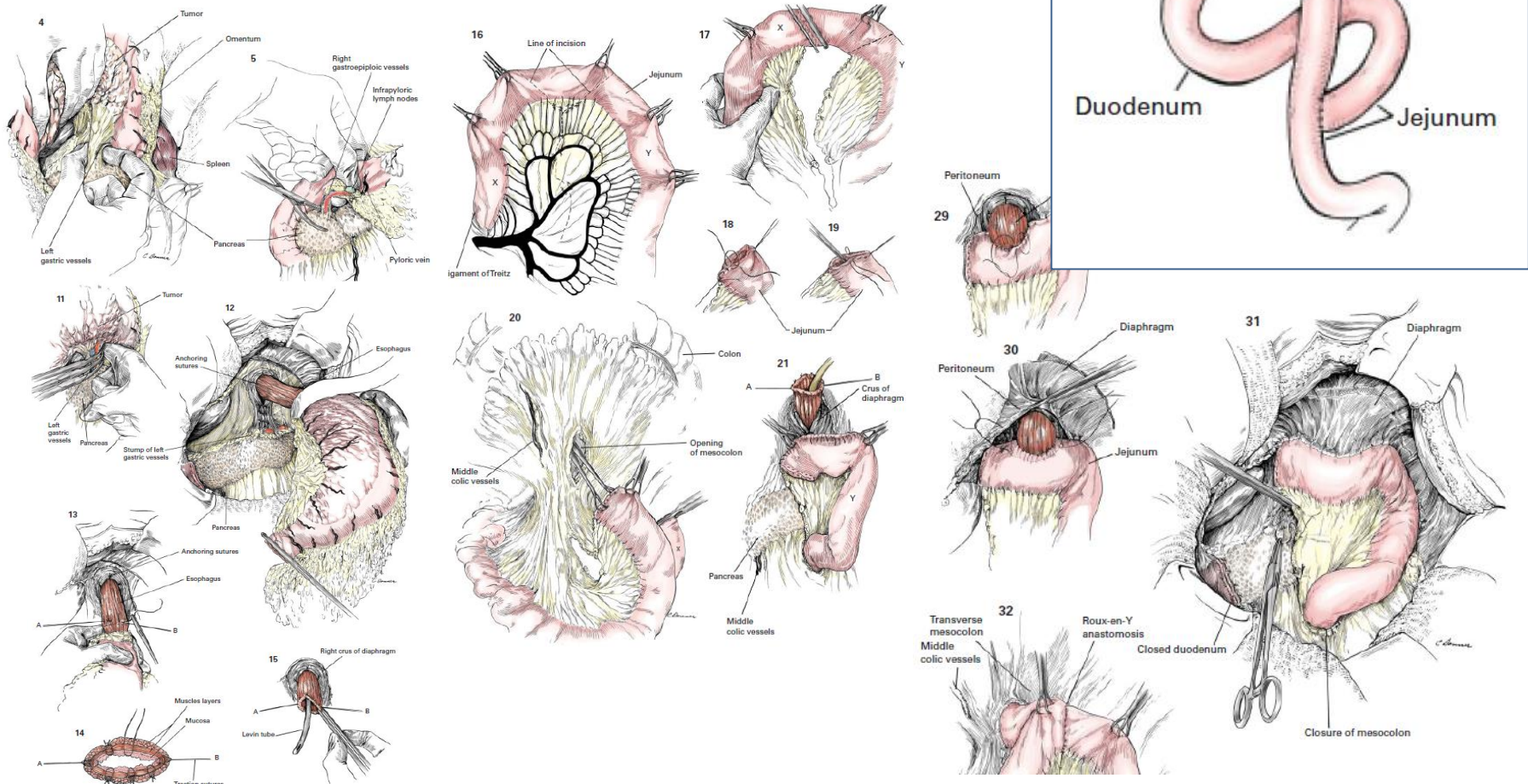
Gastrectomy

Hemi-gastrectomy
with Billroth II anastomosis
(gastro-**jejunal** anastomosis)



Gastrectomy

Total gastrectomy with **esophago**-jejunal anastomosis)



외과 수술의 이해

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1. 수술하는 질병에 대한 이해

- benign, malignant

2. 수술 방법에 대한 이해

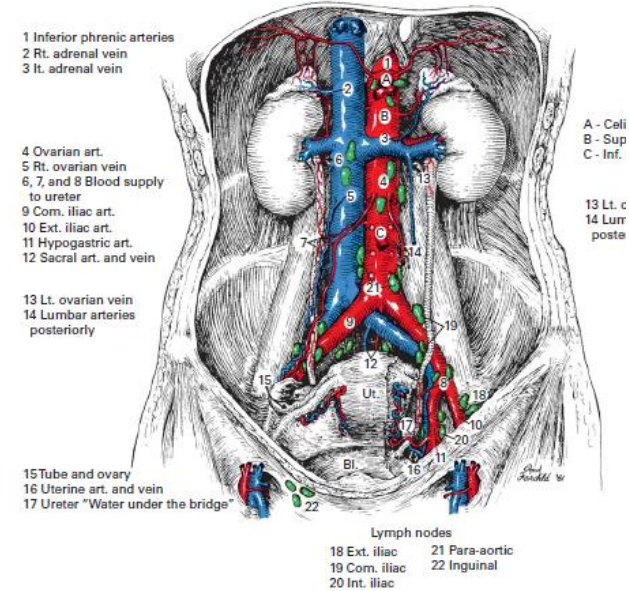
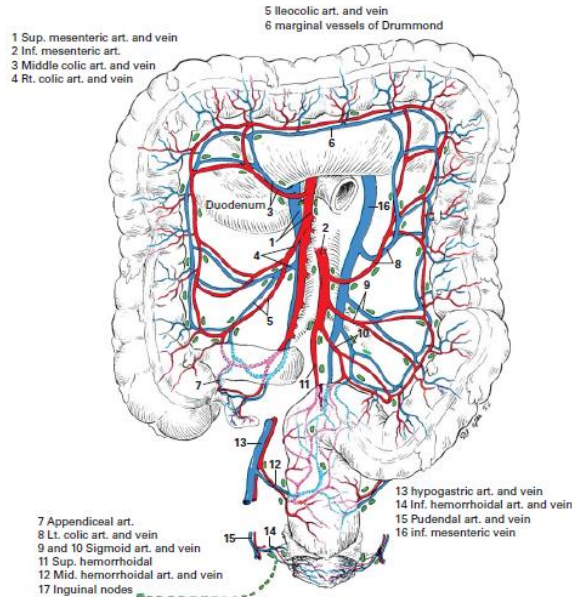
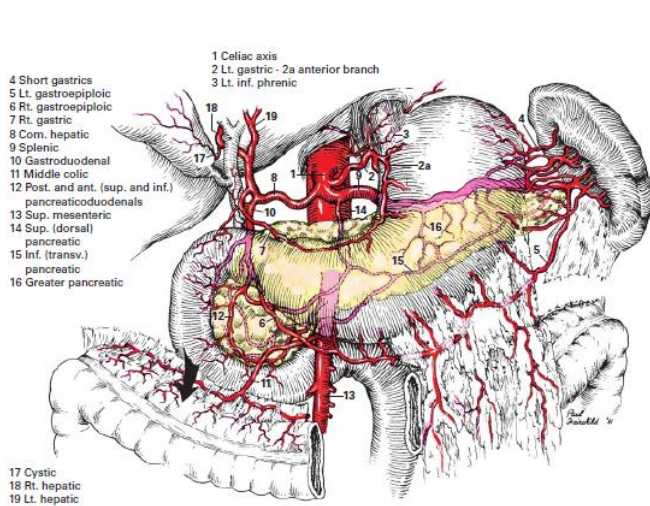
- surgical anatomy

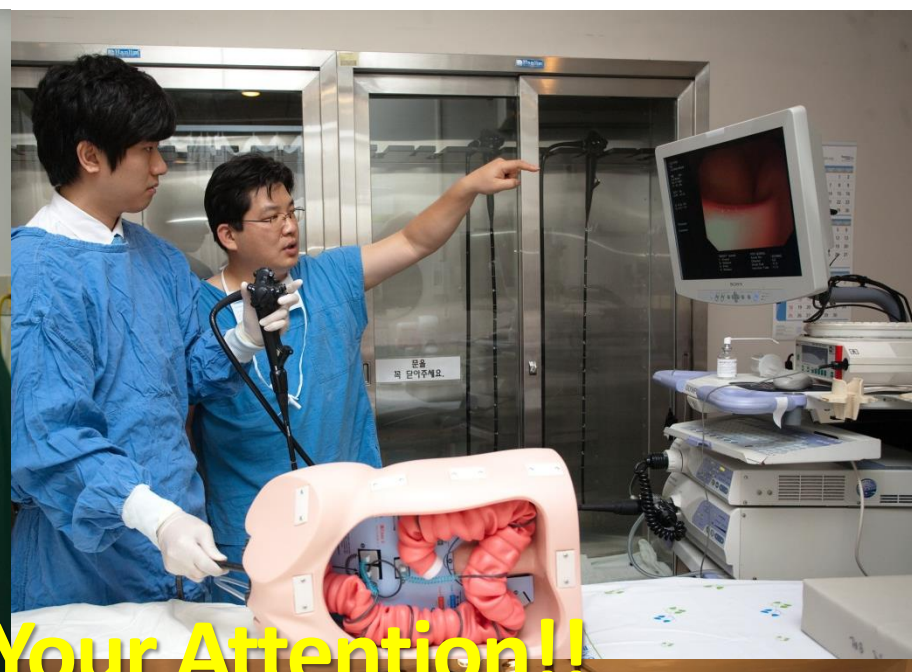
3. 수술 결과에 대한 이해

- functional change, oncologic outcomes, complication

Surgical anatomy of the abdomen

1. Upper abdomen (HBP, Stomach)
2. Colorectum, SB
3. Aorta, Inf. vena cava, retroperitoneum
4. Abdominal wall





Thank You For Your Attention!!

