

<p>ER & GS conference</p> <p>A 26 y/o female, Abdominal pain for 3 days</p> <p>Supervisor: VS 連楚明 Presentor: R1 劉邦民 102.09.18</p>	<p>Visit ER at 11:59</p> <ul style="list-style-type: none"> Chief complaint: 血便2天 Triage: IV T/P/R:36.2/88/14, BP=121/86, SpO2=100% Conscious: E4M6V5
<p>Present illness</p> <ul style="list-style-type: none"> LLQ cramping pain, ↑ pain with meal Loose bloody stool(鮮紅) with increased frequency (not blood-tinged on formed stool) No nausea/vomiting Fever(-), vaginal bleeding (-), dysuria(-) LMP: 3個月前(本來就irregular) 	<p>Past history</p> <ul style="list-style-type: none"> Allergy: nil Medical history <ul style="list-style-type: none"> – Denied hemorrhoid history Surgical history: nil
<p>Physical examination</p> <ul style="list-style-type: none"> Cons: alert Head & neck: pink conjunctiva, supple Chest: clear breath sounds, regular heart beats abdomen: soft, flat, LLQ tenderness (+), rebounding tenderness(+/-) Extremity: warm neurologic signs: no focal signs 	<p>Impression</p> <ul style="list-style-type: none"> Acute abdomen with bloody stool, favor diverticulitis

Management(12:10)

- NPO
- CBC/DC/platelet
- PT/aPTT
- Cr, GOT
- Stool OB, pus cell
- U/A, urine pregnancy test (EIA)
- KUB(after pregnancy test)
- D5S 80 ml/hr

Laboratory data

檢驗項目名稱	檢驗值	檢驗值單位
CBC/Platelet/DC	*****	
WBC	5.5	x1000/ul
RBC	5.26	million
Hb	11.7	gm/dl
Ht	36.0	%
MCV	68.4	fL
MCH	22.2	pg
MCHC	32.5	%
RDW	17.1	%
Platelet	187	x1000/ul

檢驗項目名稱	檢驗值	檢驗值單位
Differential count	*****	
Segmented Neutro.	59.7	%
Lymphocyte	27.7	%
Monocyte	10.8	%
Eosinophil	1.4	%
Basophil	0.4	%

檢驗項目名稱	檢驗值	檢驗值單位
Occult blood (Chem)	4+	
Pus cell	>100	/HPF

Laboratory data

檢驗項目名稱	檢驗值	檢驗值單位
Sediment	*****	
RBC	0-1	/HPF
WBC	5-7	/HPF
Epithelial cell	16-30	/HPF
Cast	Not Found	/LPF
.cast-amount	-	
Crystal	Not Found	/HPF
.Cry-amount	-	
Bacteria	+	
Others	Not Found	

檢驗項目名稱	檢驗值
Pregnancy-EIA	Negative

KUB



Management (15:08)

- Cravit 500 mg IV ST
- Abdominal CT with & without contrast

CT scan



Consult GI doctor(16:12)

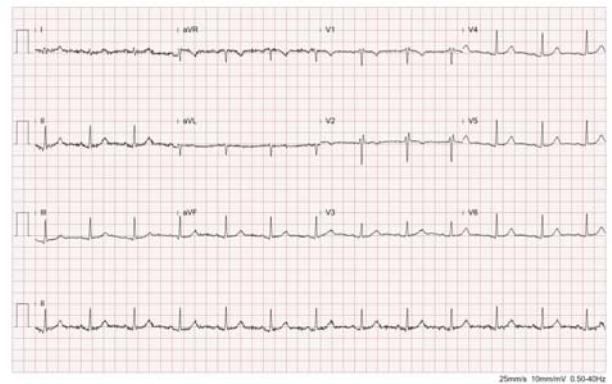
- Agree colorectal mass, nature?

Consult GS doctor(17:18)

- S-colon intussusception r/o colon tumor.
- Arrange laparoscopic LAR
- Check CEA and CA19-9

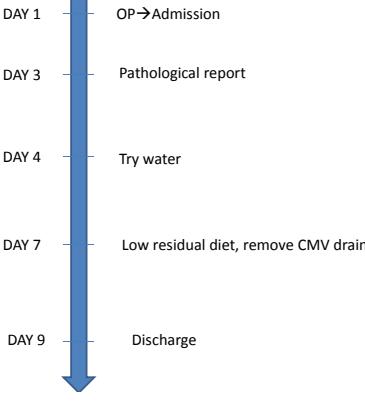
Management(18:30)

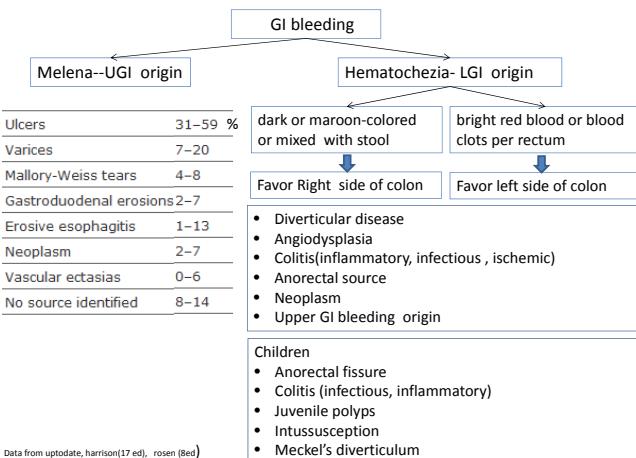
- Check CEA, CA19-9
- Pre-OP evaluation
 - EKG, CXR
 - Na, K, Glucose
- GS admission after OP (18:58)



Laboratory data

檢驗項目名稱	檢驗值	檢驗值單位	最小參考值	最大參考值
CEA	2.0	ng/mL	0	5
CA 19-9	13.4	U/mL	0	35
檢驗項目名稱	檢驗值	檢驗值單位		
Glucose	105	mg/dL		
Na	138	meq/L		
K	3.6	meq/L		

<h3>Impression</h3> <ul style="list-style-type: none"> Descending colon mass with intussusception 	<h3>OP finding</h3> <ul style="list-style-type: none"> Pre-OP diagnosis : R/O D-colon tumor with intussusception OP method: laparoscopic anterior resection OP finding: <ul style="list-style-type: none"> a cauliflower tumor (5x3x3 cm) with stalk located at distal D-colon Intussusception, reduction Post-OP diagnosis: D-colon tumor with intussusception
<h3>Hospitalization course</h3>  <p>DAY 1 OP→Admission</p> <p>DAY 3 Pathological report</p> <p>DAY 4 Try water</p> <p>DAY 7 Low residual diet, remove CMV drain</p> <p>DAY 9 Discharge</p>	<h3>Pathological report</h3> <ul style="list-style-type: none"> Pathology: pTisN0Mx, Adenocarcinoma Main tumor: polypoid and cauliflower-like tumor with a short stalk, 4.0 x 3.0 x 2.4 cm Histologic grade: Moderately differentiated Depth of tumor invasion: Invasion of lamina propria <ul style="list-style-type: none"> LNs: 0/15 Lymphovascular Invasion: absent Perineural Invasion: absent
<h3>Definite diagnosis</h3> <ul style="list-style-type: none"> Focal adenocarcinoma of distal descending colon tumor (pTisN0M0, stage 0) with intussusception status post laparoscopic anterior resection on DAY 2 	<h3>Discussion</h3>



GASTROENTEROLOGY

Adult intussusception in Asians: Clinical presentations, diagnosis, and treatment

Chun-Chao Chang,^{*1} Yang-Yuan Chen,^{1,2} Yung-Fa Chen,¹ Chun-Nan Lin¹ and Hsu-Heng Yen,¹
Hsing-Yuan Lou^{*}

^{*}Division of Gastroenterology, Department of Internal Medicine, Taipei Medical University Hospital and Digestive Disease Research Center, Taipei Medical University, ¹Taipei Medical University Wan-Fang Hospital, and ²Zhongxiao Branch, Taipei City Hospital, Taipei, and ³Changhua Christian Hospital, Changhua, Taiwan

Epidemiology

- 5% of all cases of intussusception
- 1-5% of intestinal obstruction
- 90% of cases are secondary to a pathological condition (lead point)
 - Polyp, diverticulum, stricture, neoplasm
 - 40% caused by primary or secondary malignancy
- Surgical resection rather than pneumatic or hydrostatic reduction

Table 1 Demographic data of patients with intestinal intussusception

Characteristic	n
Total patients	46
Mean age (years) (range)	58.2 (19-83)
Sex (male: female)	28:18
Enteric	
Benign	22
Malignant	3
Colonic	
Benign	13
Malignant	8

Table 2 Symptoms and signs of patients with intussusception (n= 46)

Symptoms and signs	n (%)
Nausea/vomiting	Enteric: 15/25. colonic: 9/21 24 (52.2)
Abdominal pain	46 (100)
Constipation/diarrhea	8 (17.4)
Bloody stool	Enteric: 1/25. colonic: 7/21 8 (17.4)
Coffee-ground vomitus	2 (4.3)
Fever/chills	3 (6.5)

- Mean duration: 13.5 days(1-90 days)
 - 25/46: acute symptom < 3 days, 21/46 symptoms > 7 days
 - Benign vs. malignant : 16.1 vs 5.2
 - Enteric vs. colonic : 20.1 vs 5.1

Table 3 Preoperative diagnostic studies

Investigation	No. performed	No. suggestive of intussusception	Accuracy (%)
Plain X-ray of the abdomen	37	0	0
Abdominal sonography	28	18	64.3
Abdominal computed tomography	35	31	88.6
Colonoscopy	11	6	54.6
Small-bowel series	5	3	60.0

Table 4 Etiology of intestinal intussusceptions

Etiology	Enteric (n = 25)	Colonic (n = 21)
Benign		
Idiopathic	5	2
Postoperative adhesion band	1	0
Diverticulum	1	0
Appendical inflammation	0	1
Inflammatory polyp	1	2
Hyperplastic polyp	0	1
Mesentery lymph node	1	0
Granuloma	1	0
Neurofibroma	1	0
Gastrointestinal stromal tumor	2	0
Hemartoma	3	1
Lipoma	6	6
Malignant		
Metastatic adenocarcinoma	1	4
Lymphoma	1	4
Leiomyosarcoma	1	0

Discussion

- Optimal treatment : no mandatory
 - operative reduction (25/46) (risk of tumor seeding)
 - Enteric: 19, colonic: 6
 - Benign: 20, malignant: 5
 - Stop maneuver if severe bowel ischemia or risk of perforation
 - resection of bowel segment was recommended
- 8 patient dead during following-up
 - 3 : malignant lymphoma, 2: adenocarcinoma, 1: heart failure
 - Postoperative complication(2): sepsis ; pneumonia

Conclusion

- Most intussusception was benign
- Most sensitive diagnose modality: abdominal CT
- Operative reduction was recommended for enteric intussusception but not for colonic origin
- The prognosis was good except in case of malignancy

Table 3 Etiologies of the 44 AIs

Tumor	Malignant	Enteric	Ileocolic	Colocolonic	Sigmoidorectal	Percentage
		6	3	3	0	27.3 (12/44)
		Borderline	1	0	0	2.3 (1/44)
		Benign	4	3	3	25.0 (11/44)
Nontumorous polyp		1	2	1	0	9.3 (4/44)
Intestinal inflammatory disease		2	3	0	0	11.4 (5/44)
Anatomy abnormality		0	2	0	0	4.5 (2/44)
Idiognic		4	1	0	0	11.4 (5/44)
Percentage		45.5 (20/44)	34.1 (15/44)	15.2 (5/44)	2.3 (1/44)	100.0 (44/44)

World J Gastroenterol 2009 July 14; 15(26): 3303-3308

Diagnosis of Colon Cancer Differs in Younger versus Older Patients despite Similar Complaints

Offir Ben-Ishay MD¹, Eran Brauner MD¹, Zvi Peled MD¹, Amira Othman RN¹, Benjamin Person MD^{1,2} and Yoram Kluger MD FACS¹

¹Department of General Surgery and ²Division of Colorectal Surgery, Rambam Health Care Campus, affiliated with Rappaport Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel

Method

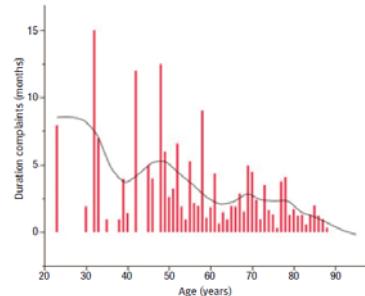
- Retrospective study
- 2000-2009
- Department of general surgery at Rambam health campus, Haifa
- Proven diagnosis of colon cancer
- Exclusion: rectal or sigmoid cancer
- 236 patient

Table 2. Comparison of characteristics and symptoms between the two age groups

	Group 1 ≤ 50 yr (n=31)	Group 2 ≥ 50 yrs (n=205)	P value
Age (yr)	41.4 ± 7	71.9 ± 10.2	0.0001
Male gender (%)	48.4	53.7	0.7
Side of malignancy (left) (%)	47.9	71.0	0.14
Pain (%)	64.5	49.3	0.13
Diarrhea (%)	16.1	10.2	0.35
Constipation (%)	29.0	29.3	1.00
Vomiting (%)	19.4	10.2	0.14
Weight loss (%)	29.0	33.2	0.84
Rectal bleeding (%)	25.8	19.0	0.47
Melena (%)	0.0	3.4	0.60
Change in bowel habits (%)	51.6	40.0	0.24
Duration of complaints (mon)	5.3	2.4	0.002
Overall survival (%)	58.1	61.0	0.84



Duration of complain prior to diagnosis



- Mean duration : 5.3 vs 2.4 months (P=0.002)

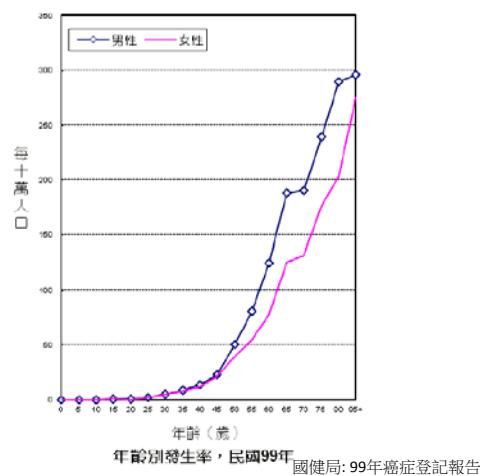
Table 3. Pathological staging in the two groups

Stage % (n)	Group 1 (n=31)	Group 2 (n=205)	Pvalue
1	3.2 (1)	15.6 (32)	0.06
2a	29.0 (9)	29.3 (60)	0.85
2b	3.2 (1)	1.0 (2)	0.34
3a	0.0 (0)	4.9 (10)	0.37
3b	12.9 (4)	14.1 (29)	1.00
3c	12.9 (4)	10.24 (21)	0.75
4	38.7 (12)	21.5 (44)	0.035

- Survival curve of two group (log rank test): no difference(p=0.92)

Conclusion

- It seem to younger patient are more often diagnosed late, at advance stage
- Alertness to patient's complaint, together with evaluation regardless with of age but according to symptoms and clinical presentation was crucial
- Large-scale population-based studies are need to confirm this trend



年齢	性別			年齢	性別		
	男性	女性	合計		男性	女性	合計
00-04 歲	0	0	0	45-49 歲	183	124	307
05-09 歲	0	0	0	50-54 歲	292	217	509
10-14 歲	0	0	0	55-59 歲	415	250	665
15-19 歲	0	1	1	60-64 歲	409	223	632
20-24 歲	5	2	7	65-69 歲	434	257	691
25-29 歲	6	8	14	70-74 歲	374	236	610
30-34 歲	27	18	45	75-79 歲	321	208	529
35-39 歲	56	37	93	80-84 歲	237	170	407
40-44 歲	80	56	136	85 歲以上	138	122	260
				合計	2977	1929	4906

國健局: 99年癌症登記報告