

Case Discussion

17/7/2017

Int1.ธนากรณ์ โชคิເວີມ

Objectives

- Approach to Acute RLQ pain in female
- Diagnosis of Acute appendicitis
- Treatment of Acute Pelvic inflammatory disease

Patient identification

- ผู้ป่วยหญิงไทย อายุ 18 ปี G1P1 last 1 ปี, no underlying disease
- รับไว้ในโรงพยาบาลภูเขียว 21/06/2017
- CC : ปวดท้อง 2 วัน PTA
- PI : 2 วันPTA ผู้ป่วยมีไข้ ร่วมกับรู้สึกปวดท้องทั่วๆ โดยเฉพาะบริเวณกลางท้อง มีคลื่นไส้อาเจียน 1 ครั้ง ถ่ายเหลว 1 ครั้ง
5 ชั่วโมงPTA ผู้ป่วยมีไข้สูง ปวดท้องย้ำมานานที่ท้องน้อยด้านขวา ปวดบีบๆเป็นพักๆ ปวดมากขึ้น pain score 10/10 คลื่นไส้อาเจียนเป็นน้ำลาย 4-5 ครั้ง ถ่ายเหลว 6-7 ครั้ง ไม่มีมูกเลือดปนอ่อนเพลีย กินอาหารไม่ค่อยได้ ปัสสาวะปกติ ไม่มีเลือดออกทางช่องคลอด ไม่มีตกขาวผิดปกติ ไม่มีไอเจ็บคอ น้ำมูก ไม่เคยมีอาการแบบนี้มาก่อน อาการไม่ดีขึ้น จึงมาพร.ภูเขียว

Patient identification

- PH :

- No underlying disease
- No history of surgery
- No current medication
- No allergy
- G1P1 last 1 ปี
- LMP ปลายเดือนพ.ค.
- ฝัง Implanon Left arm 11 เดือนที่ผ่านมา
- มีประวัติ unsafe SI

- FH :

- No history of cancer

Physical Examination

- Vital signs : BT 38.9 C, BP 100/60 mmHg, PR 158 bpm full and regular, RR 22 /min
- BW 43 kg, O₂sat 100% RA
- General appearance : Good consciousness, looked fatigued, no pallor, no jaundice, no cyanosis
- HEENT : not pale conjunctivae, no icteric sclerae, pharynx not injected, tonsil not enlarged, dry lips, no sunken eyeballs
- Respiratory system : clear and equal breath sound

Physical Examination

- **Cardiovascular system** : tachycardia, pulse full and regular, normal S1, S2 , no murmur
- **Abdomen** : no surgical scar, normoactive bowel sound, tender at RLQ, guarding, no rebound tenderness
- **Extremities** : no edema, no rash, no wound

Physical Examination

- PV : MIUB
 - Vagina – massive purulent discharge, normal mucos
 - Cervix – marked cervical motion tenderness., massive purulent discharge per os
 - Uterus – normal size of uterus, tender
 - Adnexa – can't be palpated abnormal mass, tender both side Rt. > Lt
 - Cul de sac – no bulging

Problem lists

- Acute fever with acute RLQ pain with GI symptoms in sexually active young women
- PV : purulent discharge per os, marked cervical motion tenderness, tender at both adnexa Rt.>Lt.

Differential Diagnosis

- GI
 - Acute appendicitis
 - Infectious gastroenteritis
 - Inflammatory bowel disease
 - Irritable bowel syndrome
 - Bowel obstruction
 - Diverticulitis
 - Mesenteric adenitis
 - Hernia
 - Tumor
- GU
 - Urinary tract infection
 - Renal/Ureteric colic
- OB-GYNE
 - Ectopic pregnancy
 - Pelvic inflammatory disease
 - Torsion ovarian cyst/tube
 - Tubo-ovarian abscess
 - Ovarian cyst ruptured

Differential Diagnosis

- I. Acute appendicitis
- II. Acute Pelvic inflammatory disease
- III. Adnexal torsion

I. Acute Appendicitis

Table 30-2

Scoring systems

ALVARADO SCORE ³⁷		APPENDICITIS INFLAMMATORY RESPONSE SCORE ^{38,39}		
Findings	Points	Findings	Points	
Migratory right iliac fossa pain	1	Vomiting	1	
Anorexia	1	Pain in the right inferior fossa	1	
Nausea or vomiting	1	Rebound tenderness or muscular defense		
Tenderness: right iliac fossa	2		Light 1	
Rebound tenderness right iliac fossa	1		Medium 2	
Fever $\geq 36.3^{\circ}\text{C}$	1		Strong 3	
Leukocytosis $\geq 10 \times 10^9$ cells/L	2	Body temperature $\geq 38.5^{\circ}\text{C}$	1	
Shift to the left of neutrophils	1	Polymorphonuclear leukocytes		
= 7/10		70%–84% 1 $\geq 85\%$ 2		
		White blood cell count	10.0–14.9 $\times 10^9$ cells/L 1 $\geq 15.0 \times 10^9$ cells/L 2	
		C-reactive protein concentration	10–49 g/L 1 ≥ 50 g/L 2	
Score: <3: Low likelihood of appendicitis 4–6: Consider further imaging ≥7: High likelihood of appendicitis		Score: 0–4: Low probability. Outpatient follow-up. 5–8: Indeterminate group. Active observation or diagnostic laparoscopy. 9–12: High probability. Surgical exploration.		

II. Acute Pelvic inflammatory disease

- Symptoms
 - Purulent vaginal discharge
 - Sometimes nausea and emesis

II. Acute Pelvic inflammatory disease

- Signs
 - Vital signs : elevated temperature, tachycardia
 - Abdominal examination :
 - Distention and decreased bowel sound caused by secondary ileus
 - Marked directed and rebound abdominal tenderness
 - PV :
 - Cervical motion tenderness
 - Bilateral adnexal tenderness

II. Acute Pelvic inflammatory disease

- The Centers for Disease Control and Prevention guidelines for diagnosing PID state
 - High risk for STIs
 - Pelvic or lower abdominal pain
 - Uterine, cervical, or adnexal motion tenderness on exam
 - Oral temperature of 38.3 C or higher
 - Abnormal cervical or vaginal mucopurulent discharge or cervical friability
 - Presence of abundant numbers of WBCs on saline microscopy of vaginal secretions (eg. >15 to 20 WBCs per hpf or more WBCs than epithelial cells)
 - Documentation of cervical infection with N. gonorrhoea or C. trachomatis

II. Acute Pelvic inflammatory disease

- The Centers for Disease Control and Prevention guidelines for diagnosing PID state
 - Elevated CRP or ESR
 - Pelvic imaging : thickened, fluid-filled tubed/oviducts with or without free pelvic fluid, or tubo-ovarian complex
 - Laparoscopic abnormalities : tubal erythema, edema, and adhesions; purulent exudate or cul-de-sac fluid; and abnormal fimbriae
 - Histological evidence of endometritis in a biopsy

II. Acute Pelvic inflammatory disease

- Indication for hospitalization
 - Pregnancy
 - Lack of response or tolerance to oral medications
 - Nonadherence to therapy
 - Inability to take oral medication due to nausea and vomiting
 - Severe clinical illness : high fever, nausea, vomiting, severe abdominal pain
 - Complicated PID with pelvic abscess (including tuboovarian abscess)
 - Possible need for surgical intervention or diagnostic exploration for alternative etiology (eg, appendicitis)

II. Acute Pelvic inflammatory disease

- Treatment
 - Polymicrobial infection
 - The most organisms : Chlamydia trachomatis, Neisseria gonorrhoeae
- Inpatient therapy : first-line therapies
 - **Cefoxitin** (2 g iv q 6 hr) or **Cefotetan** (2 g iv q 12 hr) + **Doxycycline** (100 mg po q 12 hr)
 - **Clindamycin** (900 mg iv q 8 hr) + **Gentamicin** loading dose (2 mg/kg of BW) followed by a maintenance dose (1.5 mg/kg) q 8 hr. single daily iv dosing of Gentamicin may be substituted for three times daily dosing

II. Acute Pelvic inflammatory disease

- Outpatient therapy : first-line therapies – with or without **metronidazole** (500 mg twice a day for 14 days)
 - **Ceftriaxone** (250 mg im in a single dose) + **Doxycycline** (100 mg po twice a day for 14 days)
 - **Cefoxitin** (2 g im in a single dose) concurrently with **probenecid** (1 g po in a single dose) + **Doxycycline** (100 mg po twice a day for 14 days)
 - Other parenteral 3rd-generation cephalosporins, such as **Cefotaxime** (1 g im in a single dose) or **ceftizoxime** (1 g im in a single dose) + **Doxycycline** (100 mg po twice a day for 14 days)

III. Adnexal torsion

- **Symptoms**
 - Severe and constant pain
 - Frequently coincides with activity; lifting, exercise, intercourse
 - Autonomic reflex response; nausea, emesis, tachycardia, apprehension
- **Signs**
 - Mild temperature elevation, tachycardia
 - Leukocytosis
 - Abdomen : localized direct and rebound tenderness in the lower quadrant
 - PV : *a large pelvic mass on bimanual examination

Provisional Diagnosis

- Acute appendicitis

Acute appendicitis

Reference : Schwartz's Principles of Surgery 10th edition



Epidemiology

- Appendicitis is one of the most common surgical emergencies in contemporary medicine.
- The lifetime risk of developing appendicitis
 - 8.6% for males
 - 6.7% for females
- The highest incidence in the second and third decades of life.

Etiology and Pathophysiology

- The main etiologic factor
 - Obstruction of the lumen due to fecaliths or hypertrophy of lymphoid tissue
 - The frequency of obstruction rises with the severity of the inflammatory process

Etiology and Pathophysiology

- The proximal loop obstruction of the appendiceal lumen → a closed-loop obstruction
→ continuing normal secretion by the appendiceal mucosa → distension of the appendix →
 - stimulates the nerve endings of visceral afferent stretch fibers → vague, dull, diffuse pain in the mid-abdomen or lower epigastrium
 - Increases from continued mucosal secretion and from rapid multiplication of the resident bacteria of the appendix → nausea and vomiting, and the visceral pain increase
- ↑A pressure in the organ → ↑venous pressure but arterial inflow continue
→engorgement and vascular congestion

Etiology and Pathophysiology

- The inflammatory process soon involves the serosa of the appendix → and in turn the parietal peritoneum → the characteristic shift in pain to the right lower quadrant
- The mucosa of the appendix is susceptible to impairment of blood supply → bacterial invasion
 - The antimesenteric border : the poorest blood supply → Ellipsoidal infarction
 - Distension, bacterial invasion, compromise of the vascular supply, and infarction progress → Perforation : usually on the antimesenteric border just beyond the point of obstruction

Microbiology

- Escherichia coli
- Bacteroides : gangrene of perforated appendicitis
- Fusobacterium nucleatum/necrophorum

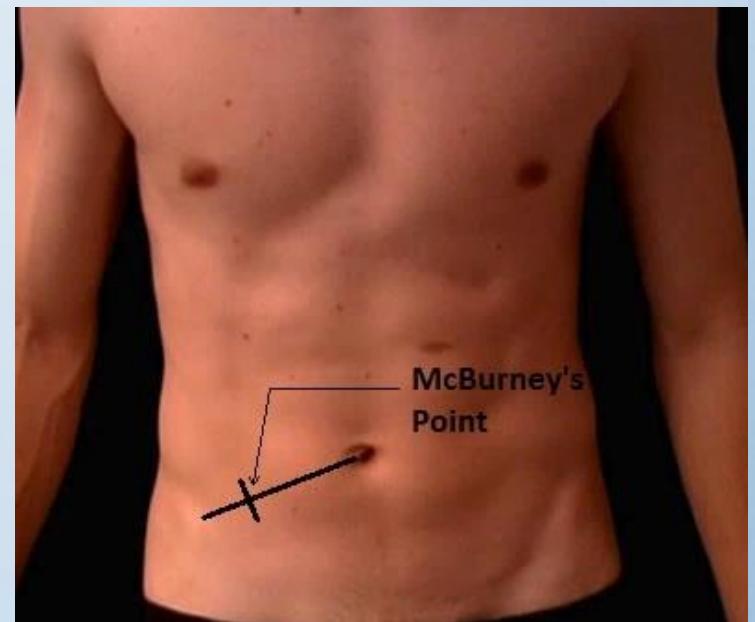
Clinical Presentation

Symptoms	Sensitivity %	Specificity %
1. Perumbilical pain, diffuse pain → RLQ pain	81	53
2. Nausea	58	36
3. Vomiting	51	45
4. Anorexia	68	36

- GI symptoms >> Pain : Gastroenteritis
- Diarrhea : association with perforation, especially in children

Clinical Presentation

- **Vital signs** : may be minimally altered
- **Abdomen** : peritoneal irritation
 - move slowly and prefer to lie supine
 - Tenderness with a maximum at or near McBurney's point
 - Guarding in the right iliac fossa
 - Rebound tenderness
 - *Indirect tenderness (Rovsing's sign)
 - *Indirect rebound tenderness
 - Psoas sign, Obturator sign



Case

- ปวดท้องบริเวณกลางท้อง แล้วย้ายมาปวดที่ท้องน้อยด้านขวา ปวดมากขึ้น pain score 10/10
- ไข้
- คลื่นไส้อาเจียนเป็นน้ำลาย 4-5 ครั้ง ถ่ายเหลว 6-7 ครั้ง
- Vital signs : BT 38.9 C, BP 100/60 mmHg, PR 158 bpm full and regular, RR 22 /min
- **Abdomen** : no surgical scar, normoactive bowel sound, tender at RLQ, guarding, no rebound tenderness

Investigation

Table 30-2

Scoring systems

ALVARADO SCORE ³⁷		APPENDICITIS INFLAMMATORY RESPONSE SCORE ^{38,39}	
Findings	Points	Findings	Points
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<u>Leukocytosis $\geq 10 \times 10^9 \text{ cells/L}$</u>	2	Body temperature $\geq 38.5^{\circ}\text{C}$	1
<u>Shift to the left of neutrophils</u>	1	<u>Polymorphonuclear leukocytes</u>	
			70%–84% 1 $\geq 85\%$ 2
		<u>White blood cell count</u>	
			10.0–14.9 $\times 10^9 \text{ cells/L}$ 1 $\geq 15.0 \times 10^9 \text{ cells/L}$ 2
		<u>C-reactive protein concentration</u>	
			10–49 g/L 1 $\geq 50 \text{ g/L}$ 2

Score: <3: Low likelihood of appendicitis
4–6: Consider further imaging
≥7: High likelihood of appendicitis

Score: 0–4: Low probability. Outpatient follow-up.
5–8: Indeterminate group. Active observation or diagnostic laparoscopy.
9–12: High probability. Surgical exploration.

Investigation (21/06/2017)

- Urine Pregnancy test : negative
- Urinalysis : Sp.gr 1.030, pH 5.0, **WBC 50-100**, RBC 0 , Sq.epi 1-2
- CBC :
 - Hb 14.3 g/dL, Hct 42.8 %
 - WBC 12,700 K/uL, Neutrophil 90.0 %, Lymphocyte 10.0 %
 - Platelets 197,000 K/uL
- Electrolyte
 - Na 134 mmol/L, K 3.9 mmol/L, Cl 99 mmol/L, HCO₃ 23 mmol/L
- BUN 17, Cr 0.75

Investigation

Table 30-2

Scoring systems

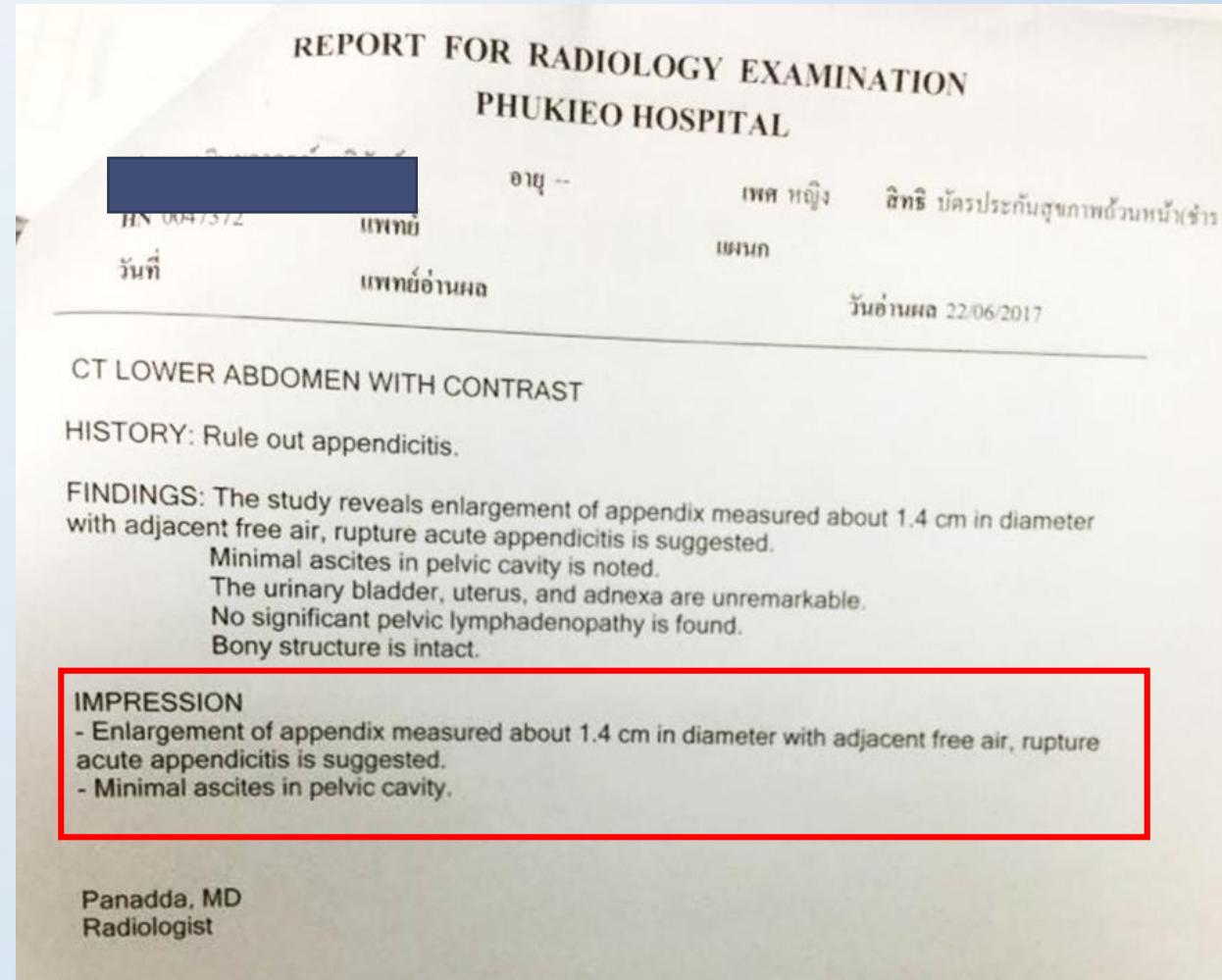
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Shift to the left of neutrophils	1		
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Score: <3: Low likelihood of appendicitis 4–6: Consider further imaging ≥7: High likelihood of appendicitis		Score: 0–4: Low probability. Outpatient follow-up. 5–8: Indeterminate group. Active observation or diagnostic laparoscopy. 9–12: High probability. Surgical exploration.	

Investigation

Imaging	Sensitivity %	Specificity %	Advantage	Disadvantage
1. Ultrasonography	55 – 96	85 – 98	<ul style="list-style-type: none">- Inexpensive- Rapidly- No contrast- Children, pregnancy	<ul style="list-style-type: none">- Operator dependent
2. CT scan	92 – 97	85 – 94	<ul style="list-style-type: none">- High sensitivity, specificity, accuracy- Lowered rate of negative appendectomy	<ul style="list-style-type: none">- Expensive- Expose to radiation- Limited in pregnancy- Allergy

Investigation (22/06/2017)

- CT lower abdomen with contrast :
 - Enlargement of appendix measured about 1.4 cm in diameter with adjacent free air, ruptured acute appendicitis is suggested.
 - minimal ascites in pelvic cavity.



Differential diagnosis

- 4 major factors
 - Anatomic location of the inflamed appendix
 - Stage of the process (uncomplicated or complicated)
 - Patient's age
 - Patient's gender

Differential diagnosis

- Pediatric patient
 - Acute mesenteric adenitis
- Elderly patient
 - Diverticulitis
 - Perforating carcinoma of the cecum or of a portion of the sigmoid
- Female patient
 - Pelvic inflammatory disease
 - Ruptured Graafian follicle
 - Twisted ovarian cyst or tumor
 - Endometriosis
 - Ruptured ectopic pregnancy

Differential diagnosis

- Pelvic inflammatory disease
 - Usually bilateral
 - Nausea and vomiting : 50%
 - Pain and tenderness are usually lower
 - Cervical motion tenderness
 - Purulent vaginal discharge : intracellular diplococci

Management

- Uncomplicated appendicitis
- Complicated appendicitis
- Nonoperative
- Operative
 - Open Appendectomy
 - Laparoscopic Appendectomy

Management (22/6/2017, 16.00)

One day	Continue
<p>Set OR for Appendectomy</p> <ul style="list-style-type: none">- NPO- 0.9%NaCl 1,000 ml iv rate 80 mL/hr- CXR, EKG 12 leads- Anti-HIV- G/M PRC 2 u- Cefoxitine 1 gm iv to OR	<ul style="list-style-type: none">- Off Cefoxitine, Doxycyclin- Ceftriaxone 2 gm iv od- Metronidazole 500 mg iv q 8 hr

Management (22/6/2017, 18.00)

One day	Continue
<p>Post-op order for Appendectomy with delayed primary suture</p> <ul style="list-style-type: none">- NPO- 5%DN/2 1,000 ml iv rate 60 ml/hr គ្រឿង Acetar 1,000 ml iv rate 60 ml/hr x 1 ថ្ងៃ- On O2 canular 2 LPM- Early ambulation- Morphine 3 mg iv prn for pain, q 4-6 hr- Record v/s q 1 hr x 2, then q 2 hr x 4 hr, then q 4 hr- Observe RR, Respiration if RR ≥ 30 pls notify- Paracetamol rectal suppo (325 mg/tab) 2 tab rectal suppo prn for fever, q 6 hr	<ul style="list-style-type: none">- NPO- Record v/sMedication<ul style="list-style-type: none">- Ceftriaxone 2 gm iv od- Metronidazole 500 mg iv q 8 hr

บันทึกการผ่าตัด

แบบ ๗.๑.๒ ๐.๐๕

Date of operation ๒๒ ส.ค. ๖๐ Time ๑๖.๐๐ Time ๑๖.๔๕
 Surgeon Dr. ๘๘๙๙ Started Ended
 First assistant ๘๙๗๙๕
 Second assistant Surgical nurse ๗๘๗๗๗๗
 Clinical diagnosis Acute Appendicitis + PID
 Post-operative diagnosis Ruptured Appendix
 Operation Appendix is Believed to be Clean
 Anesthesia GA + E.C.G. Anesthetist ๑๖๙๗๗๕ / ร.พ. ๗๘๙

DESCRIPTION OF OPERATION

Position : Supine

- Procedure:
- Skin was incised good 2cm
 - Muscle wall identify layer by layer
 - Appendix was identified → Ruptured Appendix is healthy
 - Appendix was clean in double ligature
 - prostate was ~~enlarged~~ clean many step
 - skin was closed layer by layer
 - Delayed suture

B.P. 200

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Postoperative care and Complications

- Uncomplicated appendectomy
 - Diet and discharged home
 - Unnecessary post-op antibiotics
- Complicated appendectomy
 - Broad-spectrum antibiotics for 4-7 days
 - Postoperative ileus
 - Increased risk for surgical site infection

Postoperative care and Complications

- Surgical site infection
- Stump appendicitis

Hospital Course (21-27/6/2017)



Hospital Course (21/6/2017)

One day	Continue
<ul style="list-style-type: none">- Admit Gyne- CBC,BUN,Cr,Electrolyte,Hemoculturex2- UPT, UA, UC- 0.9%NaCl 1,000 ml iv rate 100 ml/hr	<ul style="list-style-type: none">- Soft diet- Record vital signs <p>Medications</p> <ul style="list-style-type: none">- Cefoxitine 2 gm iv od, stat- Doxycyclin (100) 1 tab po bid pc, stat- Paracetamol (500) 1 tab po prn for fever, q 6 hr

Investigation (21/06/2017)

- Urine Pregnancy test : negative
- Urinalysis : Sp.gr 1.030, pH 5.0, **WBC 50-100**, RBC 0 , Sq.epi 1-2
- CBC :
 - Hb 14.3 g/dL, Hct 42.8 %
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Progress note (22/6/2017)

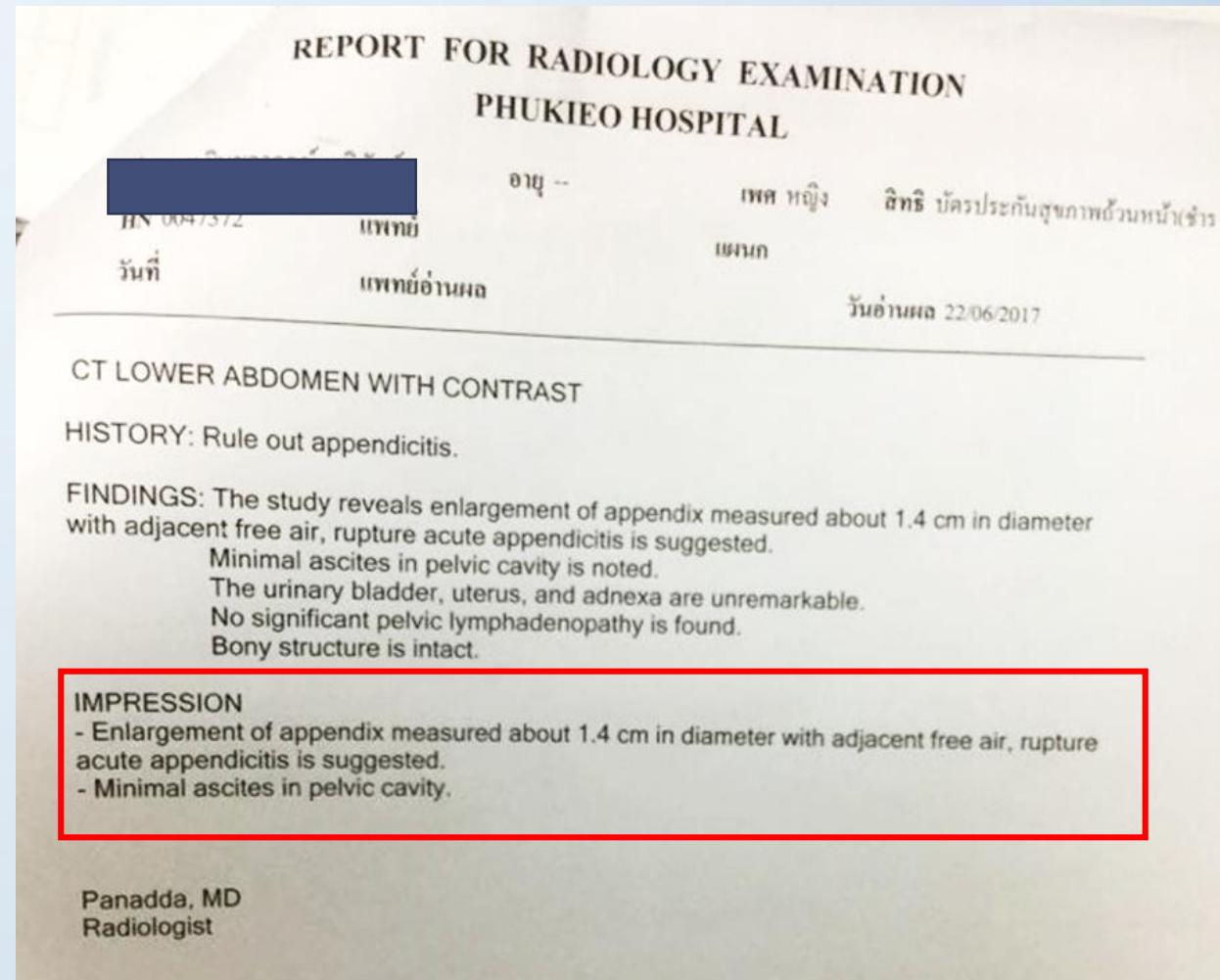
22/6/2017	Progress note
S	ผู้ป่วยปวดท้อง PS 7/10 ถ่ายเหลว 3 ครั้ง มีไข้
O	v/s BT 37.9 C PR 108 bpm RR 22 /min BP 110/70 mmHg Lungs : clear and equal Abdomen : normoactive bowel sound, tender at RLQ, guarding, no rebound tenderness PV : purulent discharge per os
A	Imp PID with appendicitis
P	- NPO - CBC, CT lower abdomen with contrast - 0.9% NaCl 1000 ml iv rate 120 ml/hr

Investigation (22/06/2017)

- CBC :
 - Hb 13.1 g/dL, Hct 38.1 %
 - WBC 9,300 K/uL, Neutrophil 84.0 %, Lymphocyte 11.0 %, Monocyte 5.0%
 - Platelets 166,000 K/uL

Investigation (22/06/2017)

- CT lower abdomen with contrast :
 - Enlargement of appendix measured about 1.4 cm in diameter with adjacent free air, ruptured acute appendicitis is suggested.
 - minimal ascites in pelvic cavity.



Management (22/6/2017, 16.00)

One day	Continue
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Date of operation ๒๒ ส.ค. ๖๐ Time ๑๖.๐๐ Time ๑๖.๔๕
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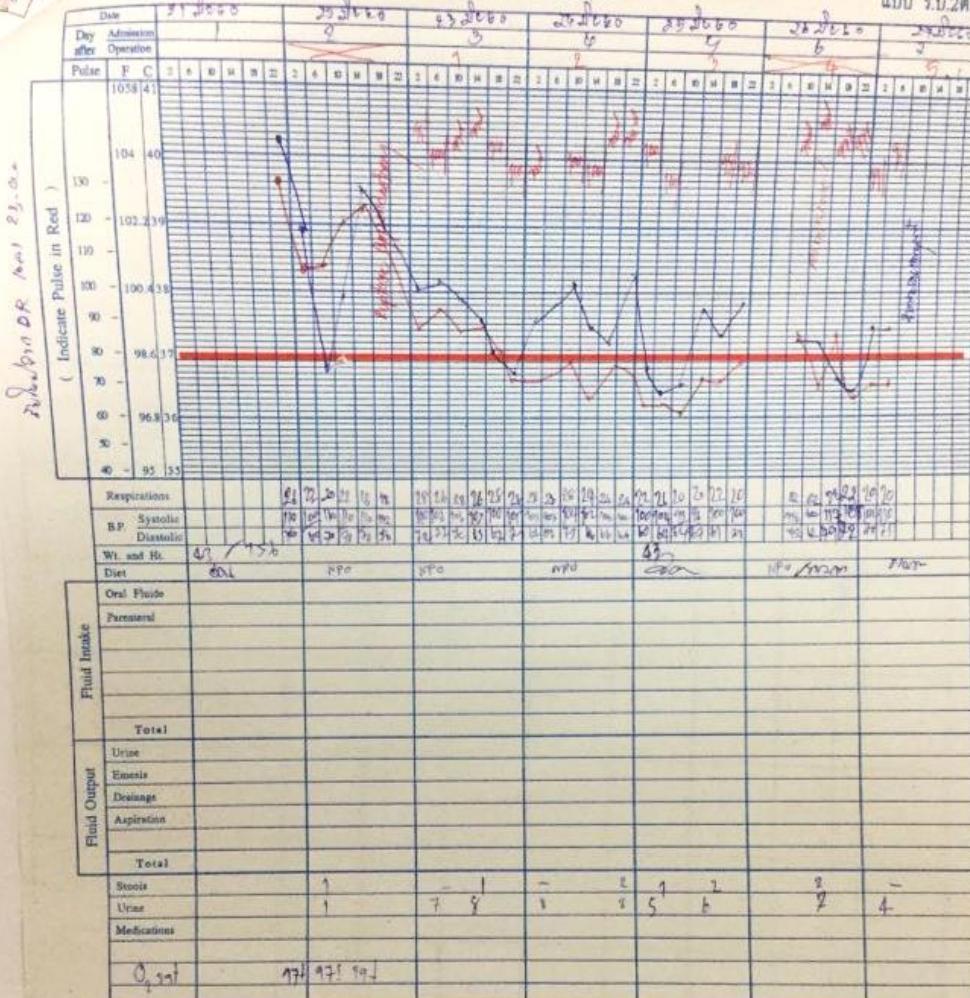
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B.P. 200

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Hospital Number

HN 30047372 AN 6000072

Wind

Attending Physician

T.P.R.

Progress note (23/6/2017)

23/6/2017	Progress note
S	ผู้ป่วยปวดท้องน้อยลง เจ็บแพล ไข้ลดลง รู้สึกเหนื่อย
O	v/s BT 37.9 C PR 108 bpm RR 24 /min BP 106/72 mmHg O2sat 100 % RA Lungs : clear and equal Abdomen : absent bowel sound, tender at RLQ, no guarding, no rebound tenderness
A	Ruptured appendicitis post-op appendectomy day 1
P	- NPO - Continue antibiotics - Control pain by Mo. 3 mg iv prn q 4-6 hr - 0.9% NaCl 1000 ml iv rate 120 ml/hr

Progress note (24/6/2017)

24/6/2017	Progress note
S	ผู้ป่วยเจ็บแผล ไม่มีไข้ ไม่เหนื่อย
O	v/s BT 37.6 C PR 76 bpm RR 26 /min BP 100/68 mmHg O2sat 100 % RA Lungs : clear and equal Abdomen : normoactive bowel sound, tender at RLQ, no guarding, no rebound tenderness
A	Ruptured appendicitis post-op appendectomy day 2
P	- จิบน้ำชา, liquid diet เที่ยง, Soft diet เย็น - Continue antibiotics - Control pain by Mo. 3 mg iv prn q 4-6 hr - 0.9% NaCl 1000 ml iv rate 100 ml/hr

Progress note (25/6/2017)

25/6/2017	Progress note
S	ผู้ป่วยเจ็บแผลน้อยลง ไม่มีไข้ ไม่เหนื่อย
O	v/s BT 36.6 C PR 64 bpm RR 20 /min BP 94/64 mmHg O2sat 100 % RA Lungs : clear and equal Abdomen : normoactive bowel sound, tender at RLQ, no guarding, no rebound tenderness
A	Ruptured appendicitis post-op appendectomy day 3
P	- Set OR for suture 26/6/2017 - NPO AMN - Continue antibiotics - Control pain by Mo. 3 mg iv prn q 4-6 hr - 0.9% DN/2 1000 ml iv rate 100 ml/hr

Progress note (26/6/2017)

26/6/2017	Progress note
S	ผู้ป่วยไม่มีไข้ ไม่เหนื่อย กินได้
O	v/s BT 37.2 C PR 84 bpm RR 22 /min BP 118/72 mmHg O2sat 100 % RA Lungs : clear and equal Abdomen : normoactive bowel sound, tender at RLQ, no guarding, no rebound tenderness
A	Ruptured appendicitis post-op appendectomy day 4 with S/P suture
P	- Off iv - Continue antibiotics - Plan D/C 27/6/2017

Discharge (27/6/2017)

- Clinical ดี กินได้ ไม่เหนื่อย ปวดแผลน้อยลง แพลดี ไม่ซึม ไม่มีหนอง
- Home Medication
 - Cefizime (100) 2 tabs po bid pc x 7 days
 - Metronidazole (200) 2 tabs po tid pc x 7 days
 - Paracetanol (500) 1 tab po prn for pain, fever q 6 hr
- Plan : นัด F/U 4 ก.ค. 60 OPD Sx

Take home message

- Approach to Acute RLQ pain in female
 - GI, GU, OB-GYNE
- Diagnosis of Acute appendicitis
 - Clinical Scoring Systems : The Alvarado score, The Appendicitis Inflammatory Response Score
- Treatment of Acute Pelvic inflammatory disease
 - Indication for hospitalization
 - Inpatient therapy
 - Outpatient therapy