

SURGERY VIGNETTE
Simulation (5-A)

Management of Acute Cholecystitis

THE FOLLOWING QUESTIONS CORRESPOND TO A CLINICAL CASE SCENARIO THAT THE HEALTH WORKER COULD EXPECT TO OBSERVE IN THE HOSPITAL. READ THE CASE SCENARIOS AND QUESTIONS EXACTLY AS THEY ARE WRITTEN (EVERYTHING THAT IS IN **BOLD FONT**). DO NOT READ THE OPTIONS OF ANSWERS. FOR CERTAIN QUESTIONS, MULTIPLE ANSWERS ARE POSSIBLE; IN THIS CASE, CIRCLE ALL ANSWERS GIVEN BY THE HEALTH WORKER. AFTER THE HEALTH WORKER HAS FINISHED ANSWERING THE QUESTION, ASK "ANYTHING ELSE?" IF ADDITIONAL ANSWERS ARE GIVEN AT THAT TIME, MAKE DUE RECORD OF THEM ON THE SURVEY FORM. BE CAREFUL TO FOLLOW THE SKIPS AS THEY ARE MARKED. MAKE SURE THE HEALTH WORKER CANNOT SEE THE FORM YOU ARE FILLING.

ATTENTION: IN THE "INFORMATION" COLUMN, THERE IS INFORMATION ON THE CURRENT STATE OF THE PATIENT. THIS INFORMATION HAS TO BE PROVIDED, IF AND ONLY IF THE CLINICIAN SAYS HE WOULD ASK THE QUESTION OR PERFORM THE ACTION LISTED. IF THE CLINICIAN DOES NOT MENTION HE WILL ASK THE QUESTION OR PERFORM THE ACTION, THEN THE RESULT OF THAT QUESTION OR ACTION SHOULD ABSOLUTELY NOT BE SHARED WITH THE HEALTH WORKER.

FOR EXAMPLE IN Q101, IF THE HEALTH WORKER SAYS S/HE WOULD ASK ABOUT THE MEDICAL HISTORY, THEN YOU HAVE TO ASK THEM "WHAT KIND OF HISTORY WOULD YOU ASK ABOUT?". IF THE HEALTH WORKER DOES NOT SAY HE WOULD ASK ABOUT THE MEDICAL HISTORY, THEN YOU MUST NOT ASK THEM WHAT KIND OF HISTORY THEY WOULD ASK ABOUT. STILL IN Q100, IF THE HEALTH WORKER SAYS S/HE WOULD ASK WHETHER SHE EXPERIENCED THIS PAIN BEFORE, THEN YOU HAVE TO TELL THEM THE PATIENT HAS HAD THIS PAIN THREE TIMES BEFORE. IF THE HEALTH WORKER DOES NOT SAY HE WOULD ASK WHETHER THE PATIENT EXPERIENCED THIS PAIN BEFORE, THEN YOU MUST NOT TELL THEM SHE HAS HAD THE PAIN THREE TIMES BEFORE. MAKE SURE THE HEALTH WORKER CANNOT READ IT ON THE FORM EITHER.

DO NOT READ OPTIONS ALOUD. FOR EACH OPTION, NOTE WHETHER THE HEALTH WORKER MENTIONED THIS ACTION OR NOT.

RECORD TIME OF BEGINNING OF THE SIMULATION (HH:MM) | ___ : ___ AM/PM

OBSERVERS READ SCENARIO: A 41 year old woman complains of abdominal pain in the right upper quadrant and has experience nausea and vomiting since eating dinner the night before. Her record shows she is the mother of four children, aged 2, 5, 8 and 12. She is obese, but otherwise presents as healthy.

Question	Yes	No	Information (only if health worker asks specific question)	GO TO	Verify Present/ Not Present
Q101: OBSERVER: What do you do to assess this woman? (MULTIPLE ANSWERS POSSIBLE)					
A. History taking	1	0	PROMPT: What kind of history would you ask about?		N/A
a. I would ask the woman to describe the pain and indicate with her hands.	1	0	Pain comes from the right upper quadrant and that it moves up to the right scapular region.		N/A
b. I would ask the woman what she ate for dinner last night.	1	0	Palm Butter Soup		N/A
c. I would ask her what else she ate	1	0	Vegetables		N/A
d. I would ask her if she has experienced this pain before.	1	0	Yes, three times before.		N/A
i. What happened those times?	1	0	Came to see the doctor each of those times and the pain went away after he gave her some medicines.		N/A
ii. I would ask what medicines she received.	1	0	Does not remember the name, she took the pills only once before the pain went away.		N/A
iii. I would ask if she was hospitalized.	1	0	No, she was not.		N/A
B. Physical examination	1	0	Please describe the things you would do.		N/A
a. Overall assessment	1	0	Responsive but in pain.		N/A
b. I would check the vital signs	1	0	Tachycardia, Fever (38.6 degrees)		N/A
c. Signs of Jaundice	1	0	Absent		N/A
d. I would palpate the abdomen	1	0	Marked tenderness in the upper right quadrant, with localized guarding.		N/A
e. Palpate the subcostal region	1	0	Sudden inspiration arrest on the right side but not on the left.		N/A
f. I would check for Murphy's sign	1	0	Murphy's sign noted, right side.		N/A
C. Lab tests	1	0	PROMPT: Please list the tests you would ask for		N/A
a. Full blood count (Complete blood count)	1	0	PROMPT: Please list the results you would ask for		N/A
i. Hemoglobin/HCT	1	0	Normal, 42% or 14 gr/dl		1 0
ii. White Blood Cell (WBC)	1	0	Elevated White Blood Cell count: 15,500/mm3		1 0

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iii. Red Blood Cell (RBC)	1	0	Normal		1	0
iv. Platelets	1	0	Normal		1	0
b. Hemoglobin/HCT (alone)	1	0	Normal, 42% or 14 gr/dl		1	0
c. Microscopy	1	0	PROMPT: Please list the tests you would ask for		N/A	
i. Malaria smear, M/S	1	0	Normal, Negative		1	0
ii. Malaria rapid diagnostic test (RDT)	1	0	Normal, Negative		1	0
d. Immunologic	1	0	PROMPT: Please list the tests you would ask for		N/A	
i. HIV rapid testing	1	0	Normal, Negative		1	0
ii. Hepatitis B (HBsAG) and Hepatitis C (HCV) tests	1	0	Normal, Negative		1	0
e. Chemistry panels (Automatic analyzer)	1	0	PROMPT: Please list the results you would ask for		N/A	
i. AST and ALT (liver enzymes)	1	0	Normal		1	0
ii. Amylase and Lipase (pancreatic enzymes)	1	0	Normal		1	0
iii. Chemistry (sodium, potassium, chloride, bicarbonate)	1	0	Normal		1	0
iv. BUN and creatinine (renal function)	1	0	Normal		1	0
v. Serum bilirubin	1	0	bilirubin and alkaline phosphatase slightly elevated		1	0
vi. Blood glucose, RBS (fasting or random)	1	0	Normal, 135 gr/dl		1	0
f. Blood gas analysis or Electrolyte Panel	1	0	Normal		1	0
g. Urinalysis, U/A	1	0	Normal, Negative		1	0
h. Pregnancy test,	1	0	PROMPT: Please list the tests you would ask for		N/A	
i. MTT	1	0	Normal, Negative	1	0	
ii. HCG	1	0	Normal, Negative	1	0	
i. Imaging	1	0	PROMPT: Please list the tests you would ask for		N/A	
i. RUQ Ultrasound	1	0	gallbladder wall thickening (>4 mm), pericholic fluid and sonographic Murphy sign		1	0
ii. Abdominal X-ray	1	0	PROMPT: What are you looking for?		N/A	
1. Obstruction	1	0	Not seen	1	0	
2. Gas outside of abdominal wall	1	0	Not seen	1	0	
j. Other Tests and imaging	1	0	PROMPT: Please list the tests you would ask for		N/A	
i. Other, specify: _____			Normal		1	0
_____			Normal		1	0
_____			Normal		1	0
D. I would call for assistance from another person	1	0	PROMPT: Who would you call?		N/A	
a. Specify title _____			Would you do anything else as well?		N/A	

Q102: OBSERVER: What is your overall assessment of the woman's conditions (Stable, Guarded, Unstable, or Critical) and what is her differential diagnosis?

A. Overall assessment(CHECK ALL ANSWERS GIVEN)						
a. Stable	1					N/A
b. Guarded	2					N/A
c. Unstable	3					N/A
d. Critical	4					N/A
e. Don't Know	5					N/A
B. Differential diagnosis(CHECK ALL ANSWERS GIVEN)						
a. Gastroenteritis	1	0				N/A
b. Biliary Colic	1	0				N/A
c. Gallstones	1	0				N/A
d. Hepatitis	1	0				N/A
e. Helminthic Infection	1	0				N/A
f. Acute cholecystitis	1	0				N/A
g. Appendicitis	1	0				N/A

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h. Peritonitis	1	0			N/A
i. Acute Abdomen (Can you be more specific? What is the differential diagnosis?)	1	0			N/A
j. Empyema	1	0			N/A
k. Perforation	1	0			N/A
l. Acalculous Cholecystitis	1	0			N/A
m. Pancreatitis	1	0			N/A
n. Diverticulitis	1	0			N/A
o. Trauma	1	0			N/A
p. Other, specify: _____ _____ _____					N/A

Q103: OBSERVER: What immediate steps would you take? (MULTIPLE ANSWERS POSSIBLE)

A. Call the attending physician	1	0			N/A
B. Call for consultation with surgeon	1	0			N/A
C. Admit	1	0			N/A
D. Refer to other facility	1	0			N/A
E. IV line	1	0			N/A
F. Antibiotics	1	0			N/A
G. Prescribe NPO (nothing by mouth)	1	0			N/A
H. Nasogastric tube	1	0			N/A
I. Put under observation	1	0			N/A
J. Schedule a cholecystectomy	1	0			N/A
K. Emergent cholecystectomy	1	0			N/A
L. Other, specify: _____ _____ _____					N/A

Q104: OBSERVER: What equipment or medicines would you have used in the management of this case that is either not present, or is not currently working in this facility?

A. Other, specify: _____ _____ _____		N/A
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OBSERVER: You mentioned some laboratory tests procedure as part of your examination [OBSERVER: CITE LAB TESTS MENTIONED BY WORKER IN Q101]. Can you verify that all of these tests are available at this facility?
[OBSERVER: VERIFY WITH HEALTH WORKER]

RECORD TIME OF END OF THE SIMULATION (HH:MM) _____ : ____AM/PM

GO BACK TO EACH ITEM IN THE SIMULATION THAT REQUIRES A PIECE OF EQUIPMENT OR A MEDICATION AND VERIFY THAT THE EQUIPMENT OR MEDICATION IS PRESENT.

PLEASE PROVIDE ANY FURTHER COMMENTS ON THE QUALITY OF CARE: