

SURGERY VIGNETTE
Interactive Hernia Simulation (A)

Management of Hernia

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. **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 Q101, IF THE HEALTH WORKER SAYS S/HE WOULD ASK WHEN THE PAIN STARTED, THEN YOU HAVE TO TELL THEM IT STARTED ABOUT A WEEK AGO. IF THE HEALTH WORKER DOES NOT SAY HE WOULD ASK WHEN THE PAIN STARTED, THEN YOU MUST NOT TELL THEM WHEN IT DID. 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

Scenario: A 50-year old woman complains of a painful mass in her groin. The patient is not currently in pain and is responsive to questions.

Question	Yes	No	Information	Go to	Verify Present/ Not Present
Q101: What do you do to assess this woman?					
A. History taking	1	0	What kind of history would you ask about?		N/A
a. When did the pain start?	1	0	About a week ago.		N/A
b. Does it hurt more when you are standing up or sitting down?	1	0	Patient responds: "More when I am standing up, not much when I am sitting down."		N/A
c. Does the lump go away when you lie down?	1	0	Yes.		N/A
d. What do you do for work?	1	0	I make bricks and carry them to a building site.		N/A
B. Physical examination	1	0	Please describe the things you would do.		N/A
a. I would examine the Vital Signs.	1	0	normal		N/A
b. I would examine the abdomen.	1	0	soft, non-tender, non-distended		N/A
c. I would examine the lump.	1	0	Bulging mass noted on the right side in the superior aspect of the scrotum and inguinal canal. When the man lies back on the exam table, the mass diminishes and with gentle palpation it goes away completely.		N/A
d. Ask him to cough and exam the inguinal canal at the same time.	1	0	mass expands with coughing.		N/A
e. Examine inguinal canal	1	0	protrusion felt on the pad of the finger .		N/A
C. Lab tests	1	0	Please list the tests you would ask for.		N/A
a. Full blood count (Complete blood count)	1	0			1 0
i. Hemoglobin/HCT	1	0	Normal, 46% or 15 gr/dl		1 0
ii. White Blood Cell (WBC)	1	0	Normal		1 0
iii. Red Blood Cell (RBC)	1	0	Normal		1 0
iv. Platelets	1	0	Normal		1 0
b. Hemoglobin/HCT (alone)	1	0	Normal, 46% or 15 gr/dl		1 0
c. Microscopy					
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					
i. HIV rapid testing	1	0	Normal, Negative		1 0

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ii. Hepatitis B (HBsAg) and Hepatitis C (HCV) tests	1	0	Normal, Negative		1	0
Question	Yes	No	Information	Go to	Verify Present/ Not Present	
e. Chemistry panels (Automatic analyzer)						
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	Normal		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, MTT	1	0	Normal, Negative		1	0
i. Imaging					1	0
i. RUQ Ultrasound	1	0	Normal		1	0
j. Other Tests and imaging	1	0	Normal		1	0
i. Other, specify: _____ _____	1	0			1	0
D. I would call for assistance from another person	1	0	Who?		N/A	
a. Specify title _____			[ALSO ASK THEM IF THEY WOULD DO ANYTHING ELSE]			
Q102: What is your overall assessment of the woman's conditions (Stable, Guarded, Unstable, Critical, etc.) and what is her differential diagnosis?						
A. Overall assessment(CHECK ALL ANSWERS GIVEN)						
a. Stable	1	0			N/A	
b. Guarded	1	0			N/A	
c. Unstable	1	0			N/A	
d. Critical	1	0			N/A	
B. Differential diagnosis(CHECK ALL ANSWERS GIVEN)						
a. Hernia (ASK THEM TO SPECIFY TYPE)	1	0			N/A	
i. Femoral hernia	1	0			N/A	
ii. Inguinal direct hernia	1	0			N/A	
iii. Inguinal indirect hernia	1	0			N/A	
iv. Strangulated hernia	1	0			N/A	
v. Incarcerated hernia	1	0			N/A	
vi. Unable to specify type of hernia	1	0			N/A	
b. Caused by consistent physical labor	1	0			N/A	
c. Caused by accident.	1	0			N/A	
d. Other, specify: _____ _____	1	0			N/A	
Q103: What immediate steps would you take?						
A. Call the attending surgeon (physician)	1	0		If Yes->Q112	N/A	
B. Give advice on helping the hernia to heal itself and discharge	1	0		If Yes->Q112	N/A	
C. Give advice on what symptoms to return for and discharge	1	0			N/A	
D. Monitor in the hospital	1	0			N/A	
E. Emergency surgery (herniorrhaphy)	1	0			N/A	
F. Schedule surgery (herniorrhaphy) for the next 24-48 hours	1	0			N/A	
G. Elective surgery (herniorrhaphy)	1	0			N/A	

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Q104: OBSERVER, CHECK Q103 ABOVE: DID THE HEALTH WORKER RECOMMEND HERNIORRHAPHY (OPTIONS E, F, OR G)?	1	0		If No → Q108	
Q105: What made you decide to perform a herniorrhaphy?					
A. Hernia	1	0			N/A
B. Other, specify: _____ _____	1	0			N/A
Q106: What made you decide to perform a herniorrhaphy of type [OBSERVER: REFER TO TYPE OF HERNIORRHAPHY IN Q103] emergent vs. scheduled vs. elective? [OBSERVER: SPECIFY BELOW]					
A. Specify: _____	1	0			N/A
Q107: What signs would have made you decide to observe the patient rather than perform the surgery? [OBSERVER: SPECIFY BELOW]					N/A
A. Specify: _____	1	0			N/A
Q108: OBSERVER, CHECK Q103: DID THE HEALTH WORKER RECOMMEND OBSERVATION TO MONITOR IN HOSPITAL (OPTION D)?	1	0		If No → Q112	
Q109: What made you decide to put the patient under observation? [OBSERVER: SPECIFY BELOW]					
A. Specify: _____	1	0			N/A
Q110: What signs would have made you decide to perform an emergency surgery?					
A. Strangulation or incarceration	1	0			N/A
B. Signs of bowel obstruction	1	0			N/A
C. Infectious symptoms	1	0			N/A
D. Other, Specify _____	1	0			N/A
Q111: What signs would have made you recommend discharging the patient? [OBSERVER: SPECIFY BELOW]					
A. Specify: _____	1	0			
Q112: 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? [OBSERVER: SPECIFY BELOW]					
A. Specify: _____	1	0			N/A
Q113QZ: You mentioned the following laboratory tests 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 right now? [OBSERVER: VERIFY WITH HEALTH WORKER]	1	0			1 0
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:					

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