

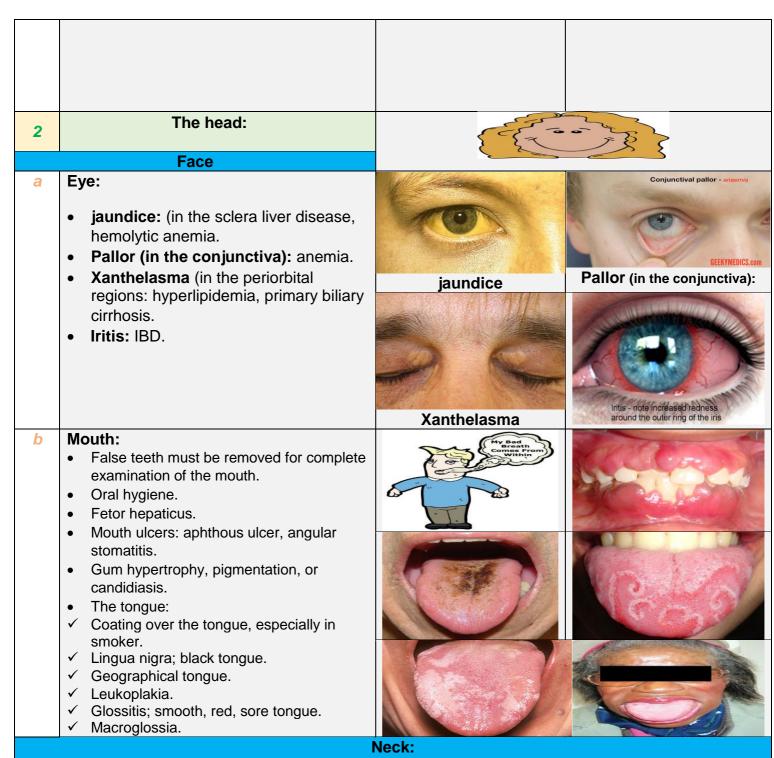
Abdominal Examination

Done By: Khalid Alshehri Osce Team Leaders: Abdulrahman Bahkley & Sarah Habis

	Abdomina	I Examination	
#	Subject steps	Pictures	Notes
А	Preparation: Pre-exam Checklist: WIPE	Be the one.	Very important.
2	Wash your hands. Introduce yourself to the patient, confirm patient's ID, explain the examination & take consent.		✓ Position: flat, or lying on one pillow.
3	Positioning of the patient and his/her Privacy.	1 2	✓ Exposure: ideally, from nipples to mid thighs, but expose up to the
4	Exposure. full exposure of the trunk.	3 4	groin and tell your examiner the ideal exposure.
В	Examination: <u>General appearance:</u> (ABC2DEVs)	ABC	
1	Appearance: young, middle aged, or old, and looks generally ill or well.		 ✓ Begin by observing the patient's general health from the end of the bed. ✓ Around the bed I can't see any medications, Or IV lineetc.
2	Body built: normal, thin, or obese	✓ Begin by observing the pati	ent's general health
3	Connections: such as nasal cannula (mention the medications), nasogastric tube, oxygen mask, canals or nebulizer, Holter monitor, I.V. line or cannula (mention the medications).	from the end of the bed. ✓ Observe the patient's generate of health, nutritional obvious signs e.g. jaundic ✓ General appearance:	status and any other
4	Color: jaundiced, pale, or cyanosed.	Jaundice.	
5	Distress: in pain, respiratory (using accessory muscles), or neurological (abnormal movements) distress.	Weight and wasting. Skin: - Pigmentation.	
6	Else: mental functions: consciousness, alertness, and orientation.	 Hereditary hemorrhagic to Porphyria cutaneatarde. Systemic sclerosis. 	elangiectasia.

Vital signs: Rate: counting over 30 seconds, normally 60-100. Rhythm: regular or irregular. Synchronization by comparing with the 1) Pulse rate other side (radio radial or radio femoral delay). 2) Blood pressure (BP) Character and volume: determined from the carotid. 3) Temperature Blood pressure (BP) Normal BP defined as a systolic reading less the 7 140, and diastolic reading less than 90. □ 4) Respiratory rate **Temperature:** Normal body temperature ranges from 36.6-37.20C. □ Respiratory rate: It is traditional to count it while taking the pulse. The normal rate at rest should not exceed 25 beat per minute (range **Example:** The patient looks well, lying comfortably on the bed, not distressed. The patient has a good body shape, not obviously using his accessory muscles, there is no heard wheezes and he is not connected to I.V lines, oxygen mask or chest tubes. **Head to toes** From peripheral to central or other wise. In the exam, if the examiner tells you to examine the abdomen, start locally from C the abdomen than move peripherally if you have time. IF your time is up make sure to finish with I would like to complete my examination with... 1 The hand: Dorsum: Muscle wasting. Symmetrical warm Pigmentations & erythema marginatum Skin lesion (including scars). Tendon xanthomata (hyperlipidemia). b Palm: Sings of nicotine staining. Palmar erythema: chronic liver disease, liver cirrhosis. Dupuytren's contracture: alcoholic liver disease. Pallor of palmar creases anemia becomes clearer with hyperextend fingers.

C	 Nail: Clubbing: chronic liver disease, IBD. Leukonychia: hypoalbuminemia, liver disease, or nephritic syndrome. Koilonychias: iron deficiency anemia. 		
d	Flapping tremor: ✓ (due to accumulation of toxins). (Asterixis)		Hepatic encephalopathy. Renal failure.
е	Pulse: Radial puls. Both sides.	https://www.youtube .com/watch?v=E- LKF pUWDA	Rate, Rhythm, Volume and the Character of the pulse.
f	Arm and axilla:		Petechiae
	✓ Bruising.✓ Petechiae.		Purpura —
	✓ Muscle wasting.	Bruising	Petechiae
	✓ Scratch marks.✓ Spider nevi.✓ Acanthosis nigricans.		recentae
	✓ Lymphadenopathy.	Muscle wasting.	Spider nevi.
		Acanthosis nigricans.	Lymphadenopathy.



Virchow's nodes: enlarged left supraclavicular lymph nodes.

2. Troisier's sign: presence of Virchow's nodes in gastric cancer patients.



Metastases to lymph node in left supraclavicular fossa also known as Virchow's node (or **signal node**) giving positive Troisier's sign, is one of the first visible metastatic manifestation



Chest:

Spider nevi: chronic liver disease. 2. Gynecomastia. 3 **Abdomen examination** A: Inspection a 1. Symmetry: ask the patient to take deep breaths through the mouth and watch. 3. **Abdominal distension** (remember the 5 F's): ascites causes full flanks. 4. Local swelling. Symmetry b 1. Prominent veins, pulsations, or peristalsis (by Cullen's sign Grey-Turner's sign squatting). 2. **Skin lesion:** rash, cautery marks, scratch marks (for pruritus), Sister Joseph sign (nodules near the umbilicus indicate umbilical metastasis).

3. Skin discoloration:

Grey Turner's sign; purple discoloration of the

flanks: severe acute pancreatitis.

Cullen's sign; blue discoloration of the paraumbilical area: severe acute pancreatitis. General pigmentation: Addison's disease.

C Striae:

- Silver pale: obesity, pregnancy.
- Purple: Cushing's syndrome, early after pregnancy.

Condition of umbilicus:

- Inverted: normal.
- Everted: abdominal distension, umbilical hernia.
- Semilunar (lunate): para umbilical hernia.

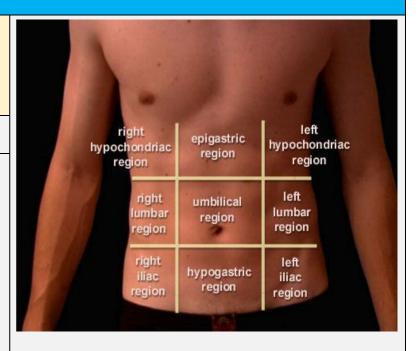


B: Palpation.

Ask the patient if he has any pain before starting.

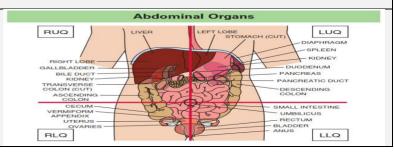
1. Superficial palpation: For superficial masses, guarding, rigidity, or tenderness.

 ✓ Resistance to palpation due to contraction of the abdominal muscles. ✓ May result from tenderness or anxiety. ✓ Protective reflex in sensitive patient. ✓ Voluntary or involuntary. ✓ Constant contraction of the abdominal muscles. ✓ Always associated with tenderness ✓ Indicates peritoneal irritation. ✓ Pathological cause. ✓ Involuntary. 		Guarding	Rigidity
	✓ ✓ ✓ ✓ ✓	palpation due to contraction of the abdominal muscles. May result from tenderness or anxiety. Protective reflex in sensitive patient. Voluntary or	the abdominal muscles. ✓ Always associated with tenderness ✓ Indicates peritoneal irritation. ✓ Pathological cause.



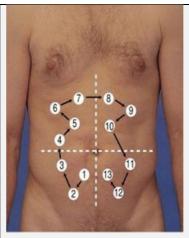
2. Deep palpation:

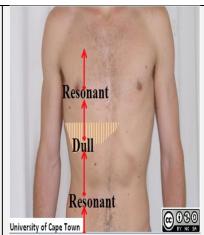
For deep masses, e.g. a tumor, organomegaly.



Techniques in abdominal * Liver: palpation: Start at the right iliac fossa, putting your hand LIVER PALPATION parallel to the right costal margin. ✓ Ask the patient if there is any With each expiration, the hand is moved 1-2 cm tenderness in the abdomen, closer to the right costal margin. and examine that area at the end. Mark the lower edge of the liver by a marker or ✓ Ask the patient to breath ask the patient to point it. gently through the mouth. Go to the right 2nd intercostal space, at the ✓ Watch the patient face when midclavicular line, and start to percuss, liver you palpate to detect dullness is usually at the fifth or sixth intercostal tenderness. 1 ✓ Don't remove your hand from Enlarged liver due Normal liver to hepatomegaly the patient's abdomen. Measure the liver span: "the liver is palpable... cm below the costal margin, with span of... cm". ✓ Start from right iliac fossa, moving clockwise or If there is hepatomegaly, you must comment on: anticlockwise, and end at Edge: tenderness, consistency, regularity, and the umbilical region. ✓ Use the palmar surface of Surface: smooth or nodular. your fingers, but for edges Span: normal liver span less than 13 cm, and it is or masses use the lateral more in men than women. surface of the fingers because it is the most *ADAM sensitive part. Gallbladder: 3). Palpation of the gallbladder ✓ All the hand's movement Hand should be perpendicular to the costal margin, should occur at the palpating from medial to lateral. metacarpophalangeal 2 Murphy's sign: sharp pain and cessation of inspiration (at the top of it) during palpation, which ✓ If you find any mass, describe indicates acute cholecystitis. it as a lump. Murphy's sign: acute cholecystitis courvoisier's sign pacreatic carcinoma Spleen **Kidney** * Spleen: Start from the right iliac fossa to the left Has no palpable Palpable hypochondrium, i.e. move obliquely. o Identify the upper border. upper notch of spleen. Has a palpable border. 3 notch. No notch. If you can't palpate it, use bimanual maneuver; role Moves Moves inferomedially the patient to the right side and do palpation by inferiorly. (during bimanual push at the 11th and 12th ribs area. Ballotable. inspiration). Resonant on Not ballotable. percussion The percussion Kidnev: No friction rub note is dull over it. Bimanual maneuver (ballottement). over it. Can get A friction rub may Not felt in normal people. above it. be heard over 4 Can't get above it. C: Percussion: Comment on the sound produced

- a
- Liver span (mentioned above).
- Spleen:
- ✓ Percuss over the lowest intercostal spaces in the left anterior axillary line.
- ✓ Percussion over Traube's Triangle (the area where we can percuss the enlarged spleen but still under the rib cage), which has the following boundaries:
- ✓ Upper border: the sixth rib.
- ✓ Lower border: the left costal margin.
- ✓ Lateral border: anterior axillary line.
- ✓ It overlaps the last two intercostal spaces.
- If the spleen is enlarged 3 times or more, it will cross the midline.





b

Ascites:

- Shifting dullness (for moderate ascites):
- Fingers directed downward (toward the groin).
- Start percussion from the midline, and move to the left flank (away from you).
- When you find the area of dullness, fix your hand, role the patient to your side, and wait for 30 seconds, then percuss again.
- If the area becomes resonant, the test is positive.
- For completion, continue your percussion towards the midline, until the percussion note becomes dull.
- Fluid thrill (for huge ascites):
- Ask the patient to place one hand firmly on the centre of his/her abdomen, with the fingers pointed downward.
- Flick one side of the abdominal wall. Feel the transmitted pulsations by the other hand, which you placed it on the other side of the abdominal wall.
- Dipping maneuver: Using two hands for palpation in case of huge abdominal distension.

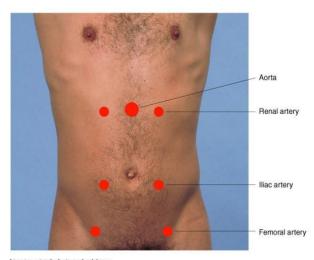
D: Auscultation:

Bowel sounds:

- ✓ Two/minute, best heard on the right lumbar and epigastric areas.
- Exaggerated sounds indicate intestinal obstruction, whereas absent sounds (for 3 minutes or more) indicate paralytic ileus.
- Friction rub: May be audible over the liver or spleen, and indicate abnormality of the peritoneum.

Arterial bruit:

- Over the liver: hepatocellular carcinoma (HCC).
- Over renal arteries on either sides of the midline 1 cm above the umbilicus: renal artery stenosis.
- Venous hum: Heard between the xiphisternum and the umbilicus: portal hypertension.



Listening points for bruits on the abdomen

Copyright 2001 by Lippinent Williams & William. Instructor's Resource CD-ROM to Accompany Bates' Guide To Physical Examination And History Tables
886 edition

To complete the examination: Tell the examiner that "I will conclude my Rectal Examination (PR) examination by doing PR & External https://www.youtube.com/watch?v=bK1GTLpL_F8 genitalia. 4 External Male Genitalia Examination https://www.youtube.com/watch?v=jMH sbgsJ-1g After the examination: ✓ Ensure that the patient is comfortable. ✓ Make explanations to the patient, answer his/her questions and discuss management plan. 5 ✓ If necessary, order diagnostic investigations. ✓ Dispose of sharps and waste material according to infection control standards. ✓ Wash hands. ✓ Document the procedure.