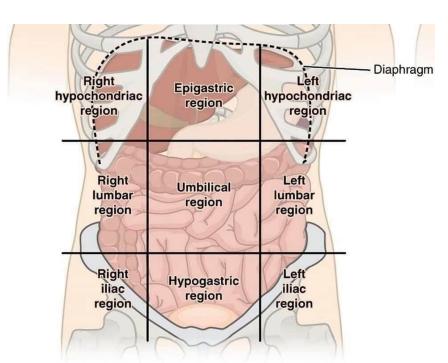
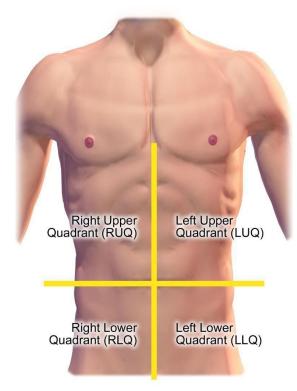
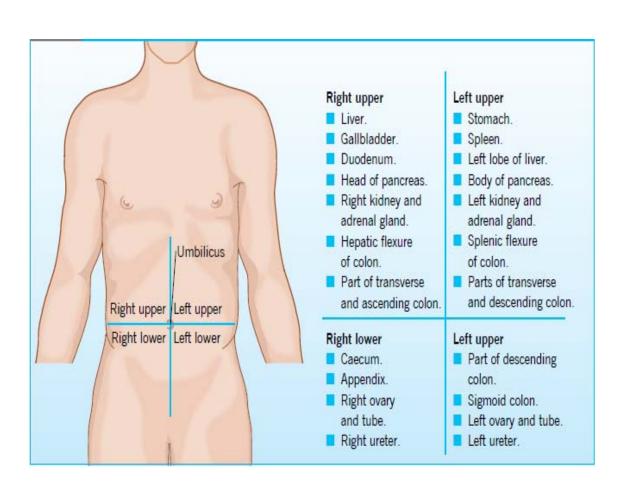
## **Abdominal assessment**

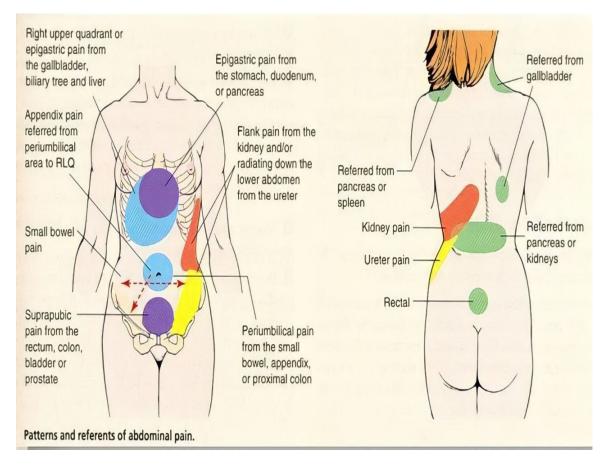




(a) Abdominopelvic regions

## Abdominopelvic Quadrants





## Abdominal pain may be formally described as visceral parietal or referred

Items	visceral pain	Parietal pain	Referred pain
Occurrence	Hollow abdominal	The parietal peritoneum	Distant sites that are
	organs such as	becomes inflamed as in	innervated at
	intestines	appendicitis or peritonitis	approximately the same
	becomes distended or		levels as the disrupted
	forcefully		abdominal organ
	-The capsule of solid		
	organs such as liver or		
	spleen is stretched		
Location	Poorly defined or	Tends to localized more	Highly localized at the
	localized and	to the source	distant site
	intermittently timed		
Character	Dull. aching, burning,	More sever and steady	Travels or refers from the
	cramping or colicky	pain	Primary site

Current	Are you experiencing abdominal	Abdominal pain occurs when specific
symptoms	pain	digestive organs or structure are affected
		by chemical or mechanical factors as
		inflammation, infection distention
		obstruction or trauma
	How would you describe the pain?	The quality or character of the pain may
	How bad is the pain severity on a	suggest its' origin. The client's perception
	scale of 1 to 10, with 10 being the	of pain provides data on his or her
	worst	response to and tolerance of pain.
		Sensitivity to pain varies greatly among
		individuals

How does the pain begin?	The onset of pain is a diagnostic clue to its' origin .E.g. acute pancreatitis produces sudden onset of pain whereas the pain of pancreatic cancer may be gradual or recurrent
Where is the pain located? Does it move or has it changed from the original location	Location helps determine the pain source and whether it is primary or secondary
When does the pain occur (timing and relation to particular events such as eating, exercise, bedtime)	timing and relationship of particular events may be a clue to origin of pain (e.g. The pain of a duodenal ulcer may awaken the client at night)
What are the precipitating factors (seems to bring on the pain) exacerbating factors (make it worse) or alleviating factors (make it better)	Various factors can precipitate or exacerbate abdominal pain such as alcohol ingestion with pancreatitis or supine position with gastro esophageal reflux disease
Is the pain associated with any of the following symptoms nausea, vomiting ,diarrhea ,constipation, gas fever, weight loss, fatigue or yellowing of the eyes or skin	Associate signs and symptoms may provide diagnostic evidence to support or rule out a particular origin of pain. In epigastric pain accompanied by tarry stools suggests a gastric or duodenal ulcer
Do you experiencing indigestion?  Describe. Does anything in particular seem to cause or aggravated this condition	Indigestion(pyrosis) often described as heartburn may be an indication of acute or chronic gastric disorders including hyperacidity, GERD, peptic ulcer disease and stomach cancer
Do you experiencing vomiting nausea? Describe.  Is It triggered by any particular activities, events or other factors?	Nausea may reflect gastric dysfunction and may be associated with many digestive disorders and disease of the accessory organs such as liver and pancreas well as renal failure and drug intolerance
Have you been vomiting? Describe the vomitus. Is it associated with any particular trigger factors?	Vomiting is associated with impaired gastric mobility or reflex mechanisms -Description of vomitus (emesis ) is a clue to the source .E.g. bright hematemesis is seen with bleeding esophageal varicose and ulcers of the stomach or duodenum
Have you noticed a change in your appetite	Loss of appetite (anorexia) is a general complain often associated with digestive disorders ,chronic syndromes, cancers and psychological disorders

Bowel	Do you have constipation?	Constipations is usually defined as a
Elimination	Describe. Do you have any	decrease in the frequency of bowel
	accompanied symptoms?	movement s or the passage of hard and
		possibly painful stools.
		Accompanies symptoms as bleeding with
		malignancy or pencil shaped stools with
		intestinal obstruction
Bowel	Have you experienced diarrhea?	Diarrhea is defined as frequency of
Elimination	Describe .DO you have any	bowel movements producing unformed
	accompanied symptoms?	or liquid stools.
		Bloody and mucous are associated with
		inflammatory bowel disease (e.g.
		ulcerative colitis) clay- color ,fatty stools
		may be from malabsorption syndrome
	Have you experienced any	These symptoms should be evaluated to
	yellowing of your skin or white of	rule out possible liver disease
	your eyes ,itchy skin ,dark urine	
	(yellow brown or tea colored) or	
Dogt	clay colored	Descenting the client with a first of the
Past	Have you ever had any of the	Presenting the client with a list of the
History	following disorders, ulcers,	more common disorders may help the
	gastroesophageal reflux, inflammatory or obstructive bowel	client identify any that he or she had
	disease, pancreatitis gallbladder or	
	liver disease	
	Have you had any urinary tract	urinary tract infection may become
	disease as infection, kidney disease	recurrent and chronic
	or nephritis or kidney stones	
	Have you ever had viral hepatitis	Various populations are at increased risk
		for exposure to hepatitis viruses.
		Any type of viral hepatitis may cause
		liver damage
	Have you ever had abdominal	Prior abdominal surgery or trauma may
	surgery or other trauma to the	cause abdominal adhesions, thereby
	abdomen	predisposing the client to future
- 10 -		complications or disorders
Life Style	Do you drink? How much? How	Alcohol ingestion can affect the
and Health	often	gastrointestinal tract as the stomach,
Practices		pancreas and liver.
		Alcohol —related disorders include
	What type of foods and have not -1	gastritis, esophageal varicose
	What type of foods and how much	A base line dietary and fluid survey helps
	food do you typically consume	determine nutritional and fluid adequacy
	each day	and risk factor for altered nutrition,
	How much and how often do you	constipation and diarrhea  Regular evergise promotes peristalsis and
	How much and how often do you exercise	Regular exercise promotes peristalsis and the regular bowel movements
	CACICISC	the regular bower movements

If you have a gastrointestinal disorder how often does it affect your life style and how you feel about yourself?	Certain GIT disorders and their effects may produce psychological effects that affect the client's perception Of self-body image, social interaction and intimacy and life goals and exception
Abdominal skin may be pale than the general skin tone because the skin so seldom exposed to the natural elements	Purple discoloration of the flank indicates bleeding within the abdominal wall The yellow hue of jaundice may be more apparent on the abdomen
Scattered fine Vein may be visible	Dilated veins may be seen with cirrhosis of the liver, obstruction of the inferior vena cava. portal hypertension or as cites Dilated central arterioles with central star may be seen with liver disease or portal hypertension
Old ,silvery ,white striae or stretch marks from past pregnancies or weight gain are normal ascites	Dark blush —pink Striae are associated with Cushing's syndrome Striae may also be caused by ascites
Pale smooth minimally raised old scars may be seen	Non healing scars redness, inflammation.  Deep irregular scars may result from burn
Abdomen is free from lesions or rashes -Flat or raised moles may be present	Changes moles including size. color and border symmetry Bleeding moles or petechiae (reddish or purple spots)
Umbilicus skin tones are similar to surrounding abdominal skin tone or even pinkish	Bluish or purple discoloration around the umbilicus (Cullen's' sign) indicate intra-abdominal bleeding
Midline	A deviated umbilicus may cause pressure from a mass. Enlarged organs, hernia, fluid or scar tissue
Recessed inverted or protruding not more than 0.5 cm, round or conical	An everted umbilicus is seen with abdominal distension An enlarged everted umbilical suggests umbilical hernia
Abdomen is flat ,rounded or scaphoid (usually seen in thin adults) Abdomen should be eventually rounded	A generalized protuberant or distended abdomen may be due to air (gas) or fluid accumulation.  Distension below the umbilicus may be due to a full bladder, uterine enlargement or an ovarian tumor or cyst  Distension upper the umbilicus may be seen with mass of the pancreas or gastric
	your life style and how you feel about yourself?  Abdominal skin may be pale than the general skin tone because the skin so seldom exposed to the natural elements  Scattered fine Vein may be visible  Old ,silvery ,white striae or stretch marks from past pregnancies or weight gain are normal ascites  Pale smooth minimally raised old scars may be seen  Abdomen is free from lesions or rashes -Flat or raised moles may be present  Umbilicus skin tones are similar to surrounding abdominal skin tone or even pinkish  Midline  Recessed inverted or protruding not more than 0.5 cm, round or conical  Abdomen is flat ,rounded or scaphoid (usually seen in thin adults) Abdomen should be eventually

## **Abdominal Distension (7 F's):**

- 1. Full UB.
- 2. Fluid.
- 3. Fibroid.
- 4. Faces.
- 5. Foetus.
- 6. Flatus.
- 7. Fat.

	Abdomen is symmetric does not bulge when client raises head	A scaphoid (sunken abdomen) may be seen with severe weight loss or cachexia related to starvation or terminal illness
	Abdomen is symmetric does not bulge when client raises head	Asymmetry may be seen with organ enlargement, large masses, hernia or bowel obstruction A hernia (protrusion of the bowel through the abdominal wall) is seen as bulging in the abdominal wall
Observe aortic pulsation	A slight pulsation of the abdominal aorta visible in the epigastrium extends full length thin people	Vigorous wide exaggerated pulsation may be seen with abdominal aortic aneurysm
Watch for peristaltic waves	peristaltic waves are not seen except in thin people as slight ripples on the abdominal	peristaltic waves arc increased and progress in a ripple —like fashion from LUQ to RLQ with intestinal obstruction especially small intestine
	<b>Auscultation for Bowel Sounds</b>	
Note the intensity pitch and frequency of sounds	A serious of intermittent ,soft clicks and gurgle are heard at a rate of 5-30 per minute Borborygmi hyperactive sounds may be normally heard as loud prolonged gurgles characteristics of stomach growling	Hypoactive bowel sounds indicate diminished bowel motility caused by abdominal surgery or late bowel obstruction Hyperactive bowel sounds indicate increased bowel motility caused by diarrhea, gastroenteritis or early bowel obstruction Decreased or absent bowel sounds signify the absence of bowel motility associated with peritonitis or paralytic illus requiring immediate referral

	Auscultation for Vascular Sounds and Fraction Rubs	
Listen for Bruit use the bell Listen over the abdominal aorta, renal, iliac and femoral arteries	Bruit (low pitched ,murmur like sound) are not normally heard over the abdominal aorta renal, iliac and femoral arteries	Bruit occurs when blood flow in an artery is turbulent or obstructed.  This indicate aneurysm or arterial stenosis
Listen for a venous hum in the epigastric and umbilical areas. Use the bell	Venous hum is not normally heard over the epigastria and umbilical areas	Venous hum are rare However an accentuated Venous hum heard in the epigastria and umbilical areas suggested increased collateral circulation between the portal and systemic venous system as in cirrhosis of the liver
Listen for a friction rub over the liver and spleen on the RT and LT lower rib cage with the diaphragm	No friction rub over the liver or spleen	friction rub are rare -If heard ,they have a high pitch, rough, grating sound produced when the large surface area over the liver or spleen runs the peritoneum
Per cuss for tone Lightly and systematically over the percuss all quadrant	Generalized tympany predominates over abdomen Dullness over the liver and spleen and over a non- evacuated distended colon	Accentuated tympanic or hyper resonance is heard over a gaseous distended abdomen An enlarged area of dullness is heard over distended bladder, large masses or ascites
Percuss the liver Percuss the span or height of the liver by the determining its' lower and upper border	Lower border of the liver dullness is located at the coastal margin to 1 to 2 cm below	The Lower border of the liver dullness May be difficult to estimate when obscured by intestinal gas The upper border of the liver dullness May be difficult to estimate when obscured by Pleural fluid or lung consolidation Hepatomegaly a liver span that exceeds normal limits (enlarged) is characteristics of liver tumors Cirrhosis, abscess and vascular enlargement Atrophy of the liver is indicated by a decreased span

Per cuss the spleen begin posterior to left mid maxillary line (MAL) and per cuss	On deep inspiration, Lower border of the liver dullness may descent from 1-4 cm below the costal margin. The upper border of the liver dullness is located between the left 5th and 7th ICS.  The normal liver span at the MCL is 6 to 12 cm ( greater in men and taller clients, less in shorter client he normal liver span at the MSL is 4 to 8 cm.  The spleen is an oval area of dullness about 7 cm. Wide near the left tenth rib and slightly posterior to the MAL.	Results of splenic percussion may be obscured by air in the stomach or bowel Splenomegaly is characterized by an area of dullness greater than 7 cm wide The enlargement may result from traumatic injury and portal hypertension
downward		traumatic injury and portal hypertension Other sources of dullness e.g. full stomach or faces in the colon must be ruled out before confirming splenomegaly
	Perform Blunt Percussion on the liver and kidneys	
To assess for tenderness in difficult to palpate structure	No tenderness or pain is reported by the client The examiner senses only a dull thud	Tenderness over the liver may be associated with inflammation or infection e.g. hepatitis or cholecystitis Tenderness or sharp pain over costovertebral suggests kidney infection (pyelonephritis) renal calculi or hydronephrosis
Palpate the umbilicus	Umbilicus and surrounding area are free of swelling, bulges, masses	A soft center of the umbilicus can be potential for herniation
Palpate the Aorta Use thumb and first finger and palpate deeply in the epigastria slightly to the lift of midline	The normal aorta is approximately 2.5 to 3.0 cm wide with a moderate strong and regular pulse Possibly mild tenderness may be elicited	A wide bounding pulse may be felt with an abdominal aortic aneurysm

Palpate the liver	The liver is usually not	A hard firm liver may indicate cancer
Bimanually or by	palpable ,although it may	No duality may occur with tumors,
hooking	be felt in some thin clients	cancer and late liver cirrhosis
_	-The lower edge should be	Tenderness may be from vascular
	firm and smooth Mild	engorgement e.g. CHF, acute hepatitis
	tenderness may be normal	Liver more than 1 to 3 cm below the
		costal margin is considered enlarged
Palpate the spleen	The spleen is seldom	Palpable spleen suggests enlargement tip
	palpable at the left costal	to three times the normal size which may
	margin ,rarely the tip is	result from trauma, chronic blood
	palpable in the presence of	disorders
	a low flat diaphragm e.g.	
Dalmata tha kidnay	COPD The kidney are normally	An onlarged hidney may be due to a gyet
Palpate the kidney	The kidney are normally	An enlarged kidney may be due to a cyst,
Palpate the urinary	not palpable  Normally no palpable	tumor or hydronephrosis  A distended bladder is palpated as a
bladder	Tromany no parpaule	smooth, round and somewhat firm mass,
biddei		extending as far as the umbilicus.
		It may be further validated by dull
		percussion tone
	<b>Special Abdominal Tests</b>	
	1-Ascites	
Test for shifting	The border between	The fluid assumes dependent position
Dullness For the	tympany and dullness	and produces a dull percussion tone
client has ascites.	remain relatively constant	around the flank in supine position and
First in supine	throughout position change	tympany around the umbilical .On side
position.		position ,tympany is on the top
Then turn client		
onto his side	2 Ammon dicitio	
Rebound	2-Appendicitis No rebound Tenderness	The client has rebound tenderness when
Tenderness	No rebound Tenderness	perceiving sharp stabbing pain as the
Assess abdominal		examiner release pressure from the
pain and		abdomen (Blumberg's sign).
tenderness		dodomen (Bramoerg's sign).
Palpate the area of		
pain and suddenly		
release pressure		
Rovsing's Sign	No pain	Pain in the RLQ during pressure in the
Palpate deeply in		LLQ is a positive Rovsing's sign
LLQ		
Psoas Sign	No abdominal pain	Pain in the RLQ indicates irritation of the
		iliopsoas muscle due to inflamed
		appendix
Obturator Sign	No abdominal pain	Pain in the RLQ associated with irritation
		of the Obturator muscle due to inflamed
		appendix

	3- Cholecystitis	
Murphy's sign To	No increase in pain	Accentuated sharp pain that causes the
assess RUQ pain		client to hold his breath (inspiratory
or tenderness Press		arrest) is associated with acute
finger tips under		cholecystitis is a positive Murphy's Sign
the liver border at		
the right costal		
margin While the		
client inhaling		
deeply		