Week 1 - abdominal assessment

Surface landmark

- large oval cavity extending from the diaphragm down to the brim of the pelvis
- Bordered on the back by the vertebral column and paravertedbral muscles and at the sides and front by the lower rib cage and abdominal muscles
- Four layers of flat muscle form the ventral abdominal wall
- The linea alba joins the ventral abdominal wall at the midline
- Rectus abdomens forms a strip extending the length of the midline and its edge is often palpable

Internal anatomy

- solid viscera= they maintain a characteristic shape (liver, pancreas, spleen, adrenal glands, kidneys, ovaries and uterus)
- Liver is located in RUQ and extends to the left midclavicular line
- Liver and kidneys are palpable
- Hollow viscera (stomach, gallbladder, small intensine, colon and bladder)

4 quadrants

| + quadrants | |
|--|---|
| Right upper quadrant | Left upper quadrant |
| - liver | - stomach |
| - Gallbladder | - Spleen |
| - Duodenum | - Left lobe of liver |
| - Head of pancreas | - Body of pancreas |
| - Right kidney and adrenal | - Left kidney and adrenal - Splenic flexure of |
| - Hepatic flexure colon | colon |
| - Part of ascending and transverse colon | Part of traverse colon and descending |
| | colon |
| Right lower quadrant | Left lower quadrant |
| - caecum | - part of descending colon |
| - Appendix | - Sigmoid colon |
| - Right over and tube | - Left ovary and tube |
| - Right uterus | - Left ureter |
| - Right spermatic cord | - Left ureter |
| | - Left spematic cord |
| Midline | |
| - aorta | |
| - Uterus (of enlarged) | |
| - Bladder (if distended) | |
| | |

development and social consideration

- infant and children
- Umbilical cord shoes 2 arteries and 1 vein
- Liver takes up a big space
- Bladder located higher than normal lies between the symphysis and the umbilicus Less macular so organs are easily palpated
- Pregnant woman
- Experience constpation
- Increased venous pressure in the lower pelvis can lead to hemroids
- Intestine is displaced upwards and posterior (bowel sounds are diminished)
- Appendix is displaced upwards to the right
- Stile and linea nigra
- late adulthood
- Salivation decreases- causing dry mouth and decreased sense of smell

- Oesophageal emptying is delayed can result in fullness, dysphagia and reflux
- Acid secretion decreases with ageing causing anaemia
- Increased gallstones
- Liver size decreases with age
- Complain of constipation due to decreased activity, dehydration, low fibre diet,

Subjective data

- presenting concerns
- Do you feel that you have any abdominal problems
- It is important to certain the persons perception of there presenting health concern How does this impact you in the quality of life
- Food intolerance
- Are there any foods you can not eat? What happens when you eat the? (alergic reaction/heartburn/belching/abdominal pain/bloating/indigestion/diarrhiea
- Have try sought ant assistance from health proessional for these symptoms
- Do you use antacids or any other meditational or therapy for these symptoms? Which substances and how often?
- Abdominal pain
- Characteristic
- How would you describe the pain you are experiencing? Cramping (colic type), burning in the atomic, dull, tubing, aching?
- Onset
- Duration variation- how did it start? How ling have you had it
- Location
- Where is the payn? Please young? Is to in one spot or does it move around
- Duration
- Is the pain consistent or does it come and go? Does it occur before or after meals? Does it peak? When?
- Severity
- How intense is the pain? Rate from 1-10
- Pattern:
- What makes the pain worse? (food/ movement/ stress/medication? What have you tried to relieve pain?
- Associated factors
- Is the pain associated with any other symptoms
- Nausea and vomiting
- Do you have any nausea/ vomiting? How ofter? How much comes out? What colour? Odour?
- Is it bloodstained
- Is it associated with any other symptom
- What food did you eat in the last 14 houra? Where? Any family with same symptoms
- Bowel function
- How often do you have a bowel movement
- What is the colour? Consistency
- Any diarrhoea or contipation
- Any recent changes in bowel habits
- Past history
- Have you ever had hystory of GIT problems?
- Do you have any history of UTI, kidney problems, ovarian or ,enstral problems
- Have you ever had surgery on you abdomen
- Health and lifestyle management

- What prescribed medication are you on
- Are you taking any over the counter media
- Alcohol and drug use
- Smoking

Objective data

- preparation
- Person should have emptied their bowels and bladder
- Keep room warm
- Position patient on supine position
- Hamr stathescope head
- Inquire about painful areas
- Inspection Contour -
- symmetry
- Should be symmetrically bilateral
- Ask the patient to take a deep breath to further highlight any changes
- Ask them to put their chin on their chest and raise their head- should still remain semetrical
- Umbilicus
- Midline and inverted
- No signs of discolouration, inflammation or hernia
- Skin
- Smooth surface
- Homogenous colour
- Striae
- Moles are normal
- Surgical scars must document and highlight location and size
- auscultation
- Done before palpation because they cane increase paristasis which would five falls results
- Starts by RLQ
- Bowel sounds
- Listen until you dins them
- 3 types
- Normal
- Hyperactive
- Loud, high pitched, rushing, tinklinf sounds that signal increased motility hypoactive/absent
- General tympani
- Dullness occurs over a distended bladder, faecal loading, adipose tide, fluid or mass Hyper resonance- in geseous distension
- Palpation = to judge the size, location and consistence of abdominal mass or tenderness
- Bend the person's knee
- Hold your palpating hand low and parallel to the abdomen/ use finger pads not the tips
- Instruct the person to breath slowly
- Keep own voice low and soothing
- Emotive imagery (imagine you are in the beach)
- If grading tell them to wiggle their toes

What to do if mass is identifies

- document:
- location

- Size
- Shape
- Consistency
- Surface
- Mobility
- Pulsatility
- Tenderness

Week 2 - respiratory assessment

Upper airways

Position and surprise landmarks

- the thoracic cage is a bony structure with a conical shape which is narrow on the top
- It is defined by the sternum, 12 pairs of ribs and 12 thoracic vertebrae
- Its floor is the diaphragm musculoskeletal septum that separates the thoracic cavity from the abdomen
- 1st 7 ribs attach to the sternum via their costal cartilage
- Ribs 8,9&10 attach to the costal cavity above
- Rib 11 & 12 flote
- costrochondral junctions are the points at which the ribs join their cartilages (not palpable)

 Anterior thoracic landmarks
- suprasternal notch: u shaped depression just above the sternum on between the clavicles Sternem: the breastbone. Has 3 parts:
- Manubrium
- Body
- Diploid process
- Manubfiosternal angle:
- Composed of the manubrium and the body of the sternum
- It marks the site of tracheal bifurcation into the right and left main bronchi
- It helps localise a respiratory finding horizontally
- To find it:
- Palpate the second rib snd slide down to the second intercostal space, continue counting down the ribs in the middle of the hemithorax
- Costal angle
- The right and left costal margins form an angle where they meet at the diploid process
- When rib cage is chronically overinflated:
- Angle is increased over 90 degrees

<u>Posterior thoracic landmarks</u> (counting ribs and intercostal saves is harder due to the muscle and soft tissue in the back)

- Vertebra prominens
- Flex your head and the most prominent bony spur protruding at the base of the next
- Spinous processes
- Knobs of the vertebrae
- Inferior border of the scapula
- Located symmetrically in each hemithorax
- The lower tip is usually at the seventh or eighth rib
- Twelfth rib
- Palpate midway between the spine and the person's side to identify its free tips

Reference lines

- midclaviscular line

- Bisects the cere of each clavicle at a point halfway between the palpated sternoclvicular and acromioclaviscular joints
- Vertebral / mid spinal line and the scapular line
- Extends though the inferior angle of the scapular when the arms are at the side of the body
- anterior axillary:
- From the anterior axillary fold where the pectorals major muscle inserts
- Posterior axillary
- From the posterior axillary fold where the latissium doors muscle inserts
- Midaxillary
- Apex of the axilla and lies between and parallel to the other 2

The thoracic cavity

- Mediastinum
- Oesophagus, trachea, Heath and great vessels
- Left and tight pleural cavity
- Contains the lungs

Lobes of the lungs

- right lung is shorter than left lung because of the underlying liver
- The left lung is narrower than the right because of the heart
- Right lung has 3 lobes and left lung has 2

Pleurae

- a think slippery pleurae form an envelope between the lungs and the chest wall
- Visceral pleura:
- It lines outside of the lungs
- Parietal pleura
- Inside the chest wall and diaphragm

Trachea and bronchial tree

- the trachea lies anterior to the oesophagus and is 10-11cm long
- The trachea and bronchi transport gases between the environment and the lung parenchyma.
 Goblet cells
- Recreate mucus
- Acinus:
- Functional respiratory unit that consist of the bronchioles, alveolar ducts, alveolar sacs and the alveoli

The mechanics of ventilation and respiration

- respiration:
- The exchange of gasses across the alveoli
- Can be decided into:
- Oxygenation= the supply of oxygen to the body for energy production
- Removing carbon dioxide= waste product of respiration
- Maintaining homeostasis of arterial blood
- Maintain heat exchange
- Ventilation:
- 2 part process of moving air into and out of the lungs

Control of breathing

 we have involuntary control of ventilation is mediated by respiratory centre in the brainstem (ponds and medulla)- they work bt detecting the change in co2 ands oxygen levels in the bloodstream

| - The normal stimulus for breathing is hypercardia or hypercapnia | | |
|---|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |