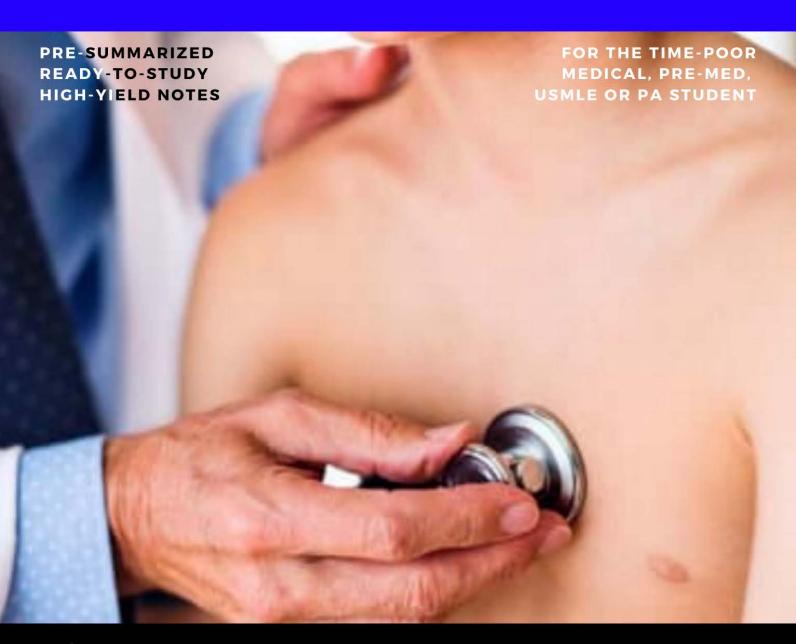
CLINICAL SKILLS & EXAMINATIONS

NOTES + BONUS VIDEOS





MEDICAL NOTES
(MBBS, MD, MBChB, USMLE, PA, & Nursing)
Anatomy, Physiology, Pathophysiology, Pathology, Histology & Treatments

Table Of Contents:

What's included: Ready-to-study summaries of clinical skills and the various examinations presented in succinct and logical downloadable PDF documents. Once downloaded, you may choose to either print and bind them, or make annotations digitally on your ipad or tablet PC.

Free bonuses: 10x Exemplary clinical examination demonstration videos.

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- Eye Exam (11p)
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- Bonus Clinical Examination Demonstration Videos (See external folder in downloads):
 - The Cardiovascular System Examination
 - Respiratory Examination
 - The Gastrointestinal Examination
 - Cranial Nerves Examination
 - Upper Limb Neuro Examination
 - Lower Limb Neuro Examination
 - Hands & Wrists Examination
 - Shoulders Examination
 - Knee Examination
 - Feet & Ankles Examination

The Ear History & Hearing Tests:

The Interview – Ear Related History

1. Presenting Symptoms

- Pain,
- Discharge
- Itching,
- Vertigo
- Tinnitis
- Changing in Hearing

2. History of Presenting Symptoms

- Onset weeks day, months
- Contributing factors trauma, recent illness, exposure to sudden loud noise
- Which ear effected
- Does anything make it worse, does anything make it better.

3. Medical History - Note specifically

- Hypoxia at birth
- Low birth weight less than 1500g
- Congenital abnormalities of the face or skull
- Maternal drug use
- Head trauma
- Ear trauma
- Genetic disease Meniere's Disease
- Chronic and acute infections ear, sinus, colds, flu

4. Surgical History – Note specifically

- Ear surgery grommets etc
- Sinus surgery
- Head and facial surgery
- Nerosugery

5. Medications: Many medications can be ototoxic. Note spefically:

- Large doses of Aspirin
- Gentamicin Sulphate
- Aminoglycosides

6. Social History – Note specifically:

- Exposure to loud noises at work, availability and us of PPE
- Exposure to Industrial noise
- Exposure to recreational noise

7. Family History – Note Specifically

- Family history of hearing loss
- Genetic disorders

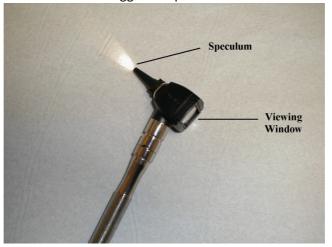
Examination of the Ear

External structures:

- Briefly examine the outer structures
 - Colour and texture of the skin
 - Any moles, cysts, nodes, or deformities
- Any skin changes suggestive of cancer (e.g basal cell, melanoma,
 - Any signs of swelling and/or redness
 - Discharge colour and odor
- Palpate the ear for pain, tenderness, skin texture and lesions.
 - 1. If pain increases external ear infection likely
 - 2. No pain increase middle ear infection likely
 - 3. Tenderness in mastoid area possible mastoiditis

External Auditory Canal and Tympanic Membrane:

- The Otoscope:
 - The otoscope allows you to examine the external canal,, as well as the tympanic membrane and a few inner ear structures. Use the biggest earpiece that can fit in to the ear canal.



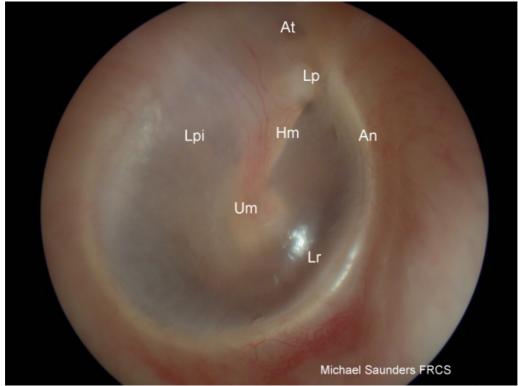
Examination procedure:

Always examine the unaffected ear first.

- 1. Place the tip of the specula in the opening of the external canal.
- 2. Gently grasp the top of the left ear with your left hand and pull up and backwards. This straightens out the canal, allowing easier passage of the scope.
- 3. Look through the viewing window with either eye. Slowly advance the scope, heading a bit towards the patient's nose but without any up or down angle.
- 4. As you advance, pay attention to the appearance of the external canal. In the setting of infection, called otitis externa, the walls becomes red, swollen and may not accommodate the speculum. In the normal state there should be plenty of room.

The Tympanic Membrane:

- The tympanic membrane (a.k.a. ear drum) should be visible.
 - Pay particular attention to:
 - a. The color: When healthy, it has a grayish, translucent appearance.
 - b. The structures behind it: The malleous, one of the bones of the middle ear, touches the drum.



An annulus fibrosus

Lpi long process of incus - sometimes visible through a healthy translucent drum

Um umbo - the end of the malleus handle and the centre of the drum

Lr light reflex - antero-inferioirly

Lp Lateral process of the malleus

At Attic also known as pars flaccida

Hm handle of the malleus

- a. In the setting of infection within the middle ear, the drum becomes diffusely red and the light reflex is lost
- b. fluid collecting behind the drum. This is called a middle ear effusion and can cause the drum to bulge outwards.

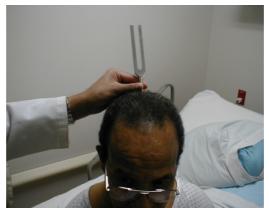
Detecting Conductive v. Sensorineural Deficits:

- **1. Conduction**: The passage of sound from outside to the level of the 8th cranial nerve. This includes transmission of sound through the external canal and middle ears.
- 2. Sensorineural: The transmission of sound through the 8th nerve to the brain.

Hearing loss can occur at either level. To determine which is affected, the following tests are performed:

Weber Test:

- 1) Grasp the tuning fork by its stem and place the stem towards the back of the patient's head equidistant from either ear. The bones of the skull will transmit this sound to the 8th nerve, which should then be appreciated in both ears equally.
 - a. If there is a conductive deficit (e.g. wax in the external canal), the sound will be heard better in that ear. This is because impaired conduction has prevented any competing sounds from entering the ear via the normal route.
 - b. In a sensorineural abnormality (e.g. an acoustic neuroma, a tumor arising from the 8th CN), the sound will be best heard in the normal ear.
- 2) If sound is heard better in one ear it is described as lateralizing to that side. Otherwise, the Weber test is said to be mid-line.



Rinne Test:

- 1) Place the stem on the mastoid bone and instruct the patient to let you know as soon as they can no longer hear the sound.
- 2) Then place the tines of the still vibrating fork right next to, but not touching, the external canal. They should again be able to hear the sound. This is because transmission of sound through air is always better than through bone.
- 3) This will not be the case if there is a conductive hearing loss which causes bone conduction to be greater than or equal to air.
- 4) If there is a sensorineural abnormality (e.g. medication induced toxicity to the 8th CN), air conduction should still be better then bone as they will both be equally affected by the deficit.





Tympanometry

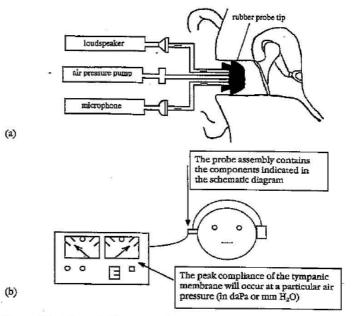


Figure 4.1: Schematic illustration of tympanometry equipment. (a) Shows detail of the probe that is inserted into the external auditory meatus. (b) Illustrates general set up. (In part, reproduced with permission from: Balthazor RJ and Cevette MJ (1978)).

Tympanometry is a sensitive procedure with the potential to detect middle-ear disorders before patient symptoms are obvious. For this reason there may sometimes be apparent inconsistency between the results of tympanometry and of visual inspection of the tympanic membrane (Haggard & Hughes, 1991).

ASSESSMENT IN SPEECH-LANGUAGE PATHOLOGY: A RESOURCE MANUAL

Tympanograms

The purpose of tympanometry is to determine the point and magnitude of greatest compliance (mobility) of the tympanic membrane. A tympanogram is a graph that illustrates the compliance on the y axis (left-hand side) and pressure (in mm H₂O) on the x axis (across the bottom). The results provide important information about middle ear function, and help diagnosticians detect different conditions and diseases of the middle ear. Tympanograms can be interpreted according to the peak pressure point, peak amplitude, and shape (Feldman, 1975). Based on dimensions of the tympanogram, several classifications and possible etiologies are:

Pressure (shown by location of peak)

Normal peak:

otosclerosis, ossicular chain discontinuity, tympanoclerosis, cholesteotoma in the attic space

No peak/Flat:

perforated tympanic membrane

Compliance (shown by height of peak)

Reduced amplitude: Normal amplitude:

increased amplitude: cardrum abnormality, ossicular chain discontinuity otosclerosis, tympanosclerosis, tumors, serous otitis media

eustachian tube blockage, early acute otitis media

Shape (shown by slope)

Reduced slope:

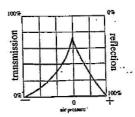
otosclerosis, ossicular chain fixation, otitis media with effusion,

Increased slope: Not smooth:

eardrum abnormality, ossicular chain discontinuity

vascular tumors, patulous eustachian tube, ossicular chain discontinuity, eardrum abnormality (Feldman, 1975, 1976)

air pressure is equal on both sides of tympanic membrane



maximum sound transmission occurs at atmospheric pressure

THE EYE EXAMINATION:

History: – (at least 80% o the diagnosis comes from the history)

- Take a meaningful, focussed history.
- Presenting complaint
 - Nature of Presenting complaint:
 - 1. Abnormal Vision? (Eg. Flashing lights/blind spot/etc)
 - 2. Abnormal Sensastion? (Eg. Itching/throbbing/pain)
 - 3. Altered Appearance?
 - o Time course
 - Sudden onset/Rapid Onset?
 - Duration
 - Exacerbating (What makes it worse)
 - Relieving (what makes it better)
 - Associated (What is it associated with)
- Past History
 - Meds / allergies
 - o Eg. Are they diabetic
 - o Eg. What environmental insults (Eg. Welder)
- Family history
- Social history

Possible Presenting Complaints:

1. Abnormal vision

- A) Reduced vision: (NB: If Sudden → Probably Vascular in Origin)
 - Central Loss:
 - Far/Near/Both
 - Peripheral Loss:
 - Partial/Total loss
 - Eg. Scotoma:
 - An area of degenerated visual acuity in one's <u>field of vision</u>, which is surrounded by a field of normal vision.





- Hemianopia (bilateral):
 - Type of partial <u>blindness</u> where vision is missing in the outer half of both the right and left visual field.
 - Usually associated with Optic Chiasm lesions.



- o Impaired Night vision (Ie. "Night Blindness"):
 - (a *symptom* of several eye diseases) Eg. From Vit.A Deficiency.
 - A condition making it difficult or impossible to see in relatively low light.
- Colour Blindness:
 - 8%males 0.5% females
 - (X-Linked Recessive)

B) Floaters:

- o Haemorrhage
- Inflammation
- Vitreous degeneration
- Muscae volitantes (Small Spots)



C) Flashers:

- o Due to Irritative stimulation of retinal or visual pathway (no sensation)
 - Unilateral (retinal)
 - Bilateral (Visual Pathway)(Eg. From migraine/basilar artery insufficiency)

- D) Haloes

- Rainbow coloured rings around lights
 - Due to Diffraction
 - Corneal oedema
 - Can suggest Increased intraocular pressure



- E) Metamorphopsia / Micropsia:

Metamorphopsia = Apparent distortion of straight lines



- o Micropsia = Objects are perceived to be smaller than they actually are
- Possible Causes:
 - Retinal oedema → Require urgent referral
 - Macular degeneration

F) Diplopia (Double Vision):

- **Binocular Diplopia:**
 - When axes of both eyes are not directed to the same object
 - Causes:
 - Muscle Weakness (Eg. Myasthenia)
 - Nerve Eg. CN-III with ptosis mydriasis
 - o Eg. CN-VI with head injury raised IC pressure
- Monocular Diplopia:
 - Patient sees double when viewing with only one eye.
 - Possible Causes:
 - Corneal Surface Deformity
 - Structural Defect in Eye
 - Lesion in Visual Cortex
 - Sub-Luxation of Lens



2. Abnormal Sensation:

- A) (Stinging/scratching pain) Foreign body sensation:
 - Causes include:
 - Entropion & Trichiasis (Eyelid folds inward → Eyelashes touching cornea)
 - Conjunctivitis
 - Xerophthalmia (dry eye)
 - Can be minimal in IOFB (Intra-Ocular Foreign Body)
 - o Local anaesthetic relieves it.
- B) (Achy Pain):
 - Eg. Photophobia (excessive sensitivity to light and the aversion to sunlight)
 - o Eg. Iritis (Inflammation of Iris)
 - o Eg. Keratitis (Corneal Inflammation)
- C) (Severe Deep Pain):
 - o Eg. Acute Closed Angle Glaucoma → requires Pupil Constriction to open the Canal of Schlemn.
 - o Eg. Herpes Zoster infection of the Eye.
- D) Asthenopia (eye strain):
 - o After intensive use of eyes
 - Oue to:
 - Inadequately corrected refractive error
 - Heterophoria (motion of the eyes are not parallel to each other)
- E) Watery eyes / discharge
 - Overproduction of tears (ocular irritation/ FB)
 - o Faulty drainage of tears
 - Instability of tears (Tears run down face instead of staying in the eyes → Dry Eyes)

3. Altered Appearance

- Proptosis (Eye Dislocation)
 - o From Orbital Infection, trauma, mass
 - o Eg thyroid



- Ptosis ('small' eye)
 - o CN-III nerve lesions
 - Levator abnormalities
 - o Local lid abnormalities eg infections



Lid retraction

• Where the lid retracts or moves away from the surface of the eye.



- Lesions
 - $\circ \quad \text{On lids} \quad$
 - o On globe eg pterygium



- Diffuse redness

- Ciliary injection

- Corneal/Iris Opacities:

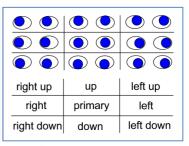
TESTING THE VISUAL SYSTEM:

- 1. Visual Acuity Tests (Snellen's Chart):
 - o All Australian charts are read at 6m (Or are standardised to 6m)
 - Tests 'Corrected' visual acuity @ a distance. (Those with 'corrected' vision use their glasses)
 - Each eye is tested Separately; Followed by vision with both eyes open.
 - Record results for:
 - Right Eye
 - Left Eye
 - Both Eyes
 - The Results are Fraction:
 - Numerator = the standardised distance that letter should be read at
 - **Denominator** = The distance that it should be visible from with perfect vision
 - Try using a Pinhole to Improve Visual Acuity (A pinhole eliminates the need for a lens)
 - If acuity improves with pinhole, it is a refractive error;
 - If acuity doesn't improve, it is a retinal problem.
 - IF they can't read the snellens chart (even from up close), you need to ask them whether they can see:
 - CF (count Fingers)
 - HM (Hand movements)
 - PL, NPL (Perception of Light/nil perception of light)(Shine a light in their eye)
 - o IF testing for Presbyopia use a 'Near-Reading Chart'.



- 2. Testing Extraocular Muscles (Eye Movement):
 - Start with the target 6inches in front of your partner; Then move your target slowly and smoothly in an wide "H" pattern.
 - Look for *Conjugate Movement*:
 - Movement of both eyes in a coordinate manner
 - Look for Nystagmus:
 - Rhythmic, involuntary oscillation of the eyes.
 - o Is movement Comitant/Incomitant?
 - (To the eyes move parallel to each other?)
 - (If there's strabismus, is the same angle of misalignment maintained in all directions?)
 - o NB: Deviation greatest when move towards field of action of involved muscle.
 - o Test Convergence for near Vision.

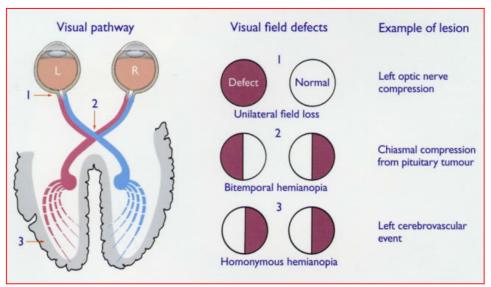
Name	ne Action	
Lateral rectus	Moves eye laterally	VI (abducens)
Medial rectus	Moves eye medially	III (oculomotor)
Superior rectus	Elevates eye and turns it medially	III (oculomotor)
Inferior rectus	Depresses eye and turns it medially	/ III (oculomotor)
Inferior oblique	Elevates eye and turns it laterally	III (oculomotor)
Superior oblique	Depresses eye and turns it laterally	IV (trochlear)



"SO4, LR6, the rest are 3" - Superior Oblique by CN-IV; Lateral Rectus by CN-VI, and all the other recti by CN-III.

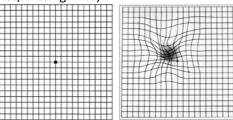
3. Visual field Test:

- Pt stares at your nose.
- o **A) Testing Peripheral Visual Field:** Use your fingers to test vision in peripheries of each quadrant. (Best to use a red-topped bottle/pin)
 - Sit in front of Pt with eyes at the same level, about an arm's length away.
 - Cover your left eye.
 - Ask your Pt to cover their Right eye and to stare into your open eye.
 - Compare your partner's peripheral visual field to your own:
 - Hold up your finger midway between yourself and the Pt (so it is just out of your field of vision).
 - Move your finger slowly towards the centre asking the patient when they first see it.
 - Test all four quadrants of the visual field (upper right, upper left, lower right, lower left).
 - Repeat for the right eye.
 - Remember that the visual field and the retina have an inverted and reversed relationship:
 - Upper field on the inferior retina
 - Lower field on the superior retina
 - Nasal field on temporal retina
 - Temporal field on nasal retina.



This Diagram is What was Asked in the GLS

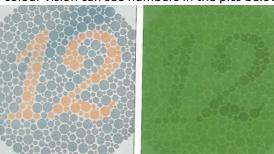
B) Testing Central Visual Field: Use an Amsler Grid to test Pt's *Central* Visual Field. (Pts with macular disease may see wavy lines/missing lines)



Normal Eg. Macular Degen.

4. Colour vision (Ishihara Tests):

- Tests for colour blindness
- :. Tests Cone Receptors.
- NB: Men are Most Affected by Colour Blindness:
 - Because it is Sex-Linked Recessive (on the X-Chromosome), and therefore acts dominantly when inherited in males (who only have 1x X-Chromosome).
 - Red-Green photoreceptor disorders are most common.
- People with normal colour vision can see numbers in the pics below:



5. Pupillary Reflexes:

- o (NB: The *constriction* reflexes are Parasympathetic-Mediated)
- o PERLA is Pupils Equal Round Reactive to Light and Accommodation.
- A bright source of light is used to test pupillary reflexes by swinging the light in front of right eye 2 times, while observing 1st right pupil and then the left. Test is then repeated for left eye.
 - 1. Dim lights.
 - 2. Ask Pt to stare at a target in the distance.
 - 3. Turn on the light and look at the **right pupil** as you swing the light over the **right eye**. Watch as the pupil constricts.
 - This is the direct response.
 - 4. Repeat the same procedure again but this time look at the **left pupil** as you swing the light over the **right eye**. Does it also constrict?
 - This is the consensual response.
 - 5. Now repeat the procedure with the **left eye**. First looks at the left pupil as you shine the light on the left eye, then look at the right pupil.
- Oirect:
 - Eg. Right Pupil contracts when Right Eye exposed to Light.
- Consensual:
 - Eg. Left Pupil Contracts when Right Eye exposed to Light.
- Testing Accommodation-Mediated Pupillary Constriction:
 - (Pupil Constriction Associated with the Accommodation)
 - 1. Ask your Pt to hold their finger about 8 inches from their nose.
 - 2. Ask your Pt to look in the distance and then look at their finger.
 - 3. Watch for convergence (crossed eyes) and pupillary constriction.
- NB: Corneal Opacities/Cataracts can Affect the Pupillary Response:
 - → Decreased pupillary response in both the affected eye (Direct response) and the other eye (Consensual response) because less light falls on the retina of the affected eye.

Ophthalmoscopy Technique:

- Ask pt to look straight ahead both eyes open
- Set to zero
- Use right hand and right eye for pt's right eye, and left ditto for left eye
- Hold sight hole as close as possible to your eye, steady it against your nose
- Gently raise lid with your thumb
- Find red reflex (the reddish-orange reflection from the eye's retina when using an ophthalmoscope)
 - o Stand at arms length and focus on the pupillary area with ophthalmoscope
 - Should be able to see an uniform orange glow
 - This is due to light being reflected from the choroidal vessels
 - Look for any opacity in the red reflex
 - o (Abnormal or absent reflex especially in children could mean sight threatening condition. Need to be referred and treated quickly otherwise vision fails to develop)



- Follow it in at about 15 degrees temporal to line of vision
- Focus
- Find a blood vessel
- Follow it to the disc
- Systematically examine
 - Vessels / Macula / Vessels
 - Optic Disc
 - Colour (normal pink)
 - Margins Well defined
 - Cup:Disc Ratio. Normal is less than half of the disc diameter. (If ratio is increased → Probably Glaucoma)

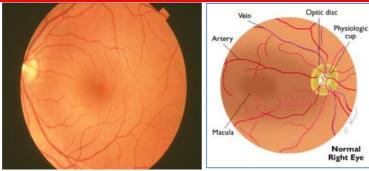
> Retina:

- Look for:
 - Haemorrhages/Exudates/New Blood Vessels/Arteries/Veins (Bigger & Darker)
- Common causes of retinal changes:
 - Diabetic Retinopathy (leading cause of blindness in <60rys)
 - Age Related macular degeneration (Leading cause of blindness in >60yrs)
 - Hypertensive retinopathy
 - Retinal Artery Occlusion
 - Retinal Vein occlusion

Macula:

- Darker than rest of retina (Due to pigment and thick ganglion cell layer)
- Temporal to the disc
- Centre of macula is the fovea.
 - No blood vessels overlying the fovea

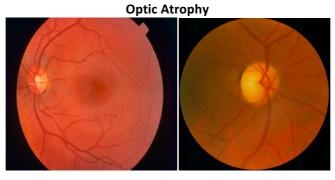
Normal Fundus



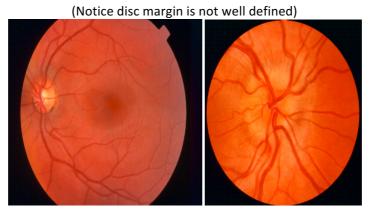
ABNORMAL OPTHALMOSCOPY FINDINGS

OPTIC DISC ABNORMALITIES (NORMAL VS. ABNORMAL)

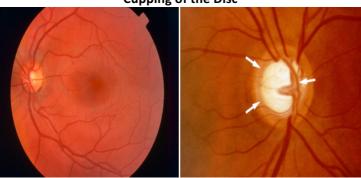
MAL VS. ABNORMAL



Swollen Disc



"Cupping of the Disc"



This ratio is approx. 0.6

RETINAL ABNORMALITIES (NORMAL VS. ABNORMAL)





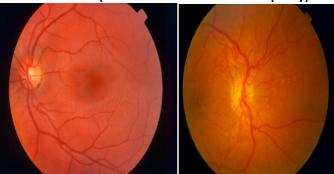
These are hard exudates because areas of leakage → protein & calcium deposits.



These are soft exudates (Aka: "Cotton wool Spots") due to ischaemia

BLOOD VESSEL ABNORMALITIES (NORMAL VS. ABNORMAL)

New Vessels (Proliferative Diabetic Retinopathy)

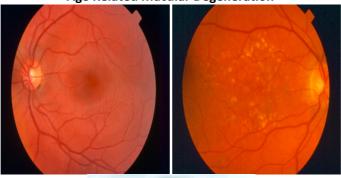


New Vessels (abnormal) - Proliferative diabetic retinopathy (Most common fundal abnormality that you'll see)

These are dangerous because they are very fragile and can bleed very easily. → Impairs Vision

MACULAR ABNORMALITIES (NORMAL Vs. ABNORMAL)

Age Related Macular Degeneration





- Loss of Vision in the Center of the Visual Field (the macula) due to Damage to the Retina.
- → Can make it Difficult/Impossible to Read or Recognize Faces, although enough peripheral vision remains to allow other activities of daily life.
- Most common form of blindness in over 65s

The "Well-Woman's Health Check" - (Breast, Pap Smear, Pelvic Exam):

- Wash hands
- Ask about the well woman's check.
 - Are they sexually active? When was their last pap smear? (Pap smears recommended every 2 years starting 1-2 years after first sexual activity until death)
 - Have they ever been screened for breast cancer? (Mammogram Screening is recommended every 2 years starting at age 50-70)
 - Do they wish to be screened for STI's? Gonorrhea, Chlamydia, HIV, Syphilis? (Recommended For px's
 < 25 years old for High Vaginal Swab Chlamydia +/- Urine Sample for Gonorrhoea)
- Explain the examination & Get consent + ASK FOR A CHAPERONE.
- Explain that the exam may be discontinued at their discretion
- Ask px to undress and drape themselves in privacy and let you know when they're ready
- Ask: Any areas of concern?

The Breast Examination:

- General Inspection (Peud'e'Orange, Skin Puckering, Nipple Retraction, Lumps/Masses, Discharge, Tethering):
 - Sitting up with hands on hips
 - Roll Shoulders forward
 - Roll shoulders back
 - Hands above head (do twice and look at both sides)

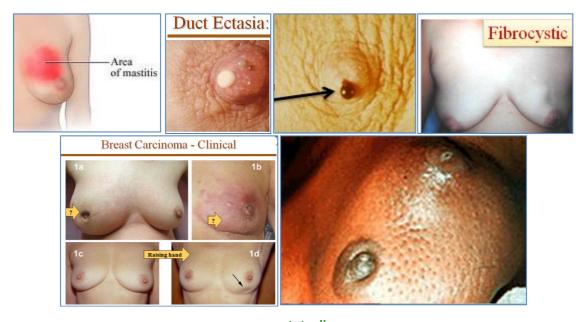
Palpation:

- Sitting Up (Lymphadenopathy):
 - Lymph Nodes (Supraclavicular, Infraclavicular, Parasternal, Pectoral, Subscapular, Central, Lateral)
- Lying Down with Arm Behind head (Firm Masses distinct from normal nodularity of breasts):
 - Zig Zag in a North-South Fashion starting at Upper Sternal Border, all the way across the breast, and finish up in the tail (overlying the shoulder).
 - Start with light pressure, then deep pressure
 - Do not lift hand when moving to next area
 - Assess for Subareolar Masses
 - Assess for Nipple Discharge
 - NB: Whilst doing this, Educate Patient about Breast Awareness:
 - Do you do your own breast self examination? (Most lumps are found by themselves)
 - You don't need a FamHx to get breast cancer (> 90% breast cancer have no famHx)
 - Women with a FamHx of breast/ovarian cancer are at ↑risk of developing breast cancer
 - Mammogram Screening is recommended every 2 years starting at age 50-70

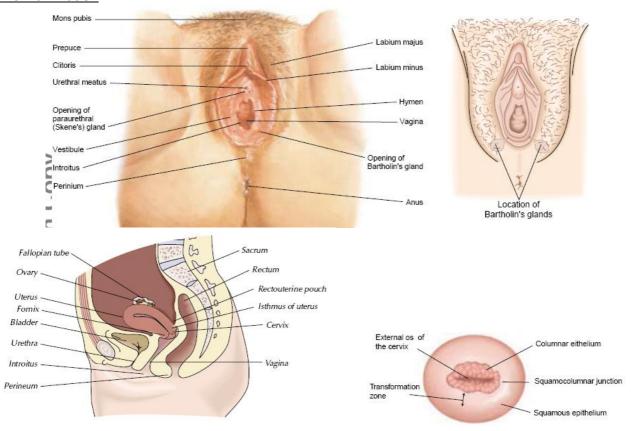
REMEMBER TO DO THE OTHER SIDE AS WELL!!

Conclusion:

- "Everything looks healthy and normal"
- "Ok we are now going to move onto the pap smear and pelvic examination. Are you okay with that?"

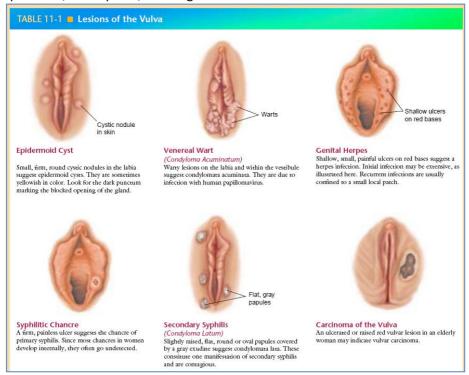


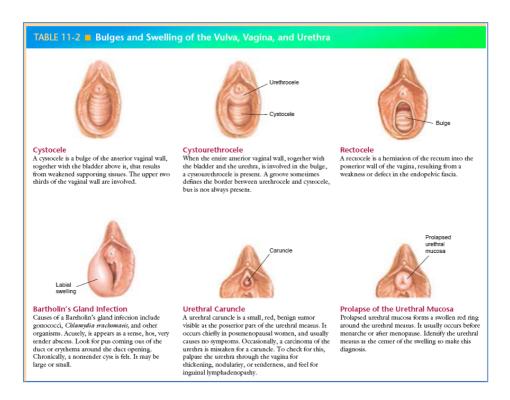
The Pelvic Examination



General Inspection & Palpation:

- First I am going to inspect the external genitalia, you will feel my fingers palpating you, please put soles of feet together and relax knees to side.
 - Touch inner thigh before touching genitals
 - o Open labia majora
 - Inspect labia minora, clitoral hood, urethral orifice, ask pt to bear down and inspect for cyst/rectocele, urethra/uterine prolapse, inspect bartholins glands, fourchette, perineum, anus. Also inspect skin, mons pubis, intertrigenous areas and hair distribution





Speculum Examination & Pap Smear:

- I will now insert the speculum so I can see your cervix and obtain a pap smear (and cultures)
 - Pick up speculum in left hand. Apply lubricant to back 2/3 of speculum with right index finger. Switch speculum to right hand
 - Touch the inner thigh before touching genitalia
 - Place bottom bill of speculum against the fourchette and introduce speculum into vagina with downward pressure until it is fully inserted
 - Open speculum by pressing on lever, open and adjust until cervix comes into view, tighten screw to hold speculum in open position while accessing pap/culture supplies
 - Obtain pap/cultures DON'T FORGET TO SPRAY THE SAMPLES WITH FIXATIVE IMMEDIATELY!!
 - Note position of cervix normal/prolapsed
 - Note whether cervix is parous or nulliparous
 - Note any discharge from cervix (mucoid, clear, yellow, bloody) or in vaginal vault
 - Note if cervix is friable or has any lesions
 - Note whether vagina is ruggae or is atrophic
 - Release screw while keeping pressure on level (to avoid bills closing on cervix) remove speculum
 approximately 1 cm and then release lever so speculum is closed as it is removed form the vagina
 - Everything appears to the healthy and normal OR discuss abnormal findings after exam is completed and px is dressed

Bimanual Pelvic Examination:

- I am now going to do the bimanual exam this consists of inserting 2 gloved fingers into the vagina and palpating the uterus and ovaries:
 - Touch inner thigh before touching genitals
 - Insert gloved index and middle finger of right hand into vagina with downward pressure on fourchette, may say relax this muscle here
 - Determine location of cervix, move fingers behind cervix and move cervix upward to test for cervical motion tenderness, observe px's face for reaction
 - Place fingers on cervix while placing left hand on px's abdomen and assess size, contour and mobility
 of uterus
 - Remove ringers a few cm and place along left side of cervix in fornix. Fingers point upward as left hand palpates along left side of uterus to assess adnexa. Remove fingers a few cm and repeat on right side
 - Remove fingers and then gloves and say to px 'everything appears healthy and normal' 'I'll leave so
 you may get dressed' 'I will be back to answer any questions you may have'
 - Hand px box of tissues
 - o Rectal exam as indicated

Clinical Investigations

• Pap, GC/Chlamydia, other STI, urine pregnancy test, urinalysis, mammogram, breast/pelvic US.

Post Exam Education - explain

- Any questions or concerns?
- Explain Pap Smear:
 - On visual inspection everything appeared "Healthy and normal", but we will await the results of the pap smear to see if there are any microscopic abnormalities.
 - o In the meantime, you may experience some **mild spotting** If this is severe go straight to the ED.
 - o Results are expected in one week. Arrange for call back.
 - Would you like to be placed on the Pap Smear Register (free register which will inform you of when you should come in for your next pap smear)
 - Remind the patient that Screening pap smear is recommended every 2 years starting 1-2 years after first sexual activity, and for as long as sexually active.
- Thank the patient and conclude the examination.

Gynaecological History:

Introduction

Consent – Can I ask you some questions regarding your reproductive and sexual health?

Menstrual History

- Age of Menarche (& Menopause if relevant)?
- LMP Last menstrual period? (& Was the last period 'normal'?)
- Regularity of periods? (N ≈Predictable timing of menses)
 - Duration of cycle? (N ≈28days)Duration of menstruation? (N ≈5days)
 - O (NB: Irregular can = PCOS/Stress/Anorexia/PID/Fibroids/etc)
- Quantity of bleeding? (Amenorrhoea, Menorrhagia)
- Intermenstrual Bleeding Ie. bleeding between periods?
- Dysmenorrhoea Ie. Painful periods?
- Dyspareunia Painful Intercourse (Endometriosis)
- Associated Symptoms: Abdominal pain, Fever, Vaginal Discharge

Sexual History:

- Are you sexually active?
- Do you currently have one or more sexual partners?
- Heterosexal/Homosexual
- How many sexual partners have you had in the past 6 months?
- Have you ever been diagnosed with any STIs?
 - o Which ones?
 - o Treated?
- Last STI screen?
- Do you practice safe sex?

Contraceptive use:

- Any current contraceptives?
 - o Which one/s?
 - o For how long?
 - o Compliance?
 - O Understanding of how to use it effectively?
 - o Any side effects? (weight gain, mood swings)
- Any past contraceptives?
- Barrier protection

Past Gynaecological History?

- Up to date with Pap-Smears?
- Gardasil Vaccinations? All 3?
- Results of last Pap-Smear?
- Any Previous Smear Abnormalities?
- Previous Colposcopy?

Past Gynaecological Surgeries?

- LLETZ Procedures? (For CIN1/3)Cone Biopsy? (For CIN1/3)
- Hysterectomy?
- Oophorectomy?
- Tubal Ligation? (For Contraception)

(Other History):

- Obstetric History
- PMH
- PSH
- Current Medications
- Allergies
- SocHx
- Systems Review
- Examination

Male Genitourinary Exam

Sequence

- 1. Wash hands
- 2. Introduce your self
- 3. Ask the patient's name
- 4. Ask the patients age
- 5. Explain the procedure
 - a. Involves inspection and palpation of the penis, testes and examination for hernia's.
- 6. Ask the patient to gown or drape.
- 7. Ask the patient to expose their groin and genitalia
- 8. Px can be lying or standing standing preferable (hernia's are more easily seen this way)
- 9. General appearance
 - a. Anxious
 - b. Comfortable
 - c. In distress
 - d. Unable to stand

10. Penis

- a. GLANS TO SHAFT
 - i. Glans
 - 1. Comment on circumcision
 - 2. Urethra location (hypospadia's), discharge (px may need to milk to penis)
 - a. Press end to open urethra
 - 3. Retract prepuce smegma, phimosis, paraphimosis
 - ii. Shaft
 - 1. Inspect vesicles, verruca (condyloma acuminatum), ulcerations, nodules, scars, inflammation (balanitis)
 - 2. Palpate for tenderness, induration, deformity,
 - iii. Skin at base of shaft
 - 1. Excoriation, inflammation, burrows, nits, lice
 - iv. Hair of pubic region
- b. Scrotum
 - i. Inspect
 - 1. Rashes, epidermoid cyst, other lesions
 - 2. View above, below, lift penis
 - ii. Palpate
 - 1. Testis + epididymis
 - a. Size, shape, consistency, nodules
 - 2. Spermatic cord
 - 3. Transluminate mass
- 11. Hernia Evaluation
 - a. Inguinal
 - i. Inspect
 - 1. Ask px to bear down, cough
 - ii. Palpate
 - 1. Right index finger for right inguinal
 - 2. Ask px to cough
 - 3. A hernia will touch your finger
 - iii. Auscultate
 - 1. Bowel sounds
 - b. Femoral
 - i. Inspect
 - ii. Palpate
 - 1. Femoral artery hernia will be around there somewhere
 - 2. Ask px to cough

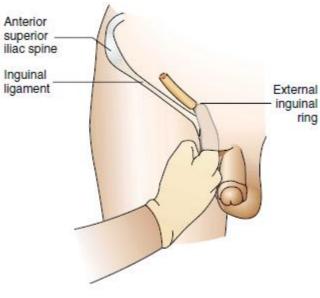
RECOMMEND

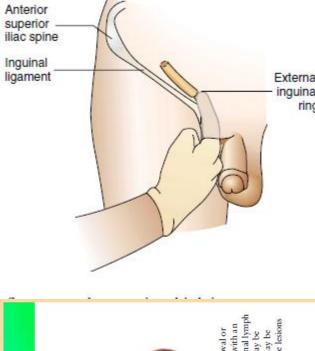
- Self examination of the testicles every month
- Clean the inside of the penis if uncircumcised

Male Digital Rectal Examination & Prostate Examination:

- 12. Patient in Left Lateral Position Get them to shuffle towards the edge of the bed until they touch your hip
- 13. General Inspection of Perineum (Scars, Fissures, Haemorrhoids, Skin Tags, Infection, Discharge)
- 14. "Ok we're going to begin the rectal examination now"
- 15. Lubricate Index Finger and place on the anus, tell the patient to exhale or bear down, and as they do, curl your finger inside the anus.
- 16. Assess Sphincter tone & power by asking them to tighten their anus
- 17. Rotate finger a full 360° noting:
 - a. rectal masses, tenderness, faeces
 - b. Prostate: Normal rubbery & smooth with median sulcus? Nodular, hard and enlarged? Loss of median sulcus? Tenderness (Prostatitis)
- 18. Advise patient that you're removing your finger.
- 19. Wipe finger onto white towel and inspect for any blood, pus or mucus.
- 20. Wipe patient's anus with towel
- 21. Advise patient to get dressed

Pictures







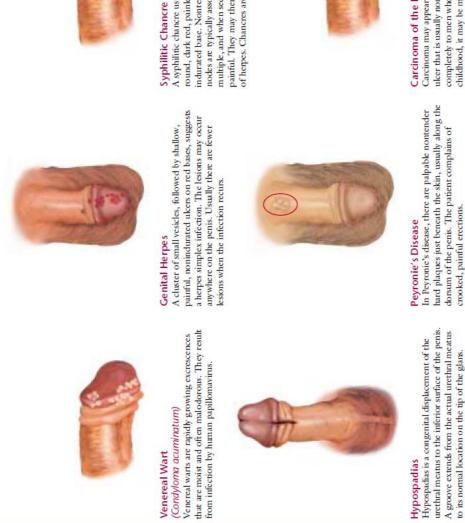
Abnormalities of the Penis

TABLE 10-1

indurated base. Nontender enlarged inguinal lymph nodes are typically associated. Chancres may be multiple, and when secondarily infected may be painful. They may then be mistaken for the lesions round, dark red, painless erosion or ulcer with an A syphilitic chancre usually appears as an oval or of herpes. Chancres are infectious.



persistent penile sore must be considered suspicious. childhood, it may be masked by the prepuce. Any Carcinoma may appear as an indurated nodule or ulcer that is usually nontender. Limited almost completely to men who are not circumcised in Carcinoma of the Penis

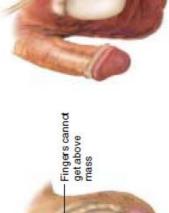


Hypospadias

TABLE 10-2 Abnormalities of the Male Genitalia



Fingers cannot getabove





palpable left testis or epididymis. Cryptorchidism markedly raises inguinal canal or the abdomen, In cryptorchidism, the testis is scrotum as above. There is no atrophied and may lie in the resulting in an undeveloped Cryptorchidism

the risk of testicular cancer.



generalized edema of congestive heart Pitting edema may make the scrotal skin taut. This may accompany the failure or nephrotic syndrome. Scrotal Edema

the external inguinal ring, so the examining

fingers cannot get above it in the scrotum.

indirect inguinal hernia. It comes through

A hernia within the scrotum is usually an

A hydrocele is a nontender, fluid-filled

Hydrocele

mass within the tunica vaginalis. It transilluminates and the examining

fingers can get above the mass within

the scrotum.

Scrotal Hernia



Any nodule within the testis warrants Usually appears as a painless nodule. investigation for malignancy. Tumor of the Testis



As a testicular neoplasm grows

Late



atrophy seen in drrhosis, mytonic dystrophy, usually ≤ 2 cm. Small soft testes suggesting Small firm testes in Klinefelter's syndrome,



In adults, the length is usually ≤ 3.5 cm. Small Testis to distinguish from the epididymis. The tender, and swollen. It may be difficult The testis is acutely inflamed, painful,

unilateral.

Acute Orchitis





Acute Epididymitis

the testis. The scrotum may be reddened, and the vas deferens inflamed. It occurs chiefly in adults. swollen and may be difficult to distinguish from Coexisting urinary tract infection or prostatitis An acutely inflamed epididymis is tender and supports the diagnosis.



Tuberculous Epididymitis

produces a firm enlargement of the epididymis, which is sometimes tender, with thickening or The chronic inflammation of tuberculosis beading of the vas deferens.

latter does not, but they are clinically indistinguishable.

suggests a spemnatocele or an epididymal cyst. Both transilluminate. The former contains sperm and the

A painless, movable cystic mass just above the testis

Spermatocele and Cyst of the Epididymis



These are firm, yellowish, nontender, **Epidermoid Cysts**

cutaneous cysts up to about 1 cm in diameter.

They are common and frequently multiple.

associated urinary infection. Torsion, most common in cord produces an acutely painful, tender, and swollen Torsion, or twisting, of the testicle on its spematic organ that is retracted upward in the scrotum. The scrotum becomes red and edematous. There is no adolescents, is a surgical emergency because of obstructed circulation.



Varicocele

Varicocele refers to varicose veins of the spermatic cord, usually found on the left. It feels like a soft slowly collapses when the scrotum is elevated in the supine patient. Infertility may be associated. "bag of worms" separate from the testis, and



Torsion of the Spermatic Cord



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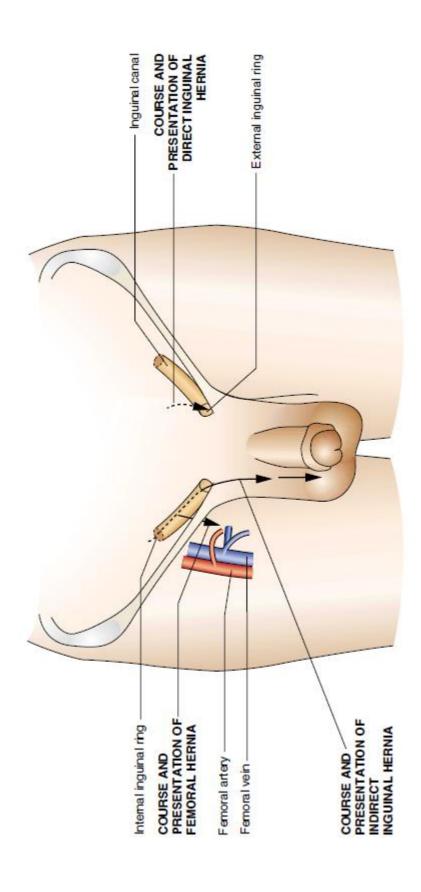


TABLE 10-4 Differentiation of Hernias in the Groin

Differentiation among these hernias is not always clinically possible. Understanding their features, however, improves your observation.

	Femoral	Least common More common in women than in men	Below the inguinal ligament; appears more lateral than an inguinal hernia and may be hard to differentiate from lymph nodes	Never into the scrotum The inguinal canal is empty.
Ingui	Direct	Less common Usually in men over age 40, rare in women	Above inguinal ligament, close to the pubic tubercle (near the external inguinal ring)	Rarely into the scrotum The hernia bulges anteriorly and pushes the side of the finger forward.
	Indirect	Most common, all ages, both sexes Often in children, may be in adults	Above inguinal ligament, near its midpoint (the internal inguinal ring)	Often into the scrotum The hernia comes down the inguinal canal and touches the fingertip.
		Frequency Age and Sex	Point of Origin	Course With the examining finger in the inguinal canal during straining or cough

Full & Focussed Cardiovascular Exams

Full Cardio Exam:

- Introduction + Consent + Wash Hands
- General Inspection:
 - o Body Habitus:
 - Cardiac Cachexia (Portal Hypertension/RHF)
 - Obesity (Diabetes/Dyslipidaemia/Poor Diet)
 - o Alert & Orientated?
 - o Dyspnoea/Respiratory Distress (CCF, Pulmonary Hypertension, Corpulmonale, MI)
 - Discomfort/Pain (Angina, MI, Pericarditis, Tamponade)
 - o Diaphoresis (Angina, MI, Pain)
 - Chest Deformities/Surgical Scars (CABG, Valve Repairs)
 - Congenital Facies (Marfan's, Down's, Turner's Syndromes)

Vital Signs:

- Pulse:
 - Tachycardia (Shock, MI, Pain, Anaemia)
 - Irregular (AF MI, Alcohol, Mitral Regurg/Stenosis)
 - Low Volume (Shock, MI, Tamponade)
- Respiratory Rate:
 - Tachypnoea (Shock, MI, Pain, Anaemia)
- Blood Pressures:
 - Hypertension (Pain, Essential Hypertension)
 - Hypotension (Shock, Heart Failure)
- Temperature:
 - Fever (Infective Endocarditis, Pericarditis, Myocarditis)
- Hands:
 - Perfusion + CRT
 - Pale Nails & Palmar Crease Pallor (Anaemia)
 - Palmar Erythema (Polycythaemia)
 - o Peripheral Cyanosis (Heart Failure, Pulmonary Oedema)
 - Clubbing (Chronic Cyanosis eg. "Cyanotic Heart")
 - Splinter Haemorrhages/Osler's Nodes (Painful Fingertips)/Janeway Lesions (Palms Infec.Endo)
 - Xanthomata (Cholesterol in tendons Dyslipidaemia)
 - Dupuytren's Contracture (Alcohol Dilated Cardiomyopathy)
- Arms:
 - RR-Delay (Coarctation of the Aorta)
 - RF-Delay (Coarctation of the Aorta)
 - Track marks (IVDU/Infec.Endo)
- Face:
 - Eyes:
 - Conjunctival Pallor (Anaemia)
 - Scleral Icterus (Jaundice)
 - Xantholasma (periorbital cholesterol)
 - +Fundoscopy for Roth's Spots (Infective Endocarditis)
 - Arcus Senilis (Sign of CVD risk factors)
 - Mitral Facies/Malar Rash (Mitral Stenosis)
 - O Mouth:
 - Hydration
 - Central Cyanosis/Peripheral Cyanosis (CCF Pulmonary Oedema
 - Gum Pallor (Anaemia)
 - Poor Dental Hygeine (Infec.Endo)
 - High Arched Palate (Marfan's Syndrome)
- Neck:
 - ↑JVP (RVF, Pulmonary Hypertension) + Hepatojugular Reflex
 - Jugular Venous Pulsations (Tricuspid Regurgitation)
 - Carotid Pulses (Character/Volume)
 - Carotid Bruits (Carotid Stenosis Atheroma)

Chest:

- Inspection:
 - Scars (CABG, Sternotomy)
 - Chest Deformities (Pectus Excavatum, Pectus Carinatum, Barrell Chest, Kyphosis, Lordosis)
 - Bruising
 - Visible Apex Beat
 - Pacemaker

Palpation:

- Apex Beat (Normally 5ICSMCL) Displaced in Cardiomegaly & Hypertrophic Cardiomyopathy.
- Heaves (Mitral/Tricuspid Regurgitation)
- Thrills (Palpable Systolic Murmurs)

Percussion (NOT NECESSARY):

- Heart Borders
- Auscultation:
 - Muffled Heart Sounds (COPD, Tamponade)
 - Murmurs (Mitral/Tricuspid/Aortic/Pulmonary Valves) (Bell Diastolic)(Diaphragm Systolic)
 - +/- Axillary/Carotid Radiation
 - Pericardial Friction Rub (Pericarditis)

- Back:

- (+ Respiratory if CCF Basal Inspiratory Crackles)
- Sacral Oedema (RHF)

Abdomen – LYING FLAT!!:

- Visible Pulsatile Masses (Aneurysm)
- o Scars
- Tenderness
- Hepatomegaly (Portal Hypertension/RHF)
 - + Pulsatile (If Tricuspid Regurg)
- Splenomegaly (Infec.Endo)
- o Ascites/Shifting Dullness/Fluid Thrill (RHF)
- Aortic Width (Aneurysm)
- o Renal Bruits

Legs & Feet:

- o Peripheral Oedema (RHF)
- Venous Stasis (Shiny Skin, Hair Loss, & Venous Ulcers)
- o Calf Tenderness (PVD, PE)
- Arterial Ulcers
- o Pulses (Popliteal/Dorsalis Pedis/Posterior Tibial)
- o Cap Refill/Warm/Well Perfused
- Clubbing
- Splinters/Janeways/Oslers

Full & Focussed Endocrine Exams

Full Endocrine Exam:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Facies:
 - Moon Facies (Cushings),
 - Frightened Stare (Graves Hyperthyroidism)
 - Anhedonic + Puffy Eyes (Hashimotos Hypothyroidism)
 - Frontal Bossing, Enlarged Jaw/Tongue/Nose/Ear/Brow (Acromegaly)
 - Hyperpigmented + Wasting (Addison's)
 - Hirsutism + Receding Hairline (PCOS)
 - Body Habitus:
 - Obesity (D2M, Cushing's, Hypothyroidism)
 - Wasting (D1M, Addison's, Hyperthyroidism)
 - Central Adiposity (Cushing's Syndrome)
 - Hair Distribution:
 - Hair Loss (Hypothyroidism)
 - Hirsutism (Cushing's & PCOS)
 - Pigmentation:
 - Generalised Hyperpigmentation (Addisons, Haemochromatosis)
 - Acanthosis Nigricans (Diabetes, Cushing's, Acromegaly, PCOS)
 - Mental Changes:
 - Slowness (Hypothyroidism, DKA, HONC, Addison's)
 - ↓Affect (Hypothyroidism)
- Vital Signs:
 - o Pulse:
 - Tachycardia (Hyperthyroidism, Phaeochromocytoma, DKA)
 - Bradycardia (Hypotension)
 - Blood Pressure:
 - Hypertension (Hyper & Hypothyroidism/Phaeo/Cushing's/Conn's/PCOS/Acromegaly)
 - Hypotension (Addison's)
 - Respiratory Rate:
 - Typically Normal
 - Tachypnoea (DKA)
 - Temperature:
 - Hyperthermia (Hyperthyroidism)
 - Hypothermia (Hypothyroidism)
- Hands:
 - Warm, Well Perfused, ↓CRT, Erythema, Sweaty (Hyperthyroidism/Phaeochromocytoma/Acromegaly)
 - Cool, Poorly Perfused, ↑CRT, P.Cyanosis, Dry (Hypothyroidism)
 - Tremor (Hyperthyroidism, Phaeochromocytoma)
 - Clubbing/Thyroid Acropathy (Grave's Disease[Hyperthyroidism])
 - o Plummer's Nails/Onycholysis (Grave's Disease [Hyperthyroidism])
 - Brittle Nails (Hypothyroidism)
 - o Palmar Crease Pigmentation (Addison's Disease)
 - o Large, Spade-like Hands (Acromegaly)
 - o Osteoarthritic Heberton's & Bouchard's Nodules (Acromegaly)
 - Xanthomata (Hypothyroidism, Diabetes, Cushings, Acromegaly, PCOS)
- Arms:
 - o Proximal Myopathy (Hyperthyroidism, Hypothyroidism, Cushing's, Acromegaly)
 - Hyperreflexia (Hyperthyroidism); Hung Reflexes (Hypothyroidism)
 - Muscle Wasting (Diabetes, Addison's)

- Face:

- o (Conjunctival Pallor, Central/Peripheral Cyanosis)
- Receding Hairline + Loss of Lateral 1/3 Eyebrow + Periorbital Myxoedema (Hypothyroidism)
- Exophthalmos + Lid Lag (Hyperthyroidism)
- o Xanthelasma (Hypothyroidism, Diabetes, Cushing's, Acromegaly, PCOS)
- Bitemporal Hemianopsia (Pituitary Adenomas → Cushing's, Hyperthyroidism, Acromegaly, Prolactinoma, Conn's)
- Fundoscopy (Hypertensive & Diabetic Retinopathy)
- Buccal Hyperpigmentation (Addison's)
- Mouth Infections (Diabetes, Cushings)

Facies:

- Moon Facies (Cushings),
- Frightened Stare (Graves Hyperthyroidism)
- Anhedonic + Puffy Eyes (Hashimotos Hypothyroidism)
- Frontal Bossing, Enlarged Jaw/Tongue/Nose/Ear/Brow (Acromegaly)
- Hyperpigmented + Wasting (Addison's)
- Hirsutism + Receding Hairline (PCOS)

- Neck:

Thyroid Gland Examination:

- General Inspection:
 - Thyroidectomy Scars
 - Goitre (Hyperthyroidism/Hypothyroidism)
 - Swallow Test (Is it mobile?)

Palpation From Behind:

- Locate Thyroid Gland (2cm below laryngeal prominence)
- Goitre (Hyper/Hypo) Size, Consistency, Tenderness, Mobility, Thrill
- Swallow Test (Mobility)
- Cervical Lymphadenopathy (Grave's & Hashimoto's)

Auscultate:

• Thyroid Bruits (Hyperthyroidism)

Retrosternal Goitre?:

- Pemberton's Sign
- Abdominojugular Reflux
- 个JVP
- Percuss Across Sternum
- Acanthosis Nigricans (Diabetes, Cushing's, Acromegaly, PCOS)
- Buffalo Hump & Supraclavicular Fat Pads (Cushing's)
- Carotid Bruits (Diabetes, Cushing's, Acromegaly, PCOS)

- Chest:

- Hair Distribution (PCOS)
- Gynaecomastia (Hyperthyroidism, Cushing's, Acromegaly)
- Bony Tenderness (Cushings[Osteoporosis], Hyperparathyroidism[Osteoclast], Acromegaly[Growth])
- Hypertrophic Cardiomyopathy (Acromegaly) → Murmurs, Displaced Apex Beat
- o Pericardial Effusion + Pleural Effusion (Hypothyroidism)
- o Molluscum Fibrosum in Axilla (Acromegaly)

- Abdomen:

- Central Adiposity (Type2Diabetes, Cushing's)
- o Obesity (Type2Diabetes, Cushing's, Hypothyroidism, PCOS[Metabolic Syndrome])
- Striae (Cushing's)
- Fat Atrophy @ Injection Sites (Diabetes)
- Hepatomegaly (Diabetes[fatty liver], PCOS[fatty liver], Acromegaly[GH stimulation])
- Hepatomegaly + Splenomegaly + Renal Enlargement (Acromegaly)
- Adrenal Masses (Cushing's, Addison's, Conn's, Phaeochromocytoma)
- Ovarian Masses (PCOS)
- ↑Bowel Sounds (Hyperthyroidism); ↓Bowel Sounds (Hypothyroidism)

Legs:

- Proximal Myopathy (Hypethyroidism, Hypothyroidism, Cushing's, Acromegaly)
- Quadriceps Atrophy (Diabetes)
- o Fat Atrophy @ Injection Sites (Diabetes)
- o Pretibial Myxodema (Hyperthyroidism); Non-Pitting Oedema (Hypothyroidism)
- o Shiny, Hairless Skin + Pitting Oedema (Diabetes→PVD)
- Charcot's Joint (Diabetes)
- Arterial/Venous Ulcers (Diabetes)
- Hyperreflexia (Hyperthyroidism); Hung Reflexes (Hypothyroidism)
- Foot-Drop (Acromegaly[Common Peroneal Nerve Entrapment])

Feet:

- Tendon Xanthomata (Hypothyroidism, Diabetes, Cushing's, Acromegaly, PCOS)
- Warm, Well Perfused, Erythema, ↓ CRT, Sweaty (Hyperthyroidism, Acromegaly)
- Cool, Poorly Perfused, ↑CRT, P.Cyanosis, Dry (Hypothyroidism)

Diabetic Leg & Foot Exam:

General Inspection:

- Quadriceps Wasting (Diabetic Amyotropy)
- Shiny Skin + Hair Loss + Pitting Oedema + Venous Stasis Ulcers
- Arterial Ulcerations
- Neuropathic Ulcerations
- Necrobiosis Diabeticorum
- Tendon Xanthomata
- Peripheral Perfusion + CRT + Peripheral Pulses
- Bunions (Hyperkeratosis on Pressure Points)
- Halux Valgus, Pes Cavus, Loss of Transverse Arch, Hammer Toes
- Fungal Infections of Nails & Between Toes

Neurological Testing (Pt's Eyes Closed)

- Monofilament[light touch] on 10 Areas of Feet
- Monofilament[light touch] on All Dermatomes of Leg
- Vibration Sense Start as distally as possible
- Proprioception Sense
- Pain Sense Over All Dermatomes of Leg
- Muscle Power
- Reflexes

Diabetic Patient Focussed Examination:

- Introduction + Wash Hands + Consent
- General Inspection:
 - Obese Body habitus
 - o Acanthosis Nigricans
 - Xanthelasma
 - o Fat Atrophy @ Insulin Injection Sites
 - Endocrine Facies (Cushing's, Acromegaly, PCOS)
 - o Pigmentation (Haemochromatosis)

Vital Signs:

- Tachycardia (if Dehydrated)
- Hypotension (if Dehydrated)
- o Tachypnoeic (If DKA)
- o Febrile (If Infection)
- Lower Extremities:
 - General Inspection:
 - Quadriceps Wasting
 - Fat Atrophy @ Insulin Injection Sites
 - PVD: Hair Loss + Shiny Skin + Oedema + Venous Ulcers
 - Arterial Ulcers
 - Neuropathic Ulcers
 - Charcot's Joint
 - Pes Cavus, Loss of Transverse Arch, Hammer Toes, Halux Valgus
 - Fungal Nail Infections
 - Infections/Cuts Between Toes
 - Palpation:
 - Muscle Wasting
 - Temperature
 - Perfusion (CRT & Pulses)
 - Neurological Examination Patient's Eyes Closed:
 - Soft Touch (Monofilament):
 - All 10 Areas of the foot
 - All Dermatomes of the Leg
 - Vibration:
 - Tuning Fork on Toes
 - Proprioception:
 - Big Toe
 - Pain:
 - All Dermatomes of Leg (But NOT the sole of foot)
 - Muscle Power:
 - All movements
 - Muscle Reflexes:
 - Patellar Tendon
 - Archilles Tendon
 - Babinski (Positive if Upgoing)(Normal = Downgoing)
 - Further Examinations & Tests:
 - Cardiovascular Examination
 - Respiratory Examination
 - Eye Exam + Fundoscopy
 - BSL + Urine Dipstick + HBA1CCandida Mouth Infections
 - Acetone Fetor
 - Carotid & Renal Bruits
 - Hepatomegaly (Fatty Liver/Haemochromatosis)

Hyperthyroid Focussed Examination:

- Introduction + Wash Hands + Consent
- General Inspection:
 - o Weight Loss
 - o Flushing
 - Sweating
 - Anxiety
 - Frightened Stare + Exophthalmos
 - o Goitre
 - Hoarseness

Vital Signs:

- o Tachycardia
- o Hyperthermia
- o Hypertension
- Hands:
 - o Hands Warm, Well Perfused, ↓CRT, Sweaty, Erythematous
 - Hyperthyroid Acropathy (Clubbing, Swelling & Redness of Fingers)
 - o Onycholysis/Plumber's Nails (Separation of Nails from Nailbed)
 - Hand Tremor
- Arms:
 - Proximal Myopathy (Weakness Abducting Arm)
- Face:
 - o (Standard check for: Conjunctival Pallor, Central Cyanosis, Peripheral Cyanosis)
 - Frightened Stare + Exophthalmos + LID LAG
 - o Bitemporal Hemianopsia (If Central Hyperthyroidism)
 - o Pemberton's Sign
 - Fundoscopy (hypertensive changes)
- Neck:
 - O Thyroid Examination:
 - General Inspection:
 - Thyroidectomy Scars
 - Goitre
 - Swallow Test
 - Palpation (From Behind):
 - Locate Thyroid (2cm below Laryngeal Prominence)
 - Palpate Size, Consistency, Nodules, Mobility, Thrills, Tenderness
 - Swallow test (Mobility)
 - Percuss:
 - Retrosternal goitre
 - Auscultate:
 - Thyroid Bruits
 - Cervical Lymphadenopathy:
 - Submental/Submandibular/Pre-Auricular/Post-Auricular/Occipital/Jugular Chain/Posterior Triangle)
- Chest:
 - o Gynaecomastia
- Abdomen:
 - Hepatojugular Reflux (Retrosternal Goitre)
- Legs:
 - o Pretibial Myxoedema
 - Proximal Myopathy
- Feet:
 - Warm, Well Perfused, ↓CRT, Erythema, Sweaty
- Thank Patient "That concludes my examination, now I'd like to run some tests"

Hypothyroid Focussed Examination:

- Introduction + Wash Hands + Consent
- General Inspection:
 - o Hypothyroid Facies (Apathetic, Puffy Eyes, Loss of Lateral Eyebrows, Thinning of Hair)
 - Obesity
 - o Oedema
 - Mental Slowness & ↓Affect

Vital Signs:

- o Bradycardia
- o Hypothermia
- Hypertension

- Hands:

- Cool, Poorly Perfused,
 \(\bullet \text{CRT, Peripheral Cyanosis, Dry} \)
- o Brittle nails
- Xanthomata
- o Palmar Crease Pallor + Koilonychia (Menorrhagia)
- Inverse Prayer Test for Carpal Tunnel

- Arms:

- Proximal Myopathy (Abduction Weakness)
- Hung Reflexes

- Face:

- o Conjunctival Pallor (Menorrhagia)
- o Central/Peripheral Cyanosis
- Loss of Lateral 1/3 of Eyebrow
- o Periorbital Myxoedema
- Xanthelasma
- Fundoscopy (Hypertensive Changes)

- Neck:

Thyroid Examination:

- General Inspection:
 - Thyroidectomy Scars
 - Goitre
 - Mobility (Swallow Test)

Palpation (From Behind):

- Locate Thyroid Gland (2cm Below Laryngeal Prominence)
- Goitre (Hyper/Hypo) Size, Consistency, Tenderness, Mobility, Thrill
- Swallow Test (Mobility)

Cervical lymphadenopathy:

- Submental/mandibular, Pre/Post-Auricular, Occipital, Jugular Chain, Post-Triangle
- Pemberton's Sign (Retrosternal Goitre)
- ↑JVP

- Chest:

- o Percuss for Retrosternal Goitre
- Pericardial Effusion (Soft Heart Sounds)
- o Plerual Effusion (Stony Dullness)

- Abdomen:

- o Abdominojugular Reflux (Retrosternal Goitre)
- Obesity

Legs:

- o Non-Pitting Oedema
- Proximal Myopathy (Squat)
- Hung Leg Reflexes

- Feet:

- Cool, Poorly Perfused, ↑CRT, Pale, Dry
- o Xanthomata
- Thank patient "that concludes my examination", I'll go organise further tests.

Cushing's Focussed Examination:

- Introduction + Wash hands + Consent
- General Inspection:
 - Central Adiposity
 - Obesity
 - Moon Facies
 - Buffalo hump
 - Striae
 - o Hirsutism
- Vital Signs:
 - o Hypertension
- Hands:
 - Warm & Well Perfused, Normal CRT
 - o Standard: No Palmar Crease Pallor
 - Xanthomata
- Arms:
 - Easy Bruising
 - o Poor Wound Healing
 - Proximal Myopathy (Ab/Adduction)
- Face:
 - o Characteristic Moon Facies
 - o Xanthelasma
 - o Fundoscopy (Hypertensive & Hyperglycaemic Changes)
 - o Bitemporal Hemaniopsia (if Pituitary Adenoma)
 - Mouth Infections
- Neck:
 - o Carotid Bruits (Hypercholesterolaemia)
 - o Acanthosis Nigricans
- Chest:
 - o Gynaecomastia
 - o Bony Tenderness (Osteoporosis)
- Abdomen:
 - Central Adiposity
 - o Striae
 - o Adrenal Masses
- Legs:
 - o Easy Bruising
 - o Poor Wound Healing
 - Proximal Myopathy (Squat)
- Feet:
 - o Tendon Xanthomata

Acromegaly Focussed Examination:

- Introduction + Wash Hands + Consent
- General Inspection:
 - o Acromegalic Facies Frontal Bossing, Prominent Jaw/Brow Ridge/Nose/Lips/Tongue
- Vital Signs:
 - Hypertension
- Hands:
 - Large Spade-Hands
 - Warm & Well Perfused, ↓CRT, Palmar Erythema, Sweaty-Greasy Hands
 - Thickened Skin
 - Xanthomata
 - Osteoarthritis (Heberton's Nodules, Bouchard's Nodules)
- Arms:
 - Proximal Myopathy (Ab/Adduction)
- Face:
 - o Acromegalic Facies Frontal Bossing, Prominent Jaw/Brow Ridge/Nose/Lips/Tongue
 - Xanthelasma
 - o Bitemporal Hemianopsia (Pituitary Adenoma)
 - Fundoscopy (Hypertensive Changes)
- Neck:
 - o Acanthosis Nigricans
 - Carotid Bruits (due to ↑cholesterol)
- Chest:
 - o Gynaecomastia
 - o Bony Tenderness (Ribs & Spine) due to Osteoarthritis
 - Molluscum Fibrosum in Axillae (Skin Tags)
 - o Hypertrophic Cardiomyopathy (Displaced Apex Beat, Murmurs & Signs of CCF)
- Abdomen:
 - Hepatomegaly
 - Splenomegaly
 - o Renal Enlargement
- Legs:
 - Proximal Myopathy (Squat)
- Feet:
 - Enlarged Feet
 - Warm, Well-Perfused, ↓CRT, Erythema, Sweaty
 - Tendon Xanthomata
- Thank patient "that concludes my examination", I'll go organise further tests.

Addison's Disease Focussed Examination:

- Introduction + Wash hands + Consent
- General Inspection:
 - Wasting (Weight Loss)
 - o Hyperpigmentation
 - o Obvious Fatigue
 - Mental Slowness
- Vital Signs:
 - o Hypotension (Hypovolaemia)
 - o Tachycardia (Hypovolaemia)
- Hands:
 - o Warm & Well Perfused, Normal CRT,
 - o Palmar Crease Pigmentation
- Arms:
 - Generalised Muscle Weakness
 - Muscle Wasting
- Face:
 - Wasting (thin face)
 - o Hyperpigmented + Pigmented Buccal Mucosae
 - o Dry Mucosae (Dehydration)
- Neck:
- Chest:
- Abdomen:
 - Adrenal Masses
- Legs:
 - o Generalised Muscle Weakness
 - Muscle Wasting
- Feet:
 - o Warm & Well Perfused, Normal CRT,

PCOS Focussed Examination:

- Introduction + Wash Hands + Consent
- General Inspection:
 - Hirsutism (Hair + Acne)
 - Receding Hairline
 - Obesity (Metabolic Syndrome)
 - (Not Pregnant[infertile])
- Vital Signs:
 - Hypertension
- Hands:
 - o Warm & Well Perfused
 - o No Palmar Crease Pallor
 - Hirsutism (Hairy Dorsum of Hands)
 - o Xanthomata
- Arms:
 - Hirsutism (个Hair)
- Face:
 - o Xanthelasma
 - o Fundoscopy (Diabetic & Hypertensive Retinopathy)
 - Hirsutism (Facial Hair & Acne)
 - o Deepening Voice
- Neck:
 - o Acanthosis Nigricans (Metabolic Syndrome)
 - Carotid Bruits (↑Cholesterol)
- Chest:
 - Hirsutism (Chest Hair)
- Abdomen:
 - Ovarian masses/Tenderness
 - PV Examination
 - o Central Adiposity (Metabolic Syndrome)
- Legs:
 - o Hirsutism (hair)
- Feet:
 - o Tendon Xanthomata

Full & Focussed GI Exams

Full GI/Abdo Exam:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Alertedness/Orientation
 - ↓ in Hepatic Encephalopathy (Ammonia)
 - ↓ in Uraemic Encephalopathy
 - Pain/Distress (Acute Abdomen, Appx, Pancrx, Cholecystx, Diverticx, B.Obstrucx, Perforation, etc)
 - o Body Habitus:
 - Obesity (Fatty liver, Diabetes, Ascites, GORD)
 - Cachexia (Malignancy, Malabsorption, Crohns/UC)
 - Colour:
 - Jaundice (Hepatitis, Cholelithiasis, Liver Failure, Cirrhosis, Haemolysis)
 - Pallor (Anaemia, Malignancy, Malabsorption, GI Bleeding)
 - Pigmentation (Haemochromatosis)
 - Bruising, Bleeding, Petechiae (Liver Failure, Haematological Malignancy)

Vital Signs:

- o Pulse:
 - Tachycardia (Anaemia, Blood Loss, Pain, Infection)
 - AF (Dilated Cardiomyopathy in Alcoholism)
- Blood Pressure:
 - Hypertension (Renal Failure, Pain)
 - Hypotension (Blood Loss, Shock)
 - Postural Hypotension (Anaemia)
- Respiratory Rate:
 - Tachypnoea (Pain, Anaemia)
- Temperature:
 - Fever (Infection)
- Hands:
 - Perfusion + CRT
 - Warm & Sweaty (Carcinoid) + (Hyperthyroid, Phaeox, Acromegaly)
 - Cool & Dry (Shock, Hypovolaemia)
 - Clubbing (Crohn's Disease & Ulcerative Colitis) + (Cardiac/Resp Disease & ↑Thyroid Acropathy)
 - Leukonychia & Muercke's Lines (Hypoalbuminaemia Liver Failure, Nephrotic Syndrome)
 - o Koilonychia (Iron Deficiency Blood Loss, GI Bleed, Malabsorption)
 - o Blue Lunulae (Wilson's Copper Disease)
 - o Palmar Crease Pallor + Pale Nails (Anaemia)
 - Palmar Erythema (个Oestrogen in Liver Disease)
 - Dupuytren's Contracture (Alcoholic Hepatitis/Cirrhosis)
 - Xanthomata (个Cholesterol Fatty Liver, Nephrotic Syndrome, Diabetes)
 - Hepatic Flap (Asterixis Hepatic Encephalopathy)
- Arms:
 - Bruising, Petechiae
 - Scratch Marks (Uraemic Pruritis)
 - o Uraemic Frost
 - o Acanthosis Nigricans in Axilla (GI Malignancy)
- Face:
 - Eyes:
 - Conjunctival Pallor (Anaemia)
 - Scleral Icteris (Jaundice)
 - Keyser Fleischer Rings (Wilson's Disease)
 - Iritis (Crohn's/Ulcerative Colitis)
 - Xanthelasma (↑Cholesterol Biliary Obstruction, PBC, Cirrhosis, Diabetes)

- Mouth:
 - Hydration
 - Parotid Gland Enlargement (Alcoholism)
 - Central/Peripheral Cyanosis
 - Mucosal Ulcers (Crohn's/UC)
 - Glossitis/Angular Stomatitis (Anaemia, Alcoholism B12, Malabsorption B12)
 - Peutz Jegher's Pigmentation
 - Fetor Hepaticus
 - Mucosal Petechiae
 - Leukoplakia (Spirits, Smoking, Sepsis, Syphilis, Shit teeth)

Neck:

Supraclavicular Lymph Nodes (Virchow's Node = GI/Lung Malignancy)

- Chest:

- O Gynaecomastia (↑Oestrogen Liver Failure)
- >3 Spider Naeivi (↑Oestrogen Liver Failure)

- Abdomen:

- Inspection:
 - Abdominal Distension (Ascites, Obstruction)
 - Scars
 - Visible Masses (Cancer, Hernias)
 - Visible Peristalsis (Obstruction)
 - Bruising, Petechiae (Liver Failure)
 - Cullen's & Grey Turner's Sign (Pancreatitis, Haemoperitoneum)
 - Caput Medusa (Portal HTN, Cirrhosis)
 - Striae
 - Vesicles (Shingles)

Palpation:

- Light Palpation Tenderness, Guarding, Rigidity, Rebound? (Peritonitis)
- Deep Palpation Masses?
- Hepatomegaly (Fatty Liver, Portal HTN, Hepatitis, Hepatocellular Carcinoma, Polycystic Liver)
 - Small Liver (Cirrhosis)
 - Pulsatile Liver (Tricuspid Regurg)
- Splenomegaly (Infection, Haem.Malignancy)
- Ballott Kidneys
- Aortic Aneurysm
- Para-Aortic Lymph Nodes (Malignancy, Infection)

Special Tests:

- Cholecystitis: Murphey's Sign
- Appendicitis: Rovsing's Sign, Pain @ Mcburney's Point, Psoas Sign, Obturator Sign.
- Pyelonephritis/Renal Stones: Murphey's Kidney Punch

Percussion:

- Ascites & Shifting Dullness (Portal HTN, Liver Failure, Renal Failure) + (Heart Failure)
- Percuss for Splenomegaly & Hepatomegaly

Auscultation:

- Bowel Sounds (Absent in Ileus)
- Renal Bruits
- + Deferred PR Exam for Cancer, Blood, Malena.

- Legs:

- Pitting Oedema (Liver Failure, Renal Failure)
- Bruising, Petechiae (Liver Failure)
- Varicosities (Portal Hypertension)

- Feet:

- o Perfusion & CRT
- o Xanthomata (个Cholesterol Biliary Obstruction, PBC, Cholelithiasis)
- Leukonychia & Muercke's Lines (Hypoalbuminaemia Liver Failure, Nephrotic Syndrome)
- Clubbing (Crohn's Disease & Ulcerative Colitis)

Full & Focussed Haematology Exams

Full Haematology Exam:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Wasting, Cachexia (Malignancy)
 - Mediterranian Origin & Frontal Bossing (Thallassaemias)
 - o African Origin (Sickle Cell Anaemias)
 - o Gross Pallor (Anaemia & All Haem Malignancies)
 - o Jaundice & Scratch Marks (Haemolytic Anaemia)
 - Cyanosis
 - o Facial Plethora (Polycythaemia, SVC obstruction from Lymphoma)
 - Bruising, Bleeding, Petechiae, Purpura (Thrombocytopaenia, Haemophilia & All Haem Malignancies)
 - Neck Swellings (Lymphoma & All Haem Malignancies)
 - o Abdominal Distension (Organomegaly due to Infection & All Haem Malignancies)

Vital Signs:

- Pulse:
 - Tachycardia (Infection, Anaemia)
- Blood Pressure:
 - Postural Hypotension (Anaemia)
- Respiratory Rate:
 - Tachypnoea (Anaemia)
- Temperature:
 - Fever (Malignancy, Infection)

Hands:

- Warm/Well Perfused + CRT
- o Palmar Crease Pallor (Anaemia)
- o Peripheral Cyanosis
- o Koilonychia (Spoon Nails) and Pale Nails (Iron Deficiency Anaemia)
- Palmar Erythema (Polycythaemia, Chronic Leukaemias)
- o Blue Lunulae (Wilson's Disease)
- o Digital Infarcts & Raynaud's (Rheumatoid, Multiple Myeloma)
- o Arthropathy (Rheumatoid, Connective Tissue Disease, Haemophilia)
- Gouty Tophi (↑Cell Turnover in Malignancy, Myeloproliferative Diseases & Hb Disorders)
- o Dupuytren's Contracture (B12 Deficiency, Alcoholism & Megaloblastic Anaemia)

- Arms:

- o Bruising, Petechiae, Purpura (Haemophilia, Thrombocytopaenia & All Haem Malignancies)
- Scratch Marks (Jaundice Haemolytic Anaemia)
- o Epitrochlear & Axillary Lymph Nodes (All Haem Malignancies)
 - Supraclavicular, Infraclavicular, Parasternal, Subpectoral, Subscapular, Central, Lateral

- Face:

- Conjunctival Pallor, Angular Stomatitis, Atrophic Glossitis (Anaemia)
- Scleral Icteris
- Central/Peripheral Cyanosis
- o Facial Plethora (Polycythaemia)
- Pemberton's Sign (SVC Obstruction due to Lymphoma)
- o Buccal Petechiae (Thrombocytopaenia, Haemophilia, Bleeding Disorders & All Haem Malignancies)
- o Candidal Mouth Infections (All Haem Malignancies)
- Gum Hypertrophy + Bleeding (AML Acute Myeloid Leukaemias)
- Gum Hypertrophy (Methotrexate Chemotherapy)
- Enlarged Tonsils (MALT Lymphoma)
- Wasting (All Haem Malignancies)

- Neck:

- Cervical Lymph Nodes (Submenta/Submandibular/Pre/Post-Auricular/Occipital/Jugular/Post-Triangl)
 (In All Haem Malignancies)
 - Firm, Non-Tender, Immobile = Malignancy
 - Tender, Mobile = Infection
 - Site
 - Size (>1cm)
 - Consistency (Hard Carcinoma; Rubbery Lymphoma)
 - Tenderness (Infection)
 - Mobility (Fixed if Malignant)
- Neck Swellings/Masses
- **Check for Dysphagia/Odynophagia (Plummer Vinson Oesophageal Web from Iron def. Anaemia)
- Thyroid Examination (As Hypothyroidism can → menorrhagia)
- o BCC/SCCs from Immunosuppression (Chemotherapy)
- Radiotherapy Tattoos

Chest:

- Bruising, Petechiae, Purpura (Bleeding Disorders, Haemophilia, Thrombocytopaenia & All Haem Malignancies)
- Chest Infections (Immunosuppression)
- Systolic Flow Murmur (Severe Anaemia)
- o ***Bony Tenderness (ALL Haematological Malignancies) Ribs, Clavicles, Spine, Hips.

- Abdomen:

- Bruising, Petechiae, Purpura (Bleeding Disorders, Haemophilia, Thrombocytopaenia & All Haem Malignancies)
- Hepatomegaly, Splenomegaly (All Haem Malignancies)
- o Para-Aortic Lymph Nodes
- Ascites
- Per Rectal Examination Blood on Stool
- o Palpate Kidneys (Signs of Renal Failure → Anaemia of Chronic Disease)

Inguinal:

- o Inguinal Lymph Nodes (All Haem Malignancies)
- Testicular Masses in Children (ALL Acute Lymphoblastic Leukaemia)
- DRE (Lymphoma)

- Legs:

- Bruising, Petechiae, Purpura (Bleeding Disorders, Haemophilia, Thrombocytopaenia & All Haem Malignancies)
- Scratch Marks (Haemolytic Jaundice)

- Feet:

- Peripheral Perfusion & CRT
- o Koilonychia & Pale Nails (Iron Deficiency Anaemia)
- Sole Erythema (Polycythaemia)
- o Gouty Tophi (↑Cell Turnover in Myeloproliferative Diseases & Hb Disorders)
- Thank patient "that concludes my examination", I'll go organise further tests.

Focussed Anaemia Examination:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Alert & Oriented
 - o Racial Origin (African = Sickle Cell Anaemia; Mediterranean = Thallassemia)
 - o Gross Pallor (Anaemia), Jaundice (Haemolytic Anaemia), or Cyanosis.
 - Scratch Marks (Jaundice from Haemolytic Anaemia)
 - Bruising, Petechiae, Purpura (Thrombocytopaenia any Haem Malignancies)

Vital Signs:

- o Pulse:
 - Tachycardia
- Blood Pressure:
 - Postural Hypotension
- Respiratory Rate:
 - Tachypnoea
- Temperature:
 - Normal

Hands:

- Warm & Well Perfused + CRT
- o Koilonychia (Iron Deficiency Anaemia)
- o Pale Nails (General Anaemia)
- Leukonychia (Chronic Kidney Disease → Hypoalbuminaemia)
- o Palmar Crease Pallor
- o Dupuytren's Contracture (Megaloblastic Anaemia from Alcoholism)

- Arms:

- \circ Bruising/Petechiae/Purpura (Thrombocytopaenia due to Myelosuppression which also \Rightarrow Anaemia)
- Scratch Marks (Haemolytic Jaundice → Anaemia)

- Face:

- Conjunctival Pallor
- Scleral Icteris (Haemolytic)
- o Central/Peripheral Cyanosis
- o Angular Stomatitis (General Anaemia)
- Atrophic Glossitis (General Anaemia)
- Gum Bleeding (AML → As a cause of Iron Deficiency Anaemia)
- o Buccal Petechiae/Purpura (Thrombocytopaenia due to Myelosuppression which also → Anaemia)

- Neck:

- Cervical Lymphadenopathy (Because All Haem Malignancies cause Anaemia)
- **Check for Dysphagia/Odynophagia (Plummer Vinson Oesophageal Web from Iron def. Anaemia)
- Thyroid Examination (As Hypothyroidism can → menorrhagia)

Chest:

- Bony Tenderness (All Haem Malignancies)
- Systolic Flow Murmurs (hyperdynamic circulation)

Abdomen:

- Cullen's/Grey Turner's Signs of Haemoperitoneum (Haemorrhagic Anaemia)
- Tenderness (Peptic Ulcer Disease, Crohns, Ulcerative Colitis)
- Hepatomegaly & Splenomegaly (All Haem Malignancies cause Anaemia)
- Per Rectal Examination Blood on Stool
- o Palpate Kidneys (Signs of Renal Failure → Anaemia of Chronic Disease)

Legs:

o Peripheral Perfusion

- Feet:

- Peripheral Perfusion + CRT
- Koilonychia (Iron def Anaemia)
- o Pale Nails (General Anaemia)
- Thank patient "that concludes my examination", I'll go organise further tests.

Focussed Leukaemia Examination:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - o Alert & Orientated?
 - Wasting, Weight Loss
 - Gross Pallor (Marrow Overcrowding All Haem Malignancies)
 - Lethargy
 - Obvious masses (Neck/Abdomen)
 - Bruising, Bleeding, Petechiae, Purpura (Thrombocytopaenia All Haem Malignancies)

Vital Signs:

- o Pulse:
 - Normal
 - Tachycardia (If Anaemia)
- Blood Pressure:
 - Normal
 - Postural Hypotension (if Anaemia)
- Respiratory Rate:
 - Normal
 - Tachypnoea (If Anaemia)
- Temperature:
 - Febrile (All Haem Malignancies, Infection)
- Hands:
 - Peripheral Perfusion + CRT
 - Pale Nails & Palmar Crease Pallor (Marrow Overcrowding Anaemia)
 - Palmar Erythema (Chronic Leukaemias)
 - Gouty Tophi (High Turnover in Myeloproliferative)
- Arms:
 - o Bruising, Petechiae, Purpura (Marrow Overcrowding Thrombocytopaemia)
 - Epitrochlear & Axillary Lymp Nodes (All Haem Malignancies)
 - Supraclavicular, Infraclavicular, Parasternal, Subpectoral, Subscapular, Central, Lateral
- Face:
 - o Gross/Conjunctival Pallor (Marrow Overcrowding Anaemia)
 - o Central/Peripheral Cyanosis
 - o Gum Hypertrophy & Bleeding (Acute Myeloid Leukaemia)
 - Gum Hypertrophy (Methotrexate Side Effect)
 - o Candidal Mouth Infections (Neutropaenia All Haem Malignancies)
- Neck:
 - Cervical Lymphadenopathy (All Haem Malignancies)
 - Meningism (Due to CNS Infiltration esp. ALL)
- Chest:
 - o Bruising, Petechiae, Purpura (Thrombocytopaenia)
 - Bony Tenderness (Bony Infiltration All Haem Malignancies)
 - Chest Infections (Immunocompromise From Chemo or Neutropaenia)
- Abdomen:
 - o Bruising, Petechiae, Purpura (Thrombocytopaenia All Haem Malignancies)
 - o Distension
 - o Hepatomegaly, Splenomegaly (All Haem Malignancies)
 - o Para-Aortic Lymph Nodes
- Legs:
 - o Inguinal lymph Nodes
 - o Testicular Masses (Acute Lymphoblastic Leukaemia)
 - o Bruising, Petechiae, Purpura (Thrombocytopaenia All Haem Malignancies)
- Feet:
 - Peripheral Perfusion + CRT
 - o Pale Nails (Anaemia)
- Thank patient "that concludes my examination", I'll go organise further tests.

Focussed Lymphoma Examination:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Alert & Orientated
 - Wasting, Weight Loss
 - Neck Swellings
 - Facial Plethora (SVC Obstruction)
 - Gross Pallor (Marrow Infiltration)
 - Bruising, Petechiae, Purpura (Marrow Infiltration)

Vital Signs:

- o Pulse:
 - Normal
 - Tachycardia (if Anaemia due to BM Infiltration)
- Blood Pressure:
 - Normal
 - Postural Hypotension (if Anaemia due to BM Infiltration)
- Respiratory Rate:
 - Normal
 - Tachypnoea (If Anaemia due to BM Infiltration)
- o Temperature:
 - Fever
- Hands:
 - o Peripheral Perfusion + CRT
 - Peripheral Cyanosis
 - Palmar Crease Pallor (Anaemia of BM Infiltration)
 - Pale Nails (Anaemia of BM Infiltration)
 - Scratch Marks (Pruritis of Lymphoma)
- Arms:
 - Epitrochlear Lymph Nodes (All Haem Malignancies)
 - Axillary Lymph Nodes (Supra/Infraclavicular/Parasternal/Pectoral/Subscapular/Central/Lateral)
 - *Painful
- Face:
 - o Conjunctival Pallor (Anaemia of BM Infiltration)
 - Scleral Icteris
 - Wasting
 - Central/Peripheral Cyanosis
 - Enlarged Tonsils (MALT Lymphoma)
 - Candidal Mouth Infections (Immunocompromise All Haem Malignancies)
- Neck:
 - Painful Cervical Lymphadenopathy (All Areas)
- Chest:
 - Chest Infections (Immunocompromise All Haem Malignancies)
 - Systolic Flow Murmurs (if Anaemia of BM Infiltration)
 - Bony Tenderness (Bony Infiltration All Haem Malignancies)
- Abdomen:
 - Hepatomegaly (All Haem Malignancies)
 - Splenomegaly (All Haem Malignancies)
 - o Para-Aortic Lymphadenopathy
 - o Abdominal Masses (MALT Lymphoma)
 - o Bruising, Petechiae, Purpura (Thrombocytopaenia of BM Infiltration)
- Legs:
 - Bruising, Petechiae, Purpura (Thrombocytopaenia of BM Infiltration)
- Feet:
 - Peripheral Perfusion + CRT
 - o Fungal Nail Infections (Pancytopaenia of BM Infiltration)
- Thank patient "that concludes my examination", I'll go organise further tests.

Focussed Multiple Myeloma Examination:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Wasting, Weight Loss
 - o Pallor (Anaemia of BM Infiltration)
 - o Bruising, Petechiae, Purpura (Thrombocytopaenia of BM Infiltration)
 - Abdominal Masses (Hepatomegaly +/- Splenomegaly)
- Vital Signs:
 - o Pulse:
 - Tachycardia (Anaemia of BM Inifiltration)
 - Blood Pressure:
 - Postural Hypotension (Anaemia of BM Inifiltration)
 - Respiratory Rate:
 - Tachypnoea (Anaemia of BM Inifiltration)
 - Temperature:
 - Fever (Due to Infection/Malignancy)
- Hands:
 - Peripheral Perfusion + CRT
 - Raynaud's Phenomenon & Digital Infarcts (Blood Hyperviscosity)
 - o Palmar Crease Pallor & Pale Nails (Anaemia of BM Inifiltration)
- Arms:
 - o Bruising, Petechia, Purpura (BM Infiltration → Thrombocytopaenia)
 - o Epitrochlear Lymphadenopathy (All Haem Malignancies)
 - Axillary Lymphadenopathy (All Haem Malignancies)
- Face:
 - Conjunctival Pallor
 - o No Central or Peripheral Cyanosis
 - o Mucosal Candida Infections (Immunocompromise & Neutropaenia)
- Neck:
 - Cervical Lymphadenopathy (All Haem Malignancies)
- Chest:
 - o BONY TENDERNESS (Especially in Ribs & Lumbar Spine)
 - o Bruising, Petechiae, Purpura (BM infiltration → Thrombocytopaenia)
- Abdomen:
 - o Bruising, Petechiae, Purpura (BM infiltration → Thrombocytopaenia)
 - Massive Hepatomegaly +/- Splenomegaly
 - Signs of Renal Failure (Due to Ig-Deposition in Kidneys) → Ascites, Uraemic Fetor, etc
- Legs:
 - Peripheral Neuropathy (Due to Spinal Cord Compression)
 - Bruising, Petechiae, Purpura (BM infiltration → Thrombocytopaenia)
 - Oedema (If Renal Failure)
- Feet:
 - Peripheral Perfusion + CRT
 - Peripheral Neuropathy (Due to Spinal Cord Compression)
 - o Fungal Nail Infections (Immunocompromise)
- Thank patient "that concludes my examination", I'll go organise further tests.

Full & Focussed Head & Neck Exams

Eye Examination:

- Introduction, Wash Hands, Consent,
- General Inspection of Patient:
 - o Guide Dog
 - Walking Aids
 - Visual Aids/Glasses/Eye Patch
- Vital Signs:
 - o Pulse:
 - Particularly Irregularity (AF can → TIAs → Transient Visual Loss "Amaurosis Fugax")
 - Blood Pressure:
 - Particularly Hypetension (Hypertensive Retinopathy)
 - Respiratory Rate:
 - Temperature:
 - Fever in Infection
- Eye Examination:
 - Visual Acuity:
 - Snellens Charts
 - Unilateral Corrected + Bilateral Corrected
 - If Poor Visual Acuity Use a Pinhole to see if it is a REFRACTIVE ERROR?
 - Blind Spot (Enlarged in Macular Degeneration or Papilloedema)
 - Colour Vision:
 - Ischihara Charts (Colour Blindness)
 - Visual Inspection:
 - Eyelids:
 - Lid Retraction (Graves Hyperthyroid)
 - Lid lag (Graves Hyperthyroid)
 - Ptosis (Facial Nerve Palsy, Horner's Syndrome)
 - Periorbital Oedema (Nephrotic Syndrome, Hashimoto Hypothyroidism, Allergies)
 - Xanthelasma (Liver Disease, Diabetes, CVD, Cushing's, Acromegaly, Hypothyroidism)
 - Skin Lesions (SCCs, BCCs)
 - Eyelashes (Trachoma)
 - Eyeball:
 - Exophthalmos/Proptosis (Grave's Hyperthyroid, Leukaemias, Head Injury, Cushing's)
 - Enophthalmos (Horner's Syndrome, Dehydration)
 - Conjunctiva:
 - Conjunctival Pallor (Anaemia)
 - Scleral Icteris (Liver Disease)
 - Subconjunctival Haemorrhages (Extreme Coughing)
 - Conjunctivitis (Inflammation + Pus)
 - Iris, Cornea & Lens:
 - Arcus Senilis (Sign of CVD Risk factors)
 - Copper Ring around the Iris (Wilson's Disease)
 - Horner's Syndrome (Unilateral Miosis [pinpoint pupils])
 - Band Keratopathy (Hypercalcaemia, Hyperparathyroidism, Renal Failure)
 - Cataracts (Diabetes, Hypertension, Iodine Deficiency :. Hypothyroidism)
 - Corneal Ulceration (Herpes, Trachoma)
 - Pus/Blood in Anterior Chamber
 - Pupil Reactivity To Light:
 - Pupil Size (normally 2.5mm-3.5mm)
 - Direct Response (If absent = Afferent OR Efferent Nerve Lesion in THAT Eye)
 - Consensual Response (If absent = Efferent Nerve Lesion in THAT Eye)
 - Marcus-Gunn Pupil (Swinging Torch Test both pupils should stay the same after a few oscillations due to the Consensual Response) (If one pupil dilates whilst the torch is on the other eye, then that is a Marcus-Gunn Pupil)

Visual Fields (Remove Glasses & in Confrontation Position + Patient covers one eye):

- Betemporal Hemianopsia = Optic chiasm compression (Pituitary Adenoma)
- Homonymous Hemianopsia = Optic Radiation Lesion
- Unilateral Hemianopsia = Optic Nerve Lesion
- + Blind Spot (If enlarged May = Macular Degeneration, or Papilloedema)

Extraoccular Movements:

- Occulomotor = Superior Rectus, Medial Rectus, Inferior Rectus, Inferior Oblique
- Trochlear = Superior Oblique (Down & Out) :. In III-Nerve Palsy, eye faces Down & Out.
- Abducens = Lateral Rectus
- + Nystagmus = Points to the side of a Cerebellar Lesion.

Fundoscopy:

- Papilloedema
- Macular Degeneration
- Diabetic Retinopathy
- Hypertensive Retinopathy
- Roth's Spots in Infective Ednocarditis.

"Thankyou, that concludes my Examination"

Ear, Nose & Throat Examination:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Hair distribution (PCOS, Hypothyroidism)
 - Hair Infestations (nits, lice)
 - Oily, sweaty hair (Hyperthyroidism, Acromegaly)
 - Thin, Dry Hair (Hypothyroidism)
 - Scars
 - o Skull Deformities (Injuries, Congenital, Cleft Lip)
 - High Arch Palate (Marfan's)
 - Skin lesions (SCCs, BCCs)
 - Skin Pigmentation (Addison's, Haemochromatosis, Acanthosis Nigricans in Diab/Cush/PCOS/Acr)
 - Skin Scaling (Psoriasis, Autoimmune Disorders)
 - Abnormal Facies (Cushing's, Acromegaly, Addison's, Graves Hyperthyroidism, Hashimoto Hypothyroidism, Downs Syndrome, Turner's Syndrome(Female).)
 - Facial Symmetry (Facial Nerve Palsies)
 - o Facial Muscle Fasciculations
 - Eye Inspection (Conjunctival Pallor, Scleral icteris, Conjunctivitis, Discharge, Periorbital Oedema)

Vital Signs:

- o Pulse:
 - Tachycardia (Infection)
 - Bradycardia (if 个ICP)
- o Blood Pressure:
 - Hypertension (if ↑ICP)
- Respiratory Rate:
 - Bradypnoea (if ↑ICP)
- Temperature:
 - Fever (Infection)

- Ears:

- External Inspection:
 - Redness (Infection)
 - Swelling (Gouty Tophi)
 - Scars
 - Lesions (SCC/BCC)
 - Discharge
- Palpation:
 - Tug Test (for External Ear Infection)
 - Cervical Lymphadenopathy (Infection, Malignancy)
- Otoscopy:
 - Explain to the patient that it may feel uncomfortable
 - Pull Pinna Back and Upward to straighten the canal
 - Examine the Left Ear with the Left hand holding the Otoscope (and vice versa)
 - Look for:
 - Inflammation of External Ear Canal (Otitis Externa)
 - Discharge, Blood, Pus, CSF
 - Light Reflex of Tympanic Membrane (Eardrum)
 - Inflammation of Eardrum (Otitis Media)
 - Bulging of Eardrum (Otitis Media)
 - Visible Malleus (Normal)
 - Identify Borders (Pars Flaccida, Pars Tensa, Umbo)
 - Sclerosis (Chronic Otitis Media)
 - Tympanic Membrane Rupture
 - Impaction by Ceremun (earwax)
- Hearing:
 - Whisper Test "69 & 100" Whilst distracting the other ear with your hand.
 - Weber's Test Lateralising? (Conductive Deafness)
 - Rine's Test Normally Air Conduction is better than bone conduction.

Nose:

- Visual Inspection:
 - Redness (Rosacea, SLE, Acne)
 - Enlargement (Rosacea, Acromegaly)
 - Skin Lesions (Comedones, BCCs, SCCs)
 - Scars, Deformities (Broken Nose)
 - Discharge, Pus, Blood (Epistaxis)
 - Nasal Deviation
 - Nasal Polyps (inflammatory from chronic URTI)
 - Septal deformities
 - Enlarged, Inflamed Turbinates (URTI)

Palpation:

- Tenderness
- Swelling
- Deformities
- Block Each nostril & Assess for Obstruction
- Sinuses:
 - Press/Percuss over Frontal Sinuses (Tenderness = Sinusitis/Congestion)
 - Press/Percuss over Maxillary Sinuses (Tenderness = Sinusitis/Congestion)
 - Transilluminate Maxillary Sinuses (Shine otoscope through Maxillae & observe illumination in the mouth)

Throat:

Visual Inspection:

- Hydration
- Central or Peripheral Cyanosis
- Mouth Ulcers (UC/Crohns/SCC/BCC)
- Leukoplakia/Erythroplakia (Smoking Precancerous)
- Buccal Petechiae (Leukaemias, Bleeding Disorders, DIC, Haemorrhagic Infections)
- Buccal Pigmentation (Addison's Disease)
- Angular Stomatitis (Microcytic OR Macrocytic Anaemias)
- Atrophic Glossitis (Microcytic OR Macrocytic Anaemias)
- Gum Hyperplasia (AML, Methotrexate)
- Bleeding Gums (AML)
- Dentition & Dead Teeth (CVS Risk Factor)
- High Arched Palate (Marfan's Syndrome)
- Inflamed, Enlarged Tonsils
- Tonsillar Exudate
- Inflamed Pharynx (URTI)
- "Say Ah" (Glossopharyngeal & Vagus Nerve Lesions)
- Note any Fetor/Bad Breath (Uraemic, Hepatic, Acetone)

Palpation:

- Bimanual Palpation for enlarged Parotid Gland (Alcoholism, Sialolithiasis)
- Feeling Tongue & Buccal Mucosa for Lumps/Tenderness/Ulcers
- + Cervical Lymph Nodes
- Thank patient "that concludes my examination", I'll go organise further tests.

Full & Focussed Musculoskeletal Exams

Musculoskeletal History:

- PC Injury/Pain/Stiffness/Movement Limitation.
- HxPC:
 - O Acute or Chronic problem?
 - O Mech of injury Utmost Importance!!
 - Problems experienced:
 - Pain Vs Tenderness. (+ Be mindful of referred pain)
 - NILDOCARF
 - Movement limitation
 - Pain:
 - Tendinopathy
 - Impingement
 - Sprain
 - o Labral
 - Mechanical Block:
 - Stiffness/Creakiness + Time of day & Duration
 - Labral
 - o Frozen shoulder
 - Instability (clicking/clunking)
 - Joint swelling
 - Night pain? (Lying on affected joint)
 - Eg. Rotator cuff
 - Eg. AC joint injury
 - Eg. Collateral Knee Ligaments
 - Eg. Bone Cancers
 - Associated Rheumatologic Symptoms:
 - Fever, Weakness, Faituge, Weight Loss, Conjunctivitis/Iritis.
 - Progression with time (Trending Better/worse/same)
- Pmh, Meds, Famhx, Sochx, Systems Review
- Red Flags? (Ie. Things that if you miss → mortality/morbidity)
 - Open fractures
 - o Neurovascular compromise
 - o Cauda equina syndrome
 - Infections (Joints/Bones)
 - Acute Compartment Syndrome
 - o Cancer
 - o Temporal arteritis (high risk in pts with PMR poly something rheumatica)
 - Serious/life-threatening conditions that present with sx mimicking msk pain (eg. MI)
- Yellow Flags Conditions 'masquerading' as msk conditions:
 - o Eg. Psychological depression & back pain.

GALS Screen:

- Introduction, Wash Hands, Consent,
- Adequate Exposure!!! (Remove Shirt, Pants & Shoes)
- Gait (Observe for Fluidity, Symmetry, Limp, Compensation, Foot Drop[L4,L5]):
 - o Walk to the other side of the room, Turn around, and walk back to me.

- Arms:

- Shoulder & Elbow:
 - Raise hands up to the ceiling, then down behind your head. Push your shoulders backwards.
 - Touch your fingers on your shoulders, and raise your elbows as high as you can.
 - Lock your elbows into your side, and turn your arms outward as far as you can. (Ext.Rotation)
 - Run your thumb up the middle of your back. (Internal Rotation)
 - Push your hands as far back behind you as you can. (Extension)
 - Touch your left thigh with your right hand (and Vice Versa) (Adduction)
 - Supinate & Pronate your Hands

Hands & Fingers:

- Splay your fingers wide + Resist me squeezing them.
- Fingers together + Resist me pulling them apart.
- Grip my fingers as hard as you can + Assess Grip Strength
- Make a fist
- Touch each of your fingers with your thumb.
- + Metacarpophalyngeal Sqeeze Test (For Tenderness)

- Legs:

- o 3x Half Squats (Patellofemoral Joint)
- o 1x Full Squat (Knee Joint Proper)
- Ankle Eversion & Inversion
- o Dorsiflexion & Plantarflexion
- Splay Toes & Scrunch Toes.

- Spine:

- (Feet shoulder-width apart)
- Observe for Lordosis, Kyphosis, Scholiosis.
- o Bend from Lumbar Spine and reach for your toes
- o Bend from Lumbar Spine and look at the ceiling
- o Bend Sideways & Slide your hand down your thigh
- Neck Flexion (Chin on chest)
- Neck Extension (look at ceiling)
- Lateral Neck Flexion (Ear on Shoulder)
- Neck Rotation (Look to the side)

Reporting on a GALS Screening. (WHAT YOU NEED TO DO IN THE EXAM)

- o G Normal/Abnormal + Comments on Findings
- A Normal/Abnormal + Comments on Findings
- L- Normal/Abnormal + Comments on Findings
- S- Normal/Abnormal + Comments on Findings
- (Eg. Abnormal Arm (limited abduction of the shoulder to ?degrees))
- "Thankyou that concludes my examination"

Focussed Joint Exam Algorighm (Shoulder or Knee):

- Look (Visual Inspection)
 - Symmetry? (Size, Shape, Position, Height)
 - Scars
 - o Redness
 - o Bruising
 - Lumps
 - o Atrophy
 - Swelling

Feel (Palpate Relevant Anatomy for Tenderness, Heat, Swelling, Crepitus):

- Objective Findings:
 - Tenderness
- Subjective Findings:
 - Warm (Inflammation, Trauma, Infection, Tumour)
 - Swelling (Effusion, Tumour)
 - Crepitus (Osteoarthritis, Tendinopathy, Fracture)
- Move (Active +/- Passive if Required):
 - o Symmetry?
 - Active Movement in All Planes:
 - Range of Movement
 - Fluidity
 - Pain with Movement
 - If a pt can't do something, ask them why? (Blockage/weakness/Neuro)
 - (Passive Only for Movements that were Limited)
- Measure (Range of Movement):
 - O Done at the same time as "Move"
 - Compare with opposite side (ballpark doesn't have to be objective)

+/- Special Tests:

- Shoulder:
 - Empy Can Test (Supraspinatus Tear)
 - Drop Arm Test (Supraspinatus Tear)
 - Hawkin's Kennedy Test (Impingement)
 - Apprehension & Relocation Test (Instability)
- Knee:
 - Lachman's Test (Anterior Cruciate Ligament)
 - Thessaley Test (Meniscal Tear)
 - Apley's Grind Test (Meniscal Tear)
 - Varus & Valgus Stress Tests (Collateral Ligament Tears)
 - Half Squats (For Patellofemoral Maltracking Syndrome)

Focussed Shoulder Examination:

- 1. EXPOSE THE PATIENT FULLY!!

- Look (Visual Inspection)
 - Symmetry? (Size, Shape, Position, Height)
 - Scars
 - Redness, Bruising
 - Lumps, Swelling
 - Atrophy

Feel (Palpate Relevant Anatomy for Tenderness, Heat, Swelling, Crepitus):

- Palpate BOTH joints (Say you'd like to examine the other side)
- Palpate Definite Anatomical Structures for Tenderness:
 - Sterno-clavicular Joint
 - Clavicle
 - Acromio-clavicular Joint
 - Gleno-humoral Joint Line
 - Spine of Scapula
 - Edges of the Scapula
- o Feel for Heat, Swelling, & Crepitus
- o Eg. "Non tender to firm palpation"
- Move (Active +/- Passive if Required):
 - o Symmetry?
 - Active Movement in All Planes:
 - Range of Movement
 - Fluidity
 - Pain with Movement
 - If a pt can't do something, ask them why? (Blockage/weakness/Neuro)
 - (Passive Only for Movements that were Limited)
 - Eg. "Symmetrical and full ROM in all planes"
- Measure (Range of Movement):
 - O Done at the same time as "Move"
 - Compare with opposite side (ballpark doesn't have to be objective)
 - "Limited active extension of I-elbow to 150deg"
- (Clinical Presentations Requiring Special Tests):
 - Tears Eg. Supraspinatus Tear:
 - Special Tests:
 - "Drop Arm Test" Passive abduction of pt's arm → let go and get them to lower arm as slow as possible. Arm Drops at around Parallel = Positive.
 - "Empty Can Test" Passive abduction of Pt's arm with full internal rotation (ie. Emptying can). Push down and get them to resist your movement. Pain &/or Weakness = Positive.
 - Impingement Eg. Of Subacromial Contents:
 - Subacromial contents get squashed between the humoral head and the acromion. (eg. Supraspinitis, Subacromial Bursa)
 - Special test:
 - "Hawkins test" Pain = Positive, No Pain = Negative
 - Passive Internal Rotation of Shoulder with elbow in 90deg and humerus at parallel to the ground.
 - Instability Eg. Anterior Instability of Shoulder (ie. Post dislocation)
 - Eg. Dislocation/Post Dislocation/Stretch of Anterior Capsule of the Shoulder
 - Special Test:
 - "Apprehension & Relocation Test" Apprehension (not pain) in 1. Less apprehension in 2. = Positive
 - 1. Patient lies on bed while you Abduct & Externally Rotate their arm to precipitate apprehension (Ie. High five position)
 - 2. Same thing, but with pressure on the anterior capsule. (This should be much more bearable for the patient.)

Focussed Knee Examination:

- 1. EXPOSE THE PATIENT FULLY!!

- Look (Visual Inspection)
 - Symmetry? (Size, Shape, Position)
 - Scars
 - Redness, Bruising
 - Lumps, Swelling
 - Atrophy/Wasting

Feel (Palpate Relevant Anatomy for Tenderness, Heat, Swelling, Crepitus):

- Palpate BOTH Knees (Say you'd like to examine the other side)
- Palpate Definite Anatomical Structures for Tenderness:
 - Quadriceps Tendon
 - Patella (+ Patella "Tap" test for Effusion)
 - Patella Tendon
 - Tibial Tuberosity
 - Joint Line
 - Collateral Ligament Attachments.
- o Feel for Heat, Swelling, & Crepitus
- o Eg. "Non tender to firm palpation"
- Move (Active +/- Passive if Required):
 - o Symmetry?
 - o 3x Half Squats (Patellofemoral Joint)
 - 1x Full Squat (Knee Joint Proper)
 - Range of Movement
 - Fluidity
 - Pain with Movement
 - o If a pt can't do something, ask them why? (Blockage/weakness/Neuro)
 - (Passive Only for Movements that were Limited)
 - Eg. "Symmetrical and full ROM in all planes"
- Measure (Range of Movement):
 - Done at the same time as "Move"
 - Compare with opposite side (ballpark doesn't have to be objective)
 - "Limited active extension of I-elbow to 150deg"
- (Clinical Presentations Requiring Special Tests):
 - Acute Knee pain:
 - Cruciate Ligament Tear ("went to change direction, felt something pop, and was swollen within hours" = ACL)
 - Lachman's Test Pt supine, examiner's knee under pt's knee, stabilise femur with one hand, move tibia ant-&-post firmly. Positive if displacement > other side.
 - Anterior Drawer (NB: Only really useful in an anaesthetised, paralysed pt. NB. A conscious pt will guard). Pt supine, knee bent to 90deg. Sit on pt's foot. With 2 hands apply anterior force to the tibial head. Positive if Anterior Displacement is > than other side.
 - Meniscal Tear
 - **Thessaly Test (For Meniscal Tear) Hold hands standing. Stand on 1 foot. Bend the weight-bearing leg 20°. Do the Twist. Pain = Positive. (NB: Pt must point to source of pain same place both times)
 - Collateral Ligament Sprains/Tears
 - Valgus & Varus Stress Tests –Pt supine, support knee from below, 30deg flexion & apply valgus & varus stresses. (Positive = Laxity/gaping.)
 - Patellofemoral Mal-Tracking Syndrome. Tracking of the Patella through it's groove isn't right; or groove isn't straight; or vastus medialis isn't working properly.
 - → Pain with stairs/squatting
 - Half squats Good indication of patella-femoral function

<u>Full & Focussed Neurological Exams</u> (Cranial Nerves, Cerebellar, Upper Limb Motor/Sensory, Lower Limb Motor/Sensory)

Start of Every Neuro Exam:

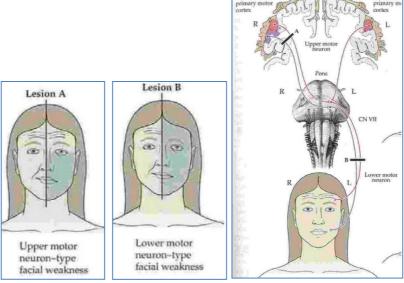
- Introduction + Wash Hands + Consent
- General Inspection:
 - o Altered Level of Consciousness?
 - o Patient Alert? Oriented to Person Place & Time?
 - o Facial Asymmetry?
 - o Evidence of Trauma?
 - o Fasciculations/Tremors?
 - o Muscle Wasting?
 - Speech Impediments (Dysphasia?/Dysarthria?/Dysphonia)
- Vital Signs:
 - o Pulse:
 - Bradycardia (Cushing's Triad of ↑ICP)
 - Blood Pressure:
 - Hypertension (Cushing's Triad of ↑ICP)
 - Respiratory Rate:
 - Cheyne Stokes Respiration (Cushing's Triad of ↑ICP)
 - Temperature:
 - Febrile if Meningitis/Encephalitis

Full Cranial Nerve Exam:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - o Altered Level of Consciousness?
 - Patient Alert? Oriented to Person Place & Time?
 - o Facial Asymmetry?
 - o Evidence of Trauma?
 - o Fasciculations/Tremors?
 - o Muscle Wasting?
 - Speech Impediments (Dysphasia?/Dysarthria?/Dysphonia)
 - o Ptosis?
 - o Inability to Close the Eye?
 - o Facial Muscle Wasting?
 - o Facial Sweating?
- Vital Signs "Ordinarily I'd get the vitals next, but in the interest of saving time today I will move on":
 - o Pulse:
 - Blood Pressure:
 - Respiratory Rate:
 - Temperature:
- I Olfactory:
 - "Have you noticed any change in smell or taste lately?"
- II Optic:
 - "Have you noticed any changes in your vision lately?"
 - o Corrected Visual Acuity in Each Eye Separately, then both eyes. (Snellen's Chart)
 - Assess for Colour Blindness (Ischihara Charts)
 - o 6 Point Visual Field Testing (confrontation position. Use hat pin and cover ipsilateral eyes)
 - Pupil Response to Light (Direct & Consensual + Swinging Torch Test)
 - Fundoscopy (Cataracts/Diabetic Retinopathy/Hypertensive Retinopathy)
- III Occulomotor, IV Trochlear & VI Abducens:
 - "Keeping your head still, follow this hat pin with your eyes"
 - o "Let me know if at any time you begin to see double"
 - Do the 6-speed gearbox positions
 - Asymmetrical Movement of the Eyes
 - O Nystagmus (NB: This is a sign of Cerebellar Pathology and always points to the side of the lesion)
 - o Occulomotor: Superior Rectus, Medial Rectus, Inferior Rectus, Inferior Oblique
 - o **Trochlear:** Superior Oblique
 - o **Abducens:** Lateral Rectus
- V Trigeminal:
 - "I'm going to be testing your facial sensation now"
 - o "First I'm going to test your "Sharp" (Pain) sensation, and this is what it feels like (on sternum)"
 - Pain: Ophthalmic Division, Maxillary Division, Mandibular Division
 - "next i'm going to test your "light touch" sensation, and this is what it feels like (on sternum)"
 - Light Touch (Cotton Wool): Ophthalmic Division, Maxillary Division, Mandibular Division.
 - "Ok now look straight ahead with your eyes wide open thankyou"
 - Corneal Reflex (Cotton wool): touch rolled cotton wool onto the corneas from the sides
 - "Next I'm going to test the motor function of the trigeminal nerve"
 - "Clench your jaw please"
 → Feel the Masseter Muscle
 - "Open your jaw and resist me closing it" → Pterygoids
 - "Just open your jaw halfway and relax, and I'm going to tap it with this" → Jaw jerk reflex

VII – Facial Nerve:

- "Wrinkle your forehead and don't let me flatten it"
- "Close your eyes and don't let me open them"
- o "Smile"
- o "Puff out your cheeks and don't let me squash them"
- (NB: UMN Lesions you lose the Lower Quadrant of the face on the Contralateral Side)
- o (NB: LMN Lesions you lose the Whole Half of the face on the Ipsilateral Side)



VIII – Vestibulocochlear Nerve:

- "Next I'm going to test your hearing and balance"
- o Romberg's Test ("Stand feet together and close your eyes")
- Weber's Test ("Tell me if you hear the sound more in one ear, or is it equal in both?") Comment on lateralisation. If it lateralises to one ear, then there is CONDUCTIVE DEAFNESS in that ear.
- Rinne's Test ("Tell me when you cannot hear the sound any more") then move the blades close to the ear canal "Can you hear it now?"
- **Whisper Test** ("No repeat what I whisper" 69, 100) Whilst distracting the other ear with rubbing fingers.

IX – Glossopharyngeal & X – Vagus:

- "Open your mouth and say AH"
 - Look for asymmetrical elevation of the Uvula.
- Mention that you'd also do the gag reflex.
- "Can you say your name please" Assess for Hoarseness
- "Can you cough please" Assess for bovine cough.

XI – Accessory Nerve:

- o "Turn your head to the side and resist me moving it" (Contralateral Sternocleidomastoids)
- "Shrug your shoulders and resist me pushing them down" (Trapezius)

XII – Hypoglossal:

- "Poke your tonge out as far as you can"
- Assess for Asymmetry (The tongue will point to the side of the lesion)

"Thankyou that concludes my examination"

Focussed Cerebellar Examination:

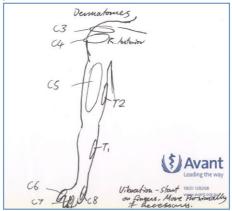
- Introduction + Wash Hands + Consent
- General Inspection:
 - o Patient Alert & Orientated?
 - o Tremor? Fasciculations
 - o Wasting?
 - o Evidence of Head Injury?
- Speech:
 - Say "British Constitution" (Listen for Dysphasia, Dysarthria, Dysphonia)
- Horizontal Nystagmus:
 - Oscillations of the eyeball when looking from one side to the other.
 - o NB: Nystagmus always points to the side of the cerebellar lesion.
- Standing Coordination:
 - o Romberg's Test "Stand with feet together and close your eyes for me" SUPPORT THE PATIENT:
 - Loss of balance with eyes closed = Proprioceptive Dysfunction (Dorsal Column)
 - Loss of balance with eyes open = Cerebellar Dysfunction
 - O GAIT:
 - Walk Normally (Note any wide-based gait = Cerebellar Dysfunction)
 - Heel to toe Walking:
 - Inability to do this = Cerebellar Dysfunction
 - Pronator Drift "Can you open your palms, raise your arms out to the front and close your eyes":
 - Upward Drift = Cerebellar Dysfunction
 - **Downward Drift** = Pyramidal
 - Rebound "Can you raise your arms out to the front as quick as you can and then stop them":
 - Rebound = Cerebellar Dysfunction
 - Disdiodochokinesis:
 - "Clap your hands like this as fast as you can"
 - Finger nose Test (Past Pointing):
 - Touch your nose
 - Touch my finger
 - Etc.
- Supine Coordination:
 - O Heel-Shin Test:
 - "Place your heel on your knee and slide it down your shin...then lift off...then back to knee & repeat."
 - Finger Toe Test (Past Pointing):
 - Touch My finger
 - Tough the bed
 - Etc.
 - Disdiodochokinesis:
 - "Tap my hands with your feet alternating as fast as you can."
 - Clonus:
 - Flex the knee, externally rotate the hip, and Rapidly Dorsiflex (Sustained Rhythmic Contraction = Clonus = Cerebellar Dysfunction)
- Truncal Ataxia:
 - "Have a seat...Cross your arms...now stand up without using your hands"

"Thankyou that concludes my examination"

Focussed Upper Limb Neurological Examination:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - "Can you please take your shirt off"
 - o "Patient appears alert and oriented, and in no apparent pain or distress"
 - o Wasting (LMN Lesion)?
 - Tremors (Parkinsons/Benign)? Fasciculations (LMN Lesion)?
 - Scars? Deformities?
 - o Bruising? Injury?
 - o Asymmetry?
 - "Are you left or right handed?"
- Vital Signs "Ordinarily I'd get the vitals next, but in the interest of saving time today I will move on":
 - o Pulse:
 - O Blood Pressure:
 - Respiratory Rate:
 - Temperature:
- Motor Function:
 - Muscle Bulk/Wasting of:
 - Intrinsic Hand Muscles
 - Forearm
 - Biceps/Triceps
 - Shoulders
 - o Tone Hyertonia (UMN Lesion), Hypotonia (LMN Lesion), Cogwh./Leadpipe Rigidity (Parkinson's):
 - Shoulder Abduction/Adduction
 - Shoulder Flextion/Extension
 - Elbow Flexion/Extension
 - Supination/Pronation
 - Wrist Flexion/Extension
 - Finger Flexion/Extension
 - Power Graded 0→5 (0=None; 1=Flicker; 2=Gravity Limited; 3=Gravity Unlimited; 4=Fatigue; 5=Full)
 - Shoulder Abduction (C5, C6) "Pick up sticks"
 - Shoulder Adduction (C7, C8) "Lay them straight"
 - Elbow Flexion (C5, C6) "Pick up sticks"
 - Elbow Extension (C7, C8) "lay them straight"
 - Wrist Flexion (C6, C7) "Point to heaven"
 - Wrist Extension (C7, C8) "lay them straight"
 - Grip Strength (C7, C8) "masterbate"
 - Finger Adduction & Abduction (C8, T1)
 - Thumb Opposition (C8, T1)
 - o Reflexes Hyperreflexia (UMN Lesion); Hyporeflexia (LMN Lesion):
 - Triceps Reflex (C6, C7)
 - Biceps Reflex (C5, C6)
 - Brachioradialis (C5, C6)
 - Coordination/Cerebellar Function:
 - Pronator Drift "Can you open your palms, raise your arms out to the front and close your eyes" (Downward = Pyramidal; Upward = Cerebellar)
 - Rebound "Keep your hands there & your eyes closed, and don't let me move your arms"
 OR "Quickly raise your arms to the front and stop".
 - Disdiodochokinesis "Clap your hands like this as fast as you can"
 - Past-Pointing (Cerebellar Dysfunction) "Touch your nose, Touch my finger"

- Sensory Function (Standardise on Sternum first):
 - **OVER ALL DERMATOMES:**
 - C3 (Corporals Patch)
 - C4 (Corporals Patch)
 - C5 (Biceps)
 - C6 (Thumb)
 - C7 (Middle Finger)
 - C8 (Pinky)
 - T1 (Medial Forearm)
 - T2 (Medial Bicep)



- 1. Pain (Spinothalamic)
 - EYES CLOSED
 - (Temperature Not done)
- o 2. Vibration (Dorsal Column)
 - Start Distally → Move Proximally
- o 3. Proprioception (Dorsal Column)
 - EYES CLOSED
- 4. Light Touch (Both Pathways)
 - EYES CLOSED

"Thankyou that concludes my examination"

Focussed Lower Limb Neurological Examination:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Standing:
 - Muscle Wasting? (LMN)
 - Fasciculations? (LMN)
 - Scars? Deformities?
 - Injury?
 - Involuntary Movements?
 - GAIT "Can you walk to the other end of the room, turn round, and walk back". Look for:
 - Foot Drop L4 + L5 Lesion (Common Peroneal/Fibular Nerve Palsy)
 - Cannot Walk on Toes S1 Lesion.
 - Shuffling Gait (Parkinsons)
 - Wide Based Gait (Cerebellar)
 - Poor Heel-Toe Walking (Cerebellar)
 - Romberg's Test "Stand with feet together and close your eyes for me" SUPPORT THE PATIENT:
 - Loss of balance with eyes closed = Proprioceptive Dysfunction (Dorsal Column)
 - Loss of balance with eyes open = Cerebellar Dysfunction
- Motor Function On Examination Couch:
 - Muscle Bulk:
 - Feel for any wasting (LMN Lesion)
 - Tone (Hypertonia = UMN Lesion; Hypotonia = LMN Lesion; Cog/Leadpipe Rigidity = Parkinson's):
 - Hip Flexion
 - Knee Flexion & Extension
 - Ankle Flexion & Extension
 - Toe Flexion & Extension
 - Power:

•	Hip Flexion	(L2, 3, 4)	"Enforce the Law" (With Roundhouse Kick)
•	Hip Adduction	(L2, 3, 4)	"Enforce the Law" (With Roundhouse Kick)
•	Hip Abduction	(L2, 3, 4)	"Enforce the Law" (With Roundhouse Kick)
•	Hip Extension	(L5, S1) + (S2)	"Tense your bum"
			Warra 1

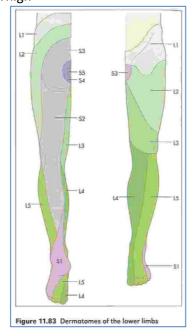
Knee Extension (L3, L4) "Kick the Ball"
Knee Flexion (L5, S1) "Kick your bum"
Dorsiflexion (L4, L5) "Walk on Fire"
Plantar Flexion (S1) "Find your son"

- Reflexes:
 - Patellar Tendon (L3, L4) "Kick the Ball"
 Archilles Tendon (S1) "Find your son"
 - Plantar Reflex/(Babinski's Positive if UMN Lesion)
- Coordination/Cerebellar Function:
 - Disdiodocokinesis:
 - "Tap your feet against my hands as quickly as possible"
 - Finger-Toe Test (Past Pointing Test):
 - "touch my finger, touch the bed, touch my finger"
 - Heel-Shin Test:
 - Place your heel on your knee and slide it down your shin, lift off, and place back on knee...Repeat.
 - + Test for CLONUS (Cerebellar Dysfunction)

- Sensation:

OVER ALL DERMATOMES – With EYES CLOSED:

- L1 Garter Band 1
- L2 Garter Band 2
- L3 Anterior Knee
- L4 Medial Calf
- L5 Lateral Calf
- S1 Lateral Foot (little toe)
- S2 Posterior Thigh



- o Pain
- Vibration
- o Proprioception
- Light Touch

- Special tests for Meningitis:

- o Kernig's Sign Neck pain on hip flexion & knee extension
- o Brudzinski's Sign Involuntary Hip Flexion & knee Extension on Neck Flexion
- o Neck Stiffness Pain on Neck Flexion

"Thankyou that concludes my examination"

Full & Focussed Renal Exams

Full Renal Exam:

- Introduction, Wash Hands, Consent,
- Expose Patient & General Inspection:
 - Alert & Orientated? (Uraemic Encephalopathy, UTI in Elderly)
 - Acute pain or distress (Renal Colic, Pyelonephritis)
 - Signs of Fluid Overload (Ascites, Peripheral Oedema)
 - Signs of Dehydration (Causing Pre-Renal Failure)
 - o Facial Oedema (Nephrotic Syndrome)
 - Obesity
 - Scars
 - In-Dwelling catheter
 - Uraemic Fetor/Tinge (Ammonia Smell from Hyperuricaemia)
 - o Easy bruising on Arms, Legs & Trunk

Vital Signs:

- Pulse:
 - Normal
 - Tachycardia (Infection, Hypovolaemia, Anaemia)
- Blood Pressure:
 - Hypertension (Nephritic, Fluid Overload, Polycythaemia, Polycystic Kidney)
 - Postural Hypotension (Anaemia, Hyponatraemia, Addisons, Diabetic Neuropathy)
- Respiratory Rate:
 - Normal
 - Tachypnoea (if Renal Acidosis)
 - Bradypnoea (if Renal Alkalosis)
- Temperature:
 - Normal
 - Fever (Infection, Malignancy)
- Hands:
 - Peripheral Perfusion + CRT
 - Mee's Lines [single horizontal bands] (Arsenic/Heavy metal Poisoning)
 - Muercke's Lines [paired horizontal bands] & Leukonychia (Hypoalbuminaemia due to Nephrotic Syndrome)
 - o Palmar Crease Pallor & Pale Nails (Anaemia, Nephritic Syndrome)
 - Palmar Crease Pigmentation (Addisons Disease → Hyponatraemia & Hypovolaemia)
 - o Xanthomata (Diabetes, Obesity, Metabolic Syndrome)
 - Gouty Tophi (Hyperuricaemia)
 - Vasculitic Changes (Eg. Digital Infarcts Sign of Autoimmune Glomerulonephritis)

- Arms:

- Uraemic Tinge/Uraemic Frost (Hyperuricaemia)
- Scratch Marks (Uraemia)
- AV-Fistulae (ESRD Dialysis)
- Scars
- Asterixis (Uraemic Encephalopathy)

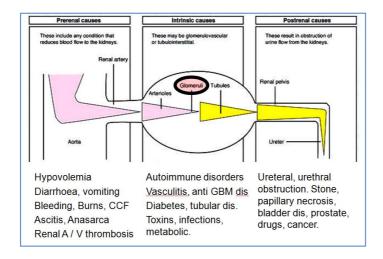
- Face:

- Butterfly Malar Rash of SLE (Cause of Renal Failure)
- o Periorbital Oedema (Nephrotic Syndrome)
- o Conjunctival Pallor (Anaemia, Nephritic Syndrome)
- o Central/Peripheral Cyanosis
- O Mouth Infections:
 - (Strep Pharyngitis can → PSGN Nephritic Syndrome)
 - (Also Immunocompromise from Nephrotic Syndrome)
 - Thrush (Immunocompromise from diabetes)
- Xanthelasma (Diabetes, Nephrotic Syndrome)
- Band Keratopathy (calcification of cornea due to 2º Hyperparathyroidism due to Vit D Deficiency)
- Dehydration (Nephrotic Syndrome)
- +Fundoscopy (Diabetic Retinopathy)
- o Gum Hyperplasia (Methotrexate Transplant Medication)

- Neck:
 - o Carotid Bruits (Hypercholesterolaemia, PVD, Diabetes)
 - Vas Cath (Haemodialysis)
 - o Parathyroidectomy Scars (due to 2° Hyperparathyroidism due to VitD Deficiency)
 - Acanthosis Nigricans (Diabetes, Metabolic Syndrome, Obesity)
- Chest:
 - CCF & Pulmonary Oedema (Due to Fluid Overload le. Nephrotic Syndrome, CKD, ESRD)
- Abdomen:
 - Inspection:
 - Distension (Ascites in Nephrotic, Nephritic, Peritoneal Dialysis)
 - Surgical Scars
 - Peritoneal Dialysis Port
 - Visible Masses
 - Palpation:
 - Renal masses (Polycystic Kidneys, Carcinoma)
 - Insulin Injection Sites
 - Polycystic Liver → Hepatomegaly (Polycystic Kidneys)
 - Abdominal Aorta (Aneurysm → Pre-Renal Failure)
 - Enlarged Bladder (Obstructive Uropathy)
 - Auscultation:
 - Renal Bruits (Renal Artery Stenosis, Pre-Renal Failure)
 - Bowel Sounds Present
 - o Percussion:
 - Shifting Dullness (Ascites Nephrotic, Nephritic, CKD)
- Back:
 - Surgical Scars
 - Costovertebral Angle Tenderness (Murphey's Kidney Punch) (Pyelonephritis/Stones)
 - Bony Tenderness
 - o Sacral Oedema
- Legs:
 - o Pitting Oedema (Nephrotic, Nephritic, CKD, Diabetes, PVD)
 - Scratches/Uraemic Frost (Hyperuricaemia)
- Feet:
 - Xanthomata (Hypercholesterolaemia)
 - Gouty Tophi (Hyperuricaemia)
 - o Mee's Lines (Arsenic/Heavy metal Poisoning)
 - Meurkhe's Lines & Leukonychia (Hypoalbuminaemia Nephrotic Syndrome)
 - o Peripheral Perfusion + CRT
 - Peripheral Pulses
 - (+ Diabetic Neuropathy & Foot Examination)
- + Urine Dipstick
 - o Blood (Nephritic, Pyelonephritis, Renal Stones)
 - Protein (Nephrotic, Nephritic)

Focussed Examinations:

- <u>Pre-Renal Failure Exam (Hypovolaemia, CCF, Ascites, Renal Artery Stenosis/Thrombosis):</u>
- Intra-Renal Failure (Nephrotics & Nephritics):
 - o Nephrotic (Less Serious) (Autoimmune [adults] or Post-URTI [child]):
 - Polyuria
 - Massive Proteinuria → Hypoalbuminaemia, Oedema & Periorbital Oedema
 - Compensative Hyperlipidaemia (Xanthomata/Xanthelasma)
 - Immunosuppression (Loss of IgG in Urine)
 - Hypercoaguability (Loss of AT3 in Urine)
 - No Haematuria
 - Nephritic (More Serious) (Post URTI [Adults] or Post Strep-Pharyngitis [Children]):
 - Anuria/Oliguria (↓GFR)
 - Modest Proteinuria (NB: NORMAL ALBUMIN) → Oedema
 - Anaemia (PainLESS Haematuria)
 - Hypertension
- Post-Renal Failure (Obstructive Uropathy):
- Renal Carcinoma



Full & Focussed Respiratory Exams

Full Respiratory Exam:

- Introduction, Wash Hands, Consent
- General Inspection:
 - Alert/Orientated
 - Pain/Distress
 - o Body Habitus:
 - Obesity (Blue Bloaters)
 - Cachexia (Pink Puffers, Malignancy)
 - Chest Deformities (Pectus Excavatum, Pectus Carinatum, Barrel Chest, Kyphosis, Lordosis)
 - Chest Scars

Respiratory Distress?

- Tripoding
- Pursed-Lip Breathing (Obstructive Lung Disease)
- Dyspnoea
- Audible Wheeze/Cough/Stridor (Obstructive Lung Disease)
- Intercostal Recession & Tracheal Tug (Restrictive Lung Disease)
- o Colour:
 - Cyanosis (Blue Bloaters)
 - Plethora (Pink Puffers)
 - Pallor (Anaemia)
- Vital Signs:
 - o Pulse:
 - Tachycardia (Anaemia, Cyanosis, Infection)
 - Blood Pressure:
 - Typically Normal
 - Postural Variation (Severe Anaemia)
 - Pulsus Paradoxus (Severe COPD, Asthma, Tamponade, Pneumothorax)
 - Respiratory Rate:
 - Tachypnoeic (Anaemia & All Lung Diseases)
 - Temperature:
 - Fever (Infection)
- Hands:
 - o Perfusion/CRT
 - Clubbing (Chronic Cyanosis)
 - o Pale Nails (Anaemia)
 - o Koilonychia (Iron Deficiency Anaemia)
 - Palmar Crease Pallor (Anaemia)
 - Tar Staining (Smoking)
 - Intrinsic Hand Muscle Wasting *(Pancoast Tumour)
 - Hand Muscle Weakness *(Pancoast Tumour)
 - Asterixis (CO2 Retention)
- Arms:
 - HPOA (Lung Tumour)
 - Pemberton's Sign *(SVC Obstruction due to Pancoast Tumour)
- Face:
 - o Plethora (Polycythaemia, SVC Obstruction)
 - Skin Lesions (SCC/BCCs)
 - o Conjunctival Pallor (Anaemia); Subconjunctival Haemorrhages (Severe Cough)
 - o Atrophic Glossitis/Angular Stomatitis (All Types of Anaemia)
 - Hydration
 - Central/Peripheral Cyanosis (All Lung Pathology)
 - Leukoplakia/Erythroplakia (Premalignancy from Smoking)
 - Tar-Stained Teeth (Smoking)
 - o HORNERS Syndrome (Sympathetic Nerve Palsy):
 - Unilateral Ptosis, Anhydrosis, Miosis (Pinpoint Pupil, Enophthalmos, Laryngeal Hoarseness

- Neck:

- Virchow's Node (Supraclavicular) (Malignancy)
- Cervical Lymphadenopathy (Infection, Malignancy)
- ↑JVP (SVC Obstruction Pancoast Tumour)(or Pulmonary Hypertension)
- Abdojugular Reflux (Negative if SVC Obstruction)
- Tracheal Deviation (Atelectasis, Pneumothorax)
- Tracheal Tug (Restrictive Lung Disease)

- Chest – ONCE FROM BEHIND, ONCE FROM THE BACK:

- Inspection:
 - Chest Deformities
 - Scars
 - Visualise Chest Expansion FROM BEHIND
- Palpation:
 - Chest Expansion >5cm = Normal (From Behind)
 - ↑Tactile Fremitis (Consolidation)
 - Hoover's Sign (Severe COPD, Emphysema, Asthma)
 - Chest Wall Tenderness (Malignancy)
- > Percussion:
 - Dullness = Consolidation
 - Stony Dullness = Pleural Effusion
 - Hyperresonant = COPD/Emphysema/Asthma/Pneumothorax
 - Lung Borders for Hyperinflation (6th rib anteriorly = normal) (COPD, Emphysema, Asthma)
- Auscultation:
 - ↑Vocal Resonance
 - Breath Sounds:
 - Vesicular = Normal
 - Bronchial = Consolidation
 - Pleuritic Rub = Pleuritis/Mesothelioma
 - Muffled = Pleural Effusion
 - Inspiratory Crepitations/Crackles = Pulmonary Oedema/Pneumonia
 - Expiratory Wheezes = Bronchial Disease
- (+ Mention Cardiovascular Examination)
- Abdomen:
 - o Percuss & Palpate for Liver Ptosis (Lung Hyperinflation)
- Legs:
 - Oedema
 - Calf Tenderness & Erythema (DVT→PE)
 - Signs of Venous Stasis Shiny Skin, Hair Loss, Venous Ulcers (DVT→PE)
- Feet:
 - Perfusion/CRT
 - Clubbing
 - o Koilonychia (Iron Deficiency Anaemia)
 - o Pale Nails (Anaemia)

Full & Focussed Rheumatological Exams

Full Rheumatological Exam:

- Introduction, Wash Hands, Consent,
- General Inspection:
 - Cushingoid Appearance (Steroids → Osteoporosis)
 - o Bird-like Facies (Scleroderma)
 - Weight Loss (Autoimmune, Scleroderma)
 - Butterfly Rash & Hair Loss (SLE)
- Vital Signs:
 - o Pulse:
 - Blood Pressure:
 - Respiratory Rate:
 - Temperature:
 - Fever (Rheumatoid, SLE)
- Hands:
 - Rheumatoid Arthritis:
 - Symmetrical PIP Synovitis (Red + Swollen + Tender)
 - Ulnar Deviation
 - Subluxation of MCP Joints
 - Z-Deformity of the Thumbs
 - Swan Neck Deformity of the Fingers
 - Vasculitic Splinters in the Fingers
 - Small Muscle Wasting
 - Palmar Tendon Crepitus
 - Carpal Tunnel (Inverse Prayer Test)
 - Reiter's Syndrome:
 - Syphilitic-like Lesions on Soles & Palms.
 - Osteoarthritis:
 - Heberton's Nodes (DIP Joints)
 - Bouchard's Nodes (PIP Joints)
 - o Gouty Arthritis:
 - Gouty Tophi in Hands
 - Scleroderma (CREST):
 - Calcinosis (Calcific Nodules in Skin of Fingers)
 - Raynaud's Phenomenon
 - (+ Esophageal dysmotility)
 - Sclerodactyly
 - Telangiectasias on the Fingers
- Arms:
 - o Rheumatoid Nodules (Rheumatoid Arthritis)
 - Gouty Tophi in Wrists & Elbows (Gout)
 - Psoriatic Plaques on Extensor Surfaces (Psoriasis & Psoriatic Arthritis)
- Face:
 - Rheumatoid Arthritis:
 - Dry Eyes (Sjogren's Syndrome)
 - Cataracts (Steroid Side Effect)
 - Conjunctival Pallor (Anaemia from NSAIDs → GI Bleeding)
 - Parotid Gland Enlargement (Sjogren's Syndrome)
 - Dryness of Mouth (Sjogren's Syndrome)
 - Mouth Ulcers & Gum Hypertrophy (Methotrexate Side Effects)
 - TMJ Joint Crepitus
 - Ankylosing Spondylitis:
 - Acute Iritis
 - Reiter's Syndrome:
 - Conjunctivitis
 - Iritis
 - Gout:
 - Gouty Tophi in the Ear

- Neck:
 - Cervical Lymphadenopathy (Rheumatoid, SLE)
- Chest:
 - Rheumatoid Arthritis:
 - Bony Tenderness (Particularly Spine)
 - Pleural Effusions
 - Pericardial Rub
 - Aortic Regurgitation Murmur
 - Ankylosing Spondylitis:
 - Lordosis + Kyphosis
 - Lumbar Tenderness
 - **Markedly ↓ROM of Spine
 - **↓Chest Expansion
 - Aortic Regurgitation Murmur
 - Sacroiliac Joint Tenderness
- Abdomen:
 - Rheumatoid & SLE:
 - **Splenomegaly
 - **Hepatomegaly
- Genitals:
 - Reiter's Syndrome:
 - Urethral Discharge
 - Balanitis
 - Prostatitis
- Legs:
 - Rheumatoid Arthritis:
 - Quadriceps Wasting
 - Knee Crepitus
 - Valgus (Bowing) Deformity of the Knee
 - Baker's Cysts (in Popliteal Fossa)
 - Peripheral Neuropathy (***Including Foot Drop***)
 - Ankylosing Spondylitis:
 - Achilles Tendonitis
 - Plantar Fasciitis
 - Gouty Arthritis:
 - Tophi in Big Toe (75% of cases)
 - Tophi in Achilles Tendon
- Feet:
 - O Rheumatoid:
 - Foot Drop (Common Fibular Nerve Palsy)
 - MTP Joints Swelling & Subluxation
 - Archilles Tendon Nodules
 - Claw Toes
 - Reiter's Syndrome:
 - Sausage Toes
 - Plantar Fasciitis
 - Achilles Tendonitis
 - Syphilitic-like Lesions on Soles & Palms.

NB: Limited Cutaneous Scleroderma = CREST Syndrome =

- Calcinosis (Calcific Skin Nodules in the Fingers)
- Raynaud's Phenomenon
- Esophageal Dysmotility → Dysphagia
- Sclerodactyly of fingers
- Telangiectasia on fingers

Preoperative Care:

1. Right Patient, Right Surgery, Right Side?

- a. "Time out" is done in the OR; X-References Pt info with Operation etc.
- **b.** Ask Pt what surgery?
- c. Mark the correct side.

2. Informed Consent (P570 oxford)

a. General Risks:

i. Anaesthetic Risks:

- 1. Atelectasis (Lung Collapse)
- 2. Pneumothorax (Lung Rupture)
- 3. Pneumonia
- 4. Aspiration
- 5. Mouth Injury
- 6. Sore Throat
- **7.** Awareness
- 8. Coma
- Malignant Hyperthermia (Rare, Inherited → Rhabdomyolysis & Fever → Usually Fatal)
- 10. Anaphylaxis (Anaesthetic Reaction)
- 11. Cardiac Arrest
- 12. Death

ii. Surgical Risks:

- 1. Bleeding
- 2. Transfusion (+/- Reaction)
- 3. Wound (Pain, Scars)
- 4. Infection
- **5.** DVT +/- PE
- 6. Disability
- 7. Death
- 8. Nerve Palsy

b. Specific Risks:

- i. Brain Damage (Neurosurgery)
- ii. Stroke (Carotid Endarterectomy)
- iii. Hypothyroidism (Thyroidectomy)
- iv. Hypoparathyroidism (Thyroidectomy)
- v. CBD Dissection (Cholecystectomy)
- vi. Ileus (Abdominal Surgery)
- vii. Adhesions (Abdominal Surgery)

c. Final Words:

- i. Consent is NOT a contract; It can be revoked at any time.
- ii. Risks are relative & depend on Pt Health & Procedure.
- iii. Anaesthetic Mortality ≈1/200,000 healthy pts.
- iv. Benefits should outweigh Risks

3. Anaesthetic Risk Assessment:

- a. Cardiorespiratory Function
- b. Co-Morbidities?
 - i. IHD
 - ii. Diabetes
 - iii. Asthma
 - iv. HTN
 - v. Epilepsy
 - vi. Jaundice
 - vii. Pregnant
- c. Allergies
- d. Smoker
- e. Previous Anaesthesia + any complications?
- f. FamHx of Malignant Hyperthermia

4. Drug Assessment:

- a. Pt on Steroid Therapy?
 - Pts on steroids have suppressed adrenals: need extra cortisol to cope with the stress of surgery. Give Hydrocortisone 50-100mg IV with premeds, then TDS for <3days.
- b. Pt on Anticoagulants?
 - i. Typically Aspirin is fine.
 - ii. Stop Warfarin >2-5days pre-op. (Emergency Reversal with Vitamin K +/- FFP.)
 - iii. Stop Heparin 6hrs pre-op. (Emergency Reversal with Protamine)
 - iv. (NB: When re-warfarinizing, DO NOT stop Heparin until INR is Therapeutic, as Warfarin is *Pro-Thrombotic* in the early stages)
 - v. (NB: Avoid Epidural, Spinal & Regional Blocks)
- c. Pt on OCP/HRT?
 - i. ↑Oestrogen = ↑ DVT Risk, :. Stop OCP 4wks Pre-Op (major/leg surgery); Resume 2wks Post-Op.
- 5. Pre-Operative Checklist:
 - a. Fast The Patient:
 - i. NBM <2hr Pre-Op
 - ii. Clear Fluids >2 Pre-Op
 - iii. No Solids >6hrs Pre-Op.
 - b. IV Cannula
 - c. Cathetarise (if Necessary)
 - d. Group & Hold/Crossmatch
 - i. G&H for Moderate Surgery (Eg. Mastectomy, Cholecystectomy)
 - ii. X-Match for Major Surgery (Eg. Caesarean=2U, Gastrectomy=4U, AAA=6U)
 - e. Usual Blood tests:
 - i. FBC (Hb)
 - ii. U&E (if Diabetic/on Diuretics/Burns Pt/Renal Dx/Liver Dx/Ileus/on TPN)
 - f. Specific Blood Tests:
 - i. LFT (if Jaundiced/Malignancy/ETOH Hx)
 - ii. Amylase (if Acute Abdomen)
 - iii. Drug Levels (eg. Digoxin/Lithium)
 - iv. TFT (if Thyroid Hx)
 - g. CXR (If Cardiac/Resp Hx, Possible Lung Mets, >65yrs)
 - **h. ECG** (If >55yrs/IHD/HTN/Other CVD)
 - i. Book any imaging

6. DVT Prophylaxis needed? (P580 oxford):

- a. Graduated Compression Stockings (NOT FOR Vasculopaths!!!)
- b. + Heparin 5000Units SC 2hr Pre-Op (OR LMWH/Enoxaparin 20mg/d SC); then BD Post-Op until Walking

7. Prophylactic Antibiotics:

<u>Procedure</u>	Likely Pathogen/s	Antibacterial Cover
General Surgery:		
 Appendectomy (Non Perfd) 	Enteric G-Negs	Cefalexin / Gentamicin
 Colorectal Surgery 	Enteric G-Negs + G-Pos Enterococcus,	Cefalexin + Metronidazole
	Anaerobes	
 Biliary/Duodenal Surgery 	Enteric G-Negs + G-Pos Cocci	Cefalexin + Metronidazole
Orthopaedic Surgery	Staphs + Streps + G-Neg Bacilli +	Cefalexin / Gentamicin
	Anaerobes	
Vascular Surgery	Staphs + G-Neg Bacilli + G-Pos	Cefalexin / Gentamicin /
	Enterococcus	Augmentin
Urologic Surgery	G-Neg Bacilli + G-Pos Enterococcus	Cefalexin / Ciprofloxacin
Gynaecologic Surgery:		
- C-Section	Staphs + Strep + G-Pos Enterococcus	Cefalexin / Gentamicin
- Hysterectomy	Enteric G-Negs + Group B Strep + G-Pos	Cefalexin / Gentamicin / Ampicillin
	Enterococcus	

	Egs:	Effective Antibiotics:
G. Positives ("-cocci")	Enterococcus Spp.	Penicillins (Benz-Pen-G, Amoxicillin, Ampicillin, Fluclox)
	Staphylococcus Spp.	- (NB: Augmentin for β-lactamase resistant bacteria =
	Streptococcus Spp.	Amoxil + Clavulonate)
		Cephalosporins (Ceftriaxione ³ , Cefipime ⁴ , Cepfalexin ⁴)
		[Vancomycin (For resistant G-Pos/ if Penicillin Allergy)]
G. Negatives	E. Coli	Aminoglycosides (Gentamicin, Tobramycin, Streptomycin)
	Neisseria Spp.	- (NB: Used with Penicillins/Cephs for Synergy)
	Pseudomonas	Tetracyclines (Tetracycline, Doxycycline)
	Haemophilus Spp.	Macrolides (Erythromycin, Azithromycin)
	Klebsiella Spp.	Quinolones (Ciprofloxacin, Norfloxacin)
	Enterobacter Spp.	Cephalosporins (Ceftriaxione ³ , Cefipime ⁴ , Cefalexin ⁴)
		[Benz-Pen-G (For Neisseria Gono/Mening)]
<u>Anaerobes</u>	Bacteroides Spp.	[Metronidazole (For Bacteroides)]
	Clostridium Spp.	[Vancomycin (For C.Diff)]
<u>Atypicals</u>	Mycoplasma	Tetracyclines (Tetracycline, Doxycycline)
	Legionella	Macrolides (Erythromycin, Azithromycin)

NB: Triple Therapy: -Ampicillin, Gentamicin, Metronidazole- give great 'Broad Cover'. (Remember by AGM – Annual General Meeting...If you want to be around next year, take these 3)

Sexual History

Intro + Consent

Presenting Complaint:

Any current symptoms? Unusual vaginal d/c or itching? Painful IC? Urinary complaints?
 Menstrual problems?

Relationship Status, Sexual Orientation:

- Are you in a relationship?
- DO you have a regular partner? Male or female?
- DO you partake in sexual activities with males, females or both?

How many partners?

- How many partners have you had in the last 12 months?
- Have you had sex with anyone different in the last 3 months
- DO you know your partners? friends?, random's?, what country are they from?

Monogamous/Promiscuous?

Safe Sex

- Do you use condoms? Effectively?
- When was your last unprotected sex?
- What type of sexual activities do you partake in?
- Sex with Prostitutes

History of STIs

• Have you had any STD's before?

When was your last Pap Smear?

Is there anything else you would like to add?

Follow up with OBGYN History ↓

OBGYN History

Intro + Consent

Presenting Complaint:

Any current symptoms? Unusual vaginal d/c or itching? Painful IC? Urinary complaints?
 Menstrual problems?

Date of Last Period -

- Was it normal?

Regularity? -

– Are your periods generally monthly (10-12 periods a year)?

Symptoms related to Periods? -

– Do you have excessive bleeding or cramping with menses?

Age of Menarche -

– How old were you when you started having periods?

Has Menopause Occurred? -

- How old were you when you stopped having periods? (menopause = 1 year since last menses)
- Any vaginal bleeding since menopause?

Possibility of Pregnancy? -

- Are you contracepting? Sexually active? New partner?
- Any chance you might be pregnant now?

Maternal History? -

- Gravida # pregnancies
- Para # deliveries
- Live births full term or premature
- Still births
- Multiple births
- C-Sections?
- Spontaneous abortions
- Therapeutic abortions
- Living children

"Well-Woman Screening" History:

- When was last pap smear? Was it normal?
- When was your last breast exam? Do you examine yourself regularly?
- Any Family History of Female Cancers?

PMH/PSH:

- Past STIs?
- Any OB/GYN surgeries?

Follow up with Sexual History ↑

Cardiovascular Pre-Op Assessment

1. Assess the Pump (Heart):

- a. Power (Myocardium)
- b. Valves (Stenosis/Regurg)
 - i. NB: Stenosis is worse than Regurg because they cap the CO under load/stress.
- c. Piping (Vessels)
- d. Control (Conduction)

2. CVS Systems Review:

- a. Cardiac Failure:
 - i. Dyspnoea
 - ii. PND
 - iii. Orthopnoea
 - iv. Peripheral Oedema/Ascites
- b. IHD:
 - i. Angina (Stable/Unstable)
 - ii. Prev. MI
 - iii. FamHx of IHD
- c. Valve Disease:
 - i. Hx of Rheumatic Fever
 - ii. Old Age
- d. PVD:
 - i. Claudication
 - ii. Smoker?/Diabetic?
 - iii. Dizziness/Blackouts/Prev. TIA
- e. Conduction Deficits:
 - i. Palpitations
 - ii. Arrhythmias

3. CVS Examination:

- a. Signs of Failure:
 - i. Basal Crepitations (LVF)
 - ii. Peripheral Oedema/Ascites/Organomegaly (RVF)
- b. Signs of Structural Abnormality:
 - i. Displaced Apex (Dextrocardia/Cardiomegaly)
 - ii. Parasternal Heave
 - iii. Murmurs/Thrills
 - iv. Previous Surgery
- c. Signs of PVD:
 - i. Peripheral Pulses
 - ii. CRT
 - iii. Ulcers (Arterial/Venous)
- d. Signs of Arrhythmias:
 - i. Irregular Pulse
 - ii. Rapid Pulse
 - iii. ECG

4. Medications:

- a. Diuretics because they $\bigvee K^+ \& \uparrow Mg +$
- b. Antihypertensives
- c. Antiarrhythmics
- d. Anticoagulants esp. Dagabatran (Irreversible)
- e. Antibiotics

Likely Focussed Cardio Exams for OSCE

		Heart Failures
Left Heart Failure	- Exertional Dyspnoea	Vitals:
(LVF):	- Orthopnea	- Tachypnoea, Tachycardia (Low Volume), Hypotension
	 Paroxysmal Nocturnal Dyspnoea 	Other:
	 Wheezing Cough ("Cardiac Asthma") 	- ↓CO → Cold peripheries, ↑CRT, Peripheral Cyanosis, Cerebral Hypoperfusion
		(Inattention, Confusion)
	(+ Syncope + Angina = Aortic Stenosis)	 Pulmonary Congestion → Central Cyanosis, Basal Lung Crepitations, Diffuse
	(+ High Arch Palate of Marfans = Mitral Prolapse)	Wheezes.
		- Abdo-Jugular Reflux Positive.
		- Laterally Displaced Apex Beat (LV Dilation)
		Signs of Causes:
		 Mitral Facies & Mitral Regurg (Pan-Systolic Murmur over Mitral/Apex)
		- Mitral Facies, Mitral Stenosis (Pan-Diastolic Crescendo Murmur over Mitral/Apex)
		- OR Aortic Stenosis (Syst-Ejection Murmur over R.Sternal Border)
		 OR Aortic Regurg (Decrescendo Diastolic Murmur over R.Sternal Border) Cardiac Cachexia if → Right Heart Failure)
Right Heart Failure	 Anorexia/Cardiac Cachexia (Portal HTN) 	Vitals:
(RVF):	 Swollen Ankles, Sacrum & Abdomen, 	- Low-Volume Pulse
	- Weight Gain (Fluid)	Other:
		- ↓CO → Cold peripheries, ↑CRT, Peripheral Cyanosis, Cerebral Hypoperfusion
	(+ Pulsatile Liver = Tricuspid Regurg)	(Inattention, Confusion)
		- Rv-⊓eave - Peripheral Congestion → Peripheral Oedema (Sacral/Tibial), Ascites, Small
		Pleural Effusions.
		- 个JVP, Kussmaul's Sign (个JVP on Inspiration)
		- Portal Hypertension → "Cardiac Cachexia", Caput Medusa, Tender
		Hepatomegaly, Pulsatile Liver (TR),
		Signs of Causes:
		- COPD & Cor Pulmonale (RVF due to Pulmonary Hypertension)
		- LVF (Pulmonary Congestion)
		- Tricuspid Regurg (Pansystolic Murmur over Tricuspid + Pulsatile Liver)

7		170001
IHD & Acute	IHD:	Vitals:
Myocardial Infarction:	 Angina (Severe Central Crushing Chest Pain): 	- Tachycardia/Bradycardia
	Stable = Transient Exertional	+/-Arrhythmias (AF, VT, VF, Heart Block)
	Variant/Prinzmetal = Transient @	- Tachypnoea
	Rest	- Hypotension
	O Unstable = Resting Angina of	- Afebrile
	↑Severity & Frequency	Other:
	 (+/- Diaphoresis, Dyspnoea, Anxiety) 	- Clammy, Sweaty Hands
	AMI:	- If LV Infarct → LVF → Pulmonary Congestion, ↓CO, Cool Peripheries, Central &
	 Angina (Severe Central Crushing Chest Pain) 	Peripheral Cyanosis, (Cardiogenic Shock)
	o >20mins	 o If Papillary Muscle Dysfunction → Mit.Regurg (Midsystolic Murm)
	 Radiating to L-Arm, Neck & Jaw 	 If RV Infarct → RVF → ↑JVP, Kussmaul's Sign.
	- Dyspnoea	- If Transmural → Pericardial Friction Rub
	- Diaphoresis	Signs of Causes:
	HIMELY	r v b, Hypertension, brabetes, Hypertenoiestenoiaeima, Obesity, Simoker.
Fulliolially Ellipolisiii.	- Suddell, Sevene Dyspiloed	Vicily.
	- Pleuritic Chest Pain	- rever, lachycardia, lachyphoea, Hypotension (LVF)
	- (+/- rideliloptysis)	Cura
	- (+/- Syncope)	- RVF → Cool Peripheries, 1\CKT, Peripheral Cyanosis, 1\JVP, RV-Heave, Tricuspid Regurg Murmur
		- ↓Resp.Function → Central Cyanosis
		- Pleural Friction Rub,
		Signs of Causes:
		 DVT – Calf Pain, Calf Tenderness, Calf Swelling/Erythema, Pedal Oedema. (R/G of Pregnancy Air Travel Recent Surgery Clotting Disorders)
Acute Aortic	 Sudden, Severe Tearing Chest/Abdo Pain 	Vitals:
Dissection:	 Radiating to Back 	- Unequal Radial Pulse Pressures,
	- (+/- Stroke)	- Asymmetrical Blood Pressure
	 (+/- ALOC – due to Tamponade) 	Other:
	- (+/- Sudden Death)	 Pulsatile, Expansile Abdominal Masses, Renal Bruits
		Signs of Tamponade (↑JVP, ↓Heart Sounds, Low-Volume Pulse, etc)
		Cienc of Courses.
		Markan's Labitic
		Complications:
		- Myocardial Infarction (Coronary Occlusion). Mesenteric Ischaemia (Mesenteric
		Artery Occlusion), Pre-Renal Failure (Renal Artery Occlusion), Limb Ischaemia

	Endo	Endocardial Diseases:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Rheumatic Fever/	(Preceding Strep Throat):	Acute Rheumatic Fever:
Rheumatic Heart	 Fever, Pharyngitis, Tonsillitis, 	Vitals:
Disease:	Lymphadenopathy	- Fever, Tachycardia, Tachypnoea
	Rheumatic Fever (>2wks Post GABH Strep	Other:
	Pharyngitis):	- Ataxia (due to polyarthritis)
	- Fever	- Pericardial Friction Rub (Fibrinous Pericarditis)
	 Joints - Migratory Polyarthritis, Ataxia 	- Subcutaneous Nodules
	- Heart - Pleuritic Chest Pain (Fibrinous	- Erythema Marginatum (Red rings on trunk and limbs)
	Pericarditis)	- Sydenham's Chorea (Rapid, Involuntary, Purposeless Movements)
	- Nodules – Subcut Nodules	
	- Erythema Marginatum – Red rings on trunk	Rheumatic Heart Disease:
	& limbs	Vitals:
	- Sydenham Chorea – Rapid, Involuntary	- Afebrile, Tachycardia (+/- AF), Tachypnoea (CCF), Hypotensive
	Mvts.	Other:
	- (↑in Indigenous)	- Mitral Facies & Mitral Stenosis (+/- Mitral Regurgitation)
	Rheumatic Heart Disease:	- CCF → Inspiratory Creps, Peripheral & Central Cyanosis, ↑JVP, Dyspnoea
	- Palpitations (AF)	
	 LVF → Exertional Dyspnoea, Orthopneoa, 	Signs of Cause:
	PND	- Indigenous, Low SES, Poor Hygeine
	- Mitral Facies	
Infective Endocarditis:	- Acute PUO – (+ Chills, Night-Sweats/Weight	Vitals:
	Loss)	- Fever, Tachycardia, Tachypnoea
	- Dyspnoea	Other:
	- Mild Arthralgia ("licks joints, bites the	- Clubbing, Palmar Crease Pallor, Splinter Haemorrhages (Septic Emboli), Janeway
	heart")	Lesions (Painless Maculopapular Bacterial Colonies on Palms), Painful Osler's
	- Palpitations	Nodes (Tender, Red, Raised Nodules on Pulps of Fingers)
	- Haematuria	- Trackmarks (IVDU),
		- Conjunctival Pallor, Retinal Roth's Spots (Retinal Haemorrhages), Poor Dentition,
		- New or Changing Murmur (Either side of heart) (Often Tricuspid), Prosthetic
		Valve Click,
		- Splenomegaly
		Signs of Causes:
		- IVDU, Poor Dentition, Open Heart Surgery.
	-	

	Pei	Pericardial Diseases:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Acute Pericarditis:	- Fever	Vitals:
	 Dyspnoea (+/- Dry Cough) 	 Tachycardia, Tachypnoea (Fast, Shallow), Febrile,
	 Pleuritic Chest Pain (Worse on Supine) 	Other:
		 Pericardial Friction Rub (Best heard when sitting forward + hold breath)
		- IF Tamponade → ↑JVP, ↓Heart Sounds, Impalpable apex, & ↓CO.
		Signs of Causes:
		 URTI, Post MI, Post Cardiac Surgery, Uraemia, SLE/Rheumatoid.
Acute Cardiac	- Dyspnoea	Vitals:
Tamponade:	- Anxiety	 Tachypnoea, Tachycardia (Low Volume & Pulsus Paradoxus), Hypotension,
	- Syncope	Afebrile
		Other:
		- →JVP,
		- Impalpable Apex, ↓Heart Sounds,
		 Left Lung: Dull & Bronchial Breathing @ Base (Compressed by Heart)

Hyper	<u>Hypertensive Diseases:</u>
TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
RVF Secondary to Pulmonary Hypertension:	Vitals:
 COPD: Dyspnoea, Cough, Wheeze 	 Tachycardia (if LVF), Tachypnoea (if COPD/LVF), Hypotension (If LVF), Afebrile
 Pul HTN: Cough/Dyspnoea/PND/Orthopnea 	Other:
 RVF: Swelling (Legs, Abdo), Chest Pain 	- If LVF: Cool Peripheries, 个CRT, Peripheral & Central Cyanosis, Low Volume Pulse
	 If COPD: Clubbing, Tar Staining, Peripheral & Central Cyanosis
	- 个JVP + a-Wave, RV-Heave, Loud S2 (closure of Pul.Valve) Abdojugular Reflux
	Positive, Portal Hypertension (Tender Hepatomegaly), Ascites, Sacral/Pedal
	Oedema,
	Signs of Causes:
	- LVF, Smoking, COPD, IPF
	n h

Running Tally of Diseases Learned ENDOCRINE

	Thyroid Disease (Temperature Intolerance + Weight Change +	- Weight Change + Menstrual Change + Appearance Change):
Disease:	TYPICAL Symptoms/Presentation:	
Hyperthyroidism &	Fatigue,	Vitals:
Thyrotoxicosis:	Weight Loss (Despite ^Appetite)	 Tachycardia (Irreg.Irreg: AF), Hyperthermia, Hypertension,
(Eg. Graves Disease or	Diarrhoea	Other:
Central ↑TSH)	Heat intolerance, ↑Sweating, Facial Flushing	 Weight Loss, Flushing, Anxiety, Sweating, Tremor, Allopecia, Frightened Facies
	Irregular Menstruation	 Hands Warm & Well Perfused, Palmar Erythema, Sweaty Hands, Acropathy
	Painless Goiter	(Digital Clubbing & Swelling; Fingers & Toes) –GRAVES, Onycholysis (Plummer's
	Anxiety, Tremor, Insomnia,	Nails = Separation of Nails from Nailbed), Hand Tremor,
	Palpitations	 Proximal Myopathy (Muscle Weakness) & Wasting, But HYPERREFLEXIA
		 Exophthalmos (Frightened Facies), Lid Lag,
		- Neck Scars (Thyroidectomy → ↑Exogenous Thyroid Hormone), Palpable Painless
	(NB: IVIAY / CCF III EIGENY)	Cervical Lymphadenopathy (Graves)
		- Thyroid Bruit
		 Check Pemberton's Sign (Retrosternal Goitre) & Percuss Across the Chest
		- Gynaecomastia
		- Pretibial oedema, HYPERREFLEXIA
		Signs of Causes:
		- Goiter
		- Pituitary Adenoma (Bitemporal Hemianopsia)
Hypothyroidism &	Early symptoms:	Vitals:
Myxoedema:	Fatigue, Depression	- Bradycardia (Small Volume), Hypotension, Hypothermia
(Hashimoto Thyroiditis,	Weight Gain (Despite ↓Appetite)	Other:
lodine Deficiency or	Constipation	- Obesity, Oedema, Mental Sluggishness, Anhedonia, Slow Hypothyroid Speech,
Central ↓TSH)	Cold Intolerance, Dry Skin, Pale Skin	Hoarseness, Apathetic (Emotionless) Face,
	Menorrhagia	- Hands Cool, Dry & Poorly Perfused, 个CRT, Peripheral Cyanosis, Brittle Nails,
	Painless Goiter	Palmar Crease Pallor (from Menorrhagia), Inverse Prayer Test for Carpal Tunnel,
	Stupour, Memory Loss	Xanthomata (个Cholesterol)
	Muscle Pain	 Proximal Myopathy (Muscle Weakness) & Wasting, with "HUNG REFLEXES"
	Puffy Eyes, Hair Loss of Eyebrows	- Facial Oedema, Periorbital Oedema, Allopecia, Loss of lateral 1/3 eyebrows,
		Xanthelasma (个Cholesterol)
		- Painless Goitre, Mobile on Swallowing,
		- Pericardial Effusion, Pleural Effusions
		 Pedal Oedema, Hung Leg Reflexes, Peripheral Paresthesia
		Signs of Causes: Cretinism (Iodine Deficiency)

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Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Hyperparathyroidism:	(F>>M)	Vitals:
(↑PTH→Hypercalcaemia	Asymptomatic – Incidental Hypercalcaemia.	- ?
& Hypophosphataemia)	Symptomatic – "Bones, Moans, Stones & Abdominal	Other:
	Groans":	 Mental State (Hypercalcaemia can →Coma & Convulsions)
	 Bone: Pain/Osteoporosis/Fractures 	 Signs of Dehydration (Hypercalcaemia can → Polyuria)
	 CNS: Depression/Lethargy/Seizures 	- Band Keratopathy (Calcium Deposition underneath the Corneal Epithelium)
	 Gallstones & Kidney Stones. 	- Bony Tenderness (Shoulders, Sternum, Ribs, Spine, Hips)
	- Abdo: Constipation/Nausea/Ulcers	- Pseudogout (Calcium Pyrophosphate deposition in the knee)
		- Haematuria (Renal Stones)
	Other Organs: Metastatic Calcification in	Signs of Causes:
	Stomach/Lungs/Myocardium/Heart Valves/	- ↑PTH 2° to Chronic Renal Failure (CKD Signs + Osteoporosis)
	&Vessels	
Hypoparathyroidism:	*Hypocalcaemia → Neuromuscular **Tetany**:	Vitals:
(↓PTH→Hypocalcaemia	- → Distal Paraesthesias	- ?
→ Tetany)	- → Cramping & Spasms	Other:
	 → *Laryngospasm (Emergency) 	 Trousseau's Sign (Tetany of hand after 2mins of arm ischaemia with BP Cuff)
(Typically Post-Operative	- → Seizures	- Chvostek's sign (Unilateral Facial Twitch when the Facial Nerve Outlet is Struck)
after Thyroidectomy)	(+/- CNS: Confusion/Depression/Psychosis)	- Hyperreflexia
	(+/- CVS: Characteristic Prolonged QT-Interval)	- Fragile Nails
		- Dry Skin
		- Tooth Deformities
		Signs of Causes:
		Nock Scars (Thyroidectomy)

Type 1 Diabetes: Absolute Insulin - P Deficiency - R - R - R - R - R - R - R -	Juvenile Disease; Rapid onset: - Polyuria, Polydipsia, Polyphagia - Rapid Weight Loss Despite ↑Appetite - Nausea, Vomiting - Fatigue - Fatigue - Typically Slim Adults (≈40yrs) - Slow Progression to Insulin Dependency - Same symptoms as D1M Adult Disease; Slow, insidious onset: - Polyuria, Polydipsia, Polyphagia - Usually Overweight (Central Obesity) - No Ketonuria - Metabolic Syndrome - 1. Central Obesity - 2. Hypertension - 3. Impaired Glucose Tolerance - 4. Dyslipidaemia (↑TGLs, ↓HDL) - Young People, Non-Obese - Syx of Hyperglycaemia – PPP	 Vitals: Tachycardia (Dehydration), Postural Hypotension (Dehydration), Tachypnoea (DKA) Other: Wasting (If Type 1), Obesity (If Type 2) Fat Atrophy @ Insulin Injection Sites Face: Visual Acuity, Fundoscopy (Retinopathy–Dots/Blots), Cataracts, Xanthelasma, Sweet Breath (DKA) Mouth Infections (Candida) Carotid Bruits (PVD) Acanthosis Nigricans Go From Face to Lower Limbs: Inspection: Ulcers, Hyperkeratosis, Shiny Skin, Hair Loss, Fungal Nail Infections, Cellulitis, "Necrobiosis Lipoidica Diabeticorum" (Disgusting-looking Ulcer),
	olyphagia pite ↑Appetite 1Type Diabetes"): 40yrs) 40yrs) sulin Dependency M. onset: olyphagia entral Obesity) sity n Lcose Tolerance ia (↑TGLs, ↓HDL) Dominant): ese - PPP	Sign Sign Sign Sign Sign Sign Sign Sign
	Appetite Diabetes"): ependency ependency Colerance GLs, \(\perp \text{HDL} \) nant):	of On
	Diabetes"): ependency gia Obesity) Colerance GLs, \(\triangle HDL \) nant):	of On
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	ependency igia Obesity) Colerance GLs, \(\perp \text{HDL}\) nant):	of G
Adult D	ependency igia Obesity) Colerance GLs, \(\perp \text{HDL}\) nant):	 Sweet Breath (DKA) Mouth Infections (Candida) Carotid Bruits (PVD) Acanthosis Nigricans Go From Face to Lower Limbs: Inspection: Ulcers, Hyperkeratosis, Shiny Skin, Hair Loss, Fungal Nail Infections, Cellulitis, "Necrobiosis Lipoidica Diabeticorum" (Disgusting-looking Ulcer), "Charcot's Joint" (Poor Proprioception), Hallux Valgus, Pes Cavus, Hammer Toes, Loss of Transverse Arch Palpation: Cool Feet, ↑CRT, ↓ Distal Pulses, Pedal Oedema, Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
Adult Di	<i>igia</i> Obesity) Colerance GLs, ↓HDL)	- Mouth Infections (Candida) - Carotid Bruits (PVD) - Acanthosis Nigricans Go From Face to Lower Limbs: - Inspection: Ulcers, Hyperkeratosis, Shiny Skin, Hair Loss, Fungal Nail Infections, Cellulitis, "Necrobiosis Lipoidica Diabeticorum" (Disgusting-looking Ulcer), "Charcot's Joint" (Poor Proprioception), Hallux Valgus, Pes Cavus, Hammer Toes, Loss of Transverse Arch - Palpation: Cool Feet, ↑CRT, ↓Distal Pulses, Pedal Oedema, - Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: - Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
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(+MOD)	Igia Obesity) Obesity) Folerance GLs, ↓HDL)	Go From Face to Lower Limbs: - Inspection: Ulcers, Hyperkeratosis, Shiny Skin, Hair Loss, Fungal Nail Infections, Cellulitis, "Necrobiosis Lipoidica Diabeticorum" (Disgusting-looking Ulcer), "Charcot's Joint" (Poor Proprioception), Hallux Valgus, Pes Cavus, Hammer Toes, Loss of Transverse Arch - Palpation: Cool Feet, ↑CRT, ↓Distal Pulses, Pedal Oedema, - Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: - Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
(+MOD)	ty) Unce HDL)	Inspection: Ulcers, Hyperkeratosis, Shiny Skin, Hair Loss, Fungal Nail Infections, Cellulitis, "Necrobiosis Lipoidica Diabeticorum" (Disgusting-looking Ulcer), "Charcot's Joint" (Poor Proprioception), Hallux Valgus, Pes Cavus, Hammer Toes, Loss of Transverse Arch Palpation: Cool Feet, ↑CRT, ↓ Distal Pulses, Pedal Oedema, Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
(+MOD)	↓HDL)	Inspection: Ulcers, Hyperkeratosis, Shiny Skin, Hair Loss, Fungal Nail Infections, Cellulitis, "Necrobiosis Lipoidica Diabeticorum" (Disgusting-looking Ulcer), "Charcot's Joint" (Poor Proprioception), Hallux Valgus, Pes Cavus, Hammer Toes, Loss of Transverse Arch Palpation: Cool Feet, ↑CRT, ↓Distal Pulses, Pedal Oedema, Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
	↓HDL)	 Cellulitis, "Necrobiosis Lipoidica Diabeticorum" (Disgusting-looking Ulcer), "Charcot's Joint" (Poor Proprioception), Hallux Valgus, Pes Cavus, Hammer Toes, Loss of Transverse Arch Palpation: Cool Feet, ↑CRT, ↓ Distal Pulses, Pedal Oedema, Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
	↓HDL)	Loss of Transverse Arch - Palpation: Cool Feet, ↑CRT, ↓Distal Pulses, Pedal Oedema, - Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, - Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: - Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
	↓HDL)	 Palpation: Cool Feet, ↑CRT, ↓Distal Pulses, Pedal Oedema, Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
	(HDL)	 Neurological: Monofilament (in 9 Areas of the Foot), Vibration, Proprioception, Pain (All Leg Dermatomes EXCEPT on Soles of Feet), Reflexes Signs of Causes: Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
		Signs of Causes: - Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
1 1 1		 Cushings Facies, Acromegaly Facies, Pigmentation (Haemochromatosis)
1 1		
ı		Further Examination: CVS (PVD), CKD (Renal), Full Neurological,
	agia	Vitals:
(Only in D1M or LADA) - K	Ketoacidosis →	 Tachycardia (+/- Arrhythmia), Hypotension, Tachypnoea
	 Hyperventilation 	Other:
	 Headache/Altered Mental State 	- Sweet Breath (Acetone Breath)
	 ∨omiting→Dehydration, ↓Na, ↓Ca, 	- ALOC (↓GCS)
		 Dehydration Signs (Loss of Skin Turgor, Enophthalmos, Dry Mucosae)
		- Kussmaul's Breathing (A form of Hyperventilation: Deep, Laboured Breathing)
		Signs of Causes:
		- Diabetes (Insulin Injection Sites, Diabetes Bracelet, Peripheral Neuropathy, CKD)
		Treatment:
		 IV access → Correct Dehydration
		- Insulin + Potassium Supp. → Correct Hyperglycaemia & Electrolytes
		- Treat underlying cause (Infection)

HONC – Hyperosmolar	(NB: NO Ketogenesis – Even <i>Low Insulin</i> is enough to	Vitals:
Non-ketotic Crisis:	Inhibit Ketogenesis).	 Tachycardia (Dehydration), Hypotension (Dehydration)
(Only in D2M)	- Hyperglycaemia	Other:
	 Polyuria (Osmotic Diuresis) & Dehydration 	- Signs of Dehydration
	 Hyperviscosity → ↑Risk of Thrombosis 	- Tremor
	 Mental Impairment (Stupor/Coma) 	- ALOC (Stupor/Coma)
		- Neurology – (Sensory/Motor Impairment, Focal Seizures, Hyporeflexia, Tremors)
		Treatment:
		- IV Fluids
		- Insulin + Potassium (Since Insulin causes K ⁺ Shift <i>Into Cells</i>)
Hypoglycaemia	- Polyphagia	Vitals:
(BSL < 6.0mmol/L):	- Tremor	- Tachycardia,
	 ALOC (Confusion, Drowsiness, Seizures, etc) 	Other:
(Eg. Insulinoma,		 Sweating, Anxiety, Tremor, Palpitations
Insulin Overdose,		- Confusion, Drowsiness, Visual Disturbances, Seizures, Coma
Missed Meal)		Signs of Causes:
		- Mental Illness (Suicide Attempt),
		Treatment:
		- #1 – Give conservative dose of Oral/IV Glucose (Jellybeans/Juice/Biscuits/etc.)
		- OR – IM/IV Glucagon

	Adrenocortical Hyperfunction Disorders	unction Disorders (Symptom Cluster):
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Cushing's Disease:	- Weight Gain	Vitals:
(Hyper-Cortisolism)	- Change in Appearance (Moon Facies)	- Hypertension
	 Mood Swings/Depression/Psychosis 	Other:
(Central – Pituitary	- + Hirsutism & Menstrual Abnormalities	- Moon Facies, Central Adiposity (Weight Gain), Striae, Buffalo Hump,
Adenoma; or		Supraclavicular Fat Pads
Exogenous Steroids)		- Thin Skin, Easy Bruising, Poor Wound Healing
		- Hirsutism (in Females)
		 Visual Field Testing for Pituitary Tumour
		- Immunocompromise (Candida in Mouth, Fungal Nail Infections)
		- Ask Pt to Squat (Proximal Limb Muscle Atrophy & Weakness)
		- Bony Tenderness or Vertebral Bodies (Osteoporosis)
		- ↑Cortisol → ↑Gluconeogenesis & Insulin Resistance→→ 2ºDiabetes:
		○ Hyperglycaemia → Polyuria, Polyphagia, Polydipsia
		- Osteoporosis, backacile
		הסמושבום: (באספרוסמם ביבוסות ספר)
		Diagnosis: Negative Dexamethasone Suppression Test
Conn's Disease:	(↑Aldosterone→Hypernatraemia(& Hypokalaemia))	Vitals:
(Hyper- Aldosteron ism)	Renal Fluid Retention →	- ***Hypertension
	- ***Hypertension (Often the ONLY Syx)	Other:
(Pituitary Adenoma,	 Hypernatraemia → Neuromuscular Syx 	- Paraesthesia/Weakness/VisualΔ/Tetany
Adrenal Hyperplasia,	(Paraesthesia/Weakness/VisualΔ/Tetany)	- Ballott Kidneys for Adrenal Tumours
Carcinoma)		(NB: Hypertension can → LVH, ↑Risk of CVA & MI)
Phaeochromocytoma:	Symptoms:	Vitals:
(Hyper-Adrenalinism)	- Palpitations/Tachycardia	- Paroxysmal Hypertension, Tachycardia,
	- Headache (Hypertension)	Other:
(Idiopathic or MEN2	 Sweating/Hot Flushes 	- Warm Sweaty Peripheries, ↓CRT, Facial Flusing, Pinpoint Pupils,
Tumour Syndrome)	- Tremor	 Cardiac Flow Murmurs (Hyperdynamic Circulation), ↑Bowel Sounds,
	- Anxiety	- Ballott Kidneys for Adrenal Tumour
	- Nausea/Vomiting	Complications of Hypertension:
		 Congestive Heart Failure & Pulmonary Oedema (Dyspnoea, PND, Orthopnoea,
		Inspiratory Creps, RV Heave, ↑JVP)
		- Myocardial Infarction
		- Ventricular Fibrillations
		- CVAs

	Adrenocortical Hypofunction Disorders	unction Disorders (Symptom Cluster):
Addison's Disease:	(↓↓Aldosterone & ↓↓Cortisol)	Vitals:
(CHRONIC Adrenal	Insidious Onset:	- Postural Hypotension (Hypovolaemia)
Insufficiency)	 Weakness, Fatigue, Lethargy, Depression 	Other:
	- Anorexia, Weight Loss,	- Cachexia, Pigmentation (Palmar Creases, Elbows, Gums, Buccal Mucosa) [due to
(Autoimmune	 Vomiting, Diarrhoea 	melanocyte-stimulating activity of ACTH],
Adrenalitis)	 Skin Hyperpigmentation 	- Generalised Weakness
	 Polyuria → Dehydration (↓Aldosterone) 	- Dehydration Signs (Loss of Skin Turgor, Enophthalmos, Dry Mucosae)
		Diagnosis:
		- Clinical Diagnosis
		- Synacthen Test (Measure Cortisol & Aldosterone 30mins after ACTH Injection)
		- Hypoglycaemia (Due to Glucocorticoid (Counter-Reg) Deficiency)
Waterhouse-	Abrupt & Severe Clinical Course	Vitals:
Friderichsen	- ↓Aldosterone → Na & H2O Loss →	- Fever (Due to Meningococcal)
Syndrome:	Hypovolaemic Shock	Other:
(ACUTE Adrenal	(Death in Hours-Days unless Treated)	- Kernig's Sign (Pain on Hip Flexion & Knee Extension) & Brudzinski's Sign (Neck Flexion
Insufficiency due to		causes Involuntary Hip & Knee Flexion), Photophobia, Headache,
Meningococcal Sepsis	+ Symptoms of Meningococcal:	- Petechiae (Skin, Mucosae, Conjunctiva)
→ Adrenal Infarction)	- Fever	Signs of Causes:
	- Headache	- Typically Meningococcal Septicaemia
	- Photophobia	o : Neck stiffness
	- Neck Stiffness	o ::DIC

	Testicular Atrophy:			Autosomal Dominant)	(Genetic – Sex-Limited		(Hyper-Androgenism)	PCOS:	Polycystic Ovaries		
	High risk of Testicular Cancer	 4. Metabolic Syndrome ("Synd. X"): Insulin Resistance (+/- Obesity, D2M, ↑ Cholesterol) 	Deepening Voice	 - 3. Masculinisation: Acne, Hirsutism (↑Hair), 	Infertility	 - 2. Menstrual Changes: Amenorrhoea → 	 1. Infertility: Due to Anovulation 	Hyperandrogenism)	(↓Conversion of Androgens →Oestrogen →	Gonadal Diso	
Other: Signs of Causes: - Hypopituitarism, Chronic Alcoholism, Chemotherapy/Radiation, Chronic Anabolic Steroid Use	Vitals:	Signs of Causes:	- Palpate Abdomen for Ovarian Masses	Polyuria, Polydipsia, Polyphagia)	- Metabolic Syndrome (Obesity, Xanthelasma, Xanthomata, Acanthosis Nigricans,	- Hirsutism (Facial hair, deepening voice, acne)	Other:	- Hypertension	Vitals:	Gonadal Disorders (Symptom Cluster):	

Space-Occupying Lesions – (Eg. Adenomas): Pituitary Disorders (Symptom Cluster):

- \rightarrow Compression of Optic Chiasm \rightarrow Visual Field Defect (Bitemporal Hemianopia)
- \rightarrow Compression of Extrinsic Ocular Muscles \rightarrow Oculomotor Palsies ("Ophthalmoplegia")
- → Increased Intracranial Pressure → Headaches

ncreased Hormone Secretion → Hyperpituitarism:

Anterior Pituitary:

- Eg. \uparrow PRL Due to Prolactinoma \rightarrow Galactorrhoea
- Eg. \uparrow GH Pit. Tumour \rightarrow Gigantism (Kids)/Acromegaly(Adults)
- Eg. ↑ACTH Pit. Tumour → Cushing's Disease
- Eg. \uparrow FSH/LH Pit./Hypothalamic Tumour \Rightarrow Precocious Puberty
- Eg. \uparrow TSH (Rare) Pit. Tumour \rightarrow Primary Central Hyperthyroidism

Posterior Pituitary:

- Eg. ↑ADH Hypothal.Osmorecep.Dysfunction → SIADH
- **Decreased Hormone Secretion** → **Pan-Hypopituitarism:** (Eg. Sheehan's Disease: Post-Partum Hypopituitarism)(Eg. Pituitary Apoplexy/ Infarction)
- **Initially Asymptomatic**

Later

- 2° Hypothyroidism
- 2° Adrenal Insufficiency (Similar to Addisons)
- 2° Dwarfism (GH Deficiency)

(In Sheehan's Syndrome):

0

- Agalactorrhoea (No Lactation)
- /Amenorrhoea after Delivery

Acromegaly/Gigantism:

Pituitary Adenoma) Insidious Onset

Bitemporal Haemianopsia +/- Compressive Pituitary Adenoma → Headache +

before/during puberty) Mostly Middle-Aged Adults (But Gigantism if

Change in Appearance (Severe Disfigurement)

Complications:

- Hypertrophic Cardiomyopathy & Heart
- Hypertension & Kidney Failure
- Hyperglycaemia & Diabetes Mellitis
- Possible Malignancy **Accelerated Osteoarthosis**

Vitals:

Hypertension

Other:

- Acromegaly Facies (Frontal Bossing, Prominent Jaw, Prominent Brow Ridge,
- Enlarged Tongue, Thickened Lips)
- Soft-Tissue Swelling (Hands, Feet, Nose, Lips, Ears, Skin, Carpal Tunnel, Thyroid)
- Bitemporal Haemianopsia, Fundoscopy (Papilloedema & Hypertensive Changes)

Spade-Like Hands (Soft Tissue Enlargement), Warm & Sweaty, Thick Greasy Skin,

- Osteoarthritis Heberton's Nodules

Proximal Myopathy (Arms & Legs), Foot Drop (Common Peroneal Nerve Compres)

- Gynaecomastia, Skin Tags in Axillae (Molluscum Fibrosum)
- CVS (Arrhythmias, Cardiomegaly, CCF)
- Hepatomegaly, Splenomegaly, Renal Enlargement

Prolactinoma:	Bitemporal Haemianopsia	Vitals:
	Headaches	Other:
	Glactorrhoea	- Bitemporal Haemianopsia
		- Nipple Discharge
SIADH:	 1. Fluid Overload Without Oedema or Hypertension 	tension
(Hypothalamic	 2. Hyponatraemia (Dilutional + 个Excretion): 	
Dysfunction $\rightarrow \uparrow ADH$)	○ If Severe → Cerebral Oedema →	
	Nausea/Vomiting	
	Headache/Confusion/Seizures/Coma	s/Coma
	- 3. High [Sodium] in Urine	
	 4. High Urine Osmolarity (relative to Plasma Osmolarity) 	Osmolarity)
	5. Normal Renal & Adrenal Function	
Diabetes Insipidus:	 Polydipsia (Extreme Thirst) 	
(ADH Deficiency or	 Polyuria (Excessive Urination) 	
Renal ADH Insensitivity)	 Risk of Hypokalaemia 	
	Risk of Dehydration (If water isn't available)	

	- Nipple Discharge
SIADH:	- 1. Fluid Overload Without Oedema or Hypertension
(Hypothalamic	- 2. Hyponatraemia (Dilutional + 个Excretion):
Dysfunction → ↑ADH)	o If Severe → Cerebral Oedema →
	■ Nausea/Vomiting
	Headache/Confusion/Seizures/Coma
	- 3. High [Sodium] in Urine
	- 4. High Urine Osmolarity (relative to Plasma Osmolarity)
	5. Normal Renal & Adrenal Function
Diabetes Insipidus:	- Polydipsia (Extreme Thirst)
(ADH Deficiency or	- Polyuria (Excessive Urination)
Renal ADH Insensitivity)	- Risk of Hypokalaemia
	Risk of Dehydration (If water isn't available)
	Multiple Endocrine Neoplasia Syndromes (Symptom Cluster):
	(Autosomal Domimant)
MEN 1:	Pituitary Adenomas
	HyperParathyroidism
	Insulinomas
MEN 2:	Thyroid Cancer
	Phaeochromocytoma

Running Tally of Diseases Learned

GIT

- כוווטוווג אונטווטוואוו (טעטעעניפור א כטוונימכנערפ, כפרפטפוומר טעאועווננוטוו)		
Signs of Causes:		
Pedal Oedema)		
Xanthomata, Xanthelasma, Scleral Icteris, Hepatic Fetor, Hepatic Flap, Ascites,		
- II CITTIOSIS (Palifiat Efytheria, iviee s/ivieurkile s/teukonytilia, jauriuite,		Cirriosis)
If O's the circles are the control of the circles are the circ		
- Portal HTN (Caput Medusa, Ascites, Hepatomegaly, Splenomegaly, Pedal Oedema)		Often 2° to alcoholic
Other:	 − May Rupture → Massive Bleeding 	Hypertension):
- Normal unless Haemorrhage (Tachycardia, Tachypnoea, Hypotension)	- Hematochezia	(Due to Portal
Vitals:	- Hematemesis	Oesophageal Varices
- NB: Nothing to do with Alcohol.		
(Bulimia), Destroyed dentition (Bulimia)		
- Obesity (Gluttony), Subconjunctival Haemorrhages (Severe Coughing), Low BMI		
Signs of Causes:		
•		(Longitudianl tear)
Other:		laceration –
Vomiting)	- Haematemesis	= Oesophageal
- Normal (Tachy if Pain/Dehydration/Blood Loss), Bradypnoeic (if Alkalotic from	- Chest Pain	Syndrome Tear:
VIGIS	- Dyspilagia & Odynopilagia	ividiiory vveiss
Vitori.		Molloma Molec
	Oesophageal Spasm)	
	 Spontaneous Chest Pain (Due to 	
- None	→ Can cause Aspiration Pneumonia	
Other:	 Regurgitation of food – Particularly at Night 	Aperistalsis)
- Normal	FROM THE ONSET.	(Oesophageal
Vitals:	 Chronic Dysphagia of BOTH Liquids & Solids 	Achalasia:
- Immunocompromise (Eg. Oral Candidiasis)		
Signs of Causes:	şic) - Sore Throat/Chest Pain (Oesophageal Pain)	Or Eosinophilic/Allergic)
- Fever, Tachycardia,	າp - Heartburn	(Infection in Imm.comp
Vitals:	- Dysphagia	Oesophagitis:
TYPICAL Clinical Signs:	TYPICAL Symptoms/Presentation:	Disease:
ngeus)	With Liquids Only = Pharyngeal Disorders – (Globus Pharyngeus)	o With L
Nv]/ <u>Scleroderma</u>)	With Solids & Liquids = \downarrow Motility – (Achalasia/Neural[Vagus Nv]/ $\frac{Scleroderma}{Scleroderma}$	o With S
= Mechanical Obstruction – (Hiatus Hernia/Strictures/Plummer Vinson Web from Iron Deficiency/Tumours)		o With S
	phagia:	 Types of Dysphagia:
	ptom NOT Disease:	NB: Dysphagia – Symptom NOT Disease:
Oesophageal Disorders:	<u>Oesor</u>	

	Gastro-Oesoph	Gastro-Oesophageal Junction Disorders
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Hiatus Hernia:	 Mostly Asymptomatic 	Vitals:
	- "Heartburn" GORD	- Normal
	 Epigastric Pain (Oesophageal Torsion) 	Other:
	 Dyspnoea (Affect on Diaphragm) 	- None
	 Palpitations (Irritation of Vagus Nerve) 	
GORD, Barrett's	 Heartburn (Retrosternal Burning/Pain) 	Vitals:
Oesophagus &	- Dysphagia	- Normal
Oesophageal Tumours:	Complications:	Other:
	 Bleeding, Stricture 	- None
	 Barrett's Oesophagus 	Signs of Causes:
	 Malignancy → Progressive Dysphagia (Solids 	- Obesity, Indian (Spicy Foods), Alcoholism, Pregnancy
	→ Liquids), Weight Loss, Anorexia	

?		Stomach Disorders
<u>Disease:</u>	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Gastritis:	- Epigastric Pain	Vitals:
= Inflammation of the	- Nausea/Vomiting	- Tachycardia (if infection), all else normal
Stomach Lining	 Indigestion (Dyspepsia) 	Other:
		- Epigastric Tenderness
		Signs of Causes:
		- Infection
		- Pernicious Anaemia (B12 Deficiency → Peripheral Neuropathy & Macro.Anaemia)
		- Alcohol Abuse (Dupuytren's Contracture, Macro.Anaemia, Cerebellar Dysfunction)
Peptic Ulcer Disease:	 Burning Epigastric Pain (Relieved by Food) 	Vitals:
(NSAIDs, H.Pylori, or	- Haematemesis/Melena	- Normal unless Perforated (Tachycardia, Tachypnoea, Hypotension)
Gastrinoma/ZE-Synd)	- Nausea & Vomiting	- If Anaemic from GI Bleeding (Tachycardia, Tachypnoea)
	 - (If Perforated → Acute Peritonitis & Shock) 	Other:
	 (If Pyloric Stenosis → Irretractable Vomiting) 	- But may have weight-loss
	- NB: May → Gastric Ca. → Weight Loss	ISAIDs $ ightarrow$ Pale Nails, Koilonychia ($ ightarrow$ Fe), Palmar Pallor, SC Pallor,
		Breathing, Cullen's Sign, Grey Turner's Sign, Peripheral Shutdown, ALOC)
Zollinger Ellison	- Abdominal Pain	
Syndrome:	- Dyspepsia	- Normal (unless hypovolaemic from diarrhoea)
(Adenoma/Gastrinoma)	- Chronic Steato-Diarrhoea (Inactivation of	Other:
	Pancratic Lipase by ↑Acid)	- None
		Signs of Causes:
	(NB: Malignant Potential)	- Abdominal Masses (but usually way too small to detect)
Gastric & Duodenal	 Asymptomatic until Advanced Disease 	Vitals:
Cancers:	- Early Syx:	- Fever, Tachycardia (If Anaemia or Hypovolaemic), Tachypnoea (If Anaemia)
("Fungating" – H.Pylori)	 Epigastric Pain, Nausea/Vomiting, 	Other:
("Leather Bottle" –	Anorexia/Weight Loss, Adenopathy,	- Virchow's Node (L-Supraclavicular LN), Acanthosis Nigricans in Axillae,
Familial)	Anaemia.	- Anaemia (Pale Nails, Palmar Pallor, SC Pallor, Atrophic Glossitis)
	 Late Symptoms: Malignant Ascites/Jaundice, 	- Metastases (Oesophagus, LN, Liver, Lungs)
	Symptoms of Brain/Bone/Lung Mets	Signs of Causes:
		 Peutz Jegher's Syndrome (Mouth Pigmentation, Clubbing)
		- Alcoholism, Smoking

	<u>Intestinal N</u>	ntestinal Malabsorption Disorders
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Coeliac Disease:	 Can Present at ANY Age (Peaks = Infancy, in 	Vitals:
(SI Gluten	50's)	- Normal
Hypersensitivity)	- Fatigue, Malaise	Other:
	- Diarrhoea/Steatorrhoea	 Weight Loss, Mouth Ulcers, Angular Stomatitis, Atrophic Glossitis,
	 Abdo Pain/Discomfort/Bloating 	
Radiation Enteritis:	- Acute Sx – Nausea, Vomiting, Diarrhoea,	Vitals:
(Fibrosis from	Abdo Pain. (Improves within 6wks of	- Tachycardia (Hypovolaemia/Anaemia), Tachypnoea (Anaemia), Hypotension
Radiotherapy)	Radiation)	(Hypovolaemia)
	- Chronic Sx – (Symptoms for >3mths) Pain	Other:
	due to Obstruction, Malabsorption,	 Radiation Tattoos, Radiation Fibrosis of Skin (Abdomen/Back/Perineum), Anal
	Diarrhoea, Tenesmus	Fissures (Diarrhoea), Surgical Scars, Abdominal Distension
Tropical Sprue:	- **Chronic Diarrhoea + Malabsorption	Vitals:
"Severe Infective	- Anorexia, Weight Loss	- Fever, Tachycardia (Hypovolaemia/Anaemia/Infection), Tachypnoea
Malabsorption,	- Abdo Distension	(Anaemia/Infection), Hypotension (Hypovolaemia)
Accompanied by		Other:
Diarrhoea &		 Malabsorption → Macro Anaemia (Pale Nails, Palmar Pallor, SC Pallor, Atrophic
Malnutrition" – But	(Residents/Visitors of Affected Tropical Areas (Asia,	Glossitis, Peripheral B12 Neuropathy)
Unknown Agent.	Caribbean, S.America))	- Low BMI
Whipples Disease:	 Initially – Arthritis & Arthralgia 	Vitals:
(Chronic Bacterial	 YEARS Later → Fever, Abdo Pain, Diarrhoea, 	- Fever, Tachycardia
Infection: Tropheryma	Weight Loss → MALABSORPTION	Other:
Whipplei)		- Lymphadenopathy, Poly Arthritis, Steatorrhoea, Oedema, Anaemia (Fe/B12),
		Weight Loss
		 Can → Brain Damage (Mental Changes/Memory Loss)
		- Can → Endocarditis (Heart Murmur)

d Poisoning) (If Chronic, more likely to be Parasitic than Bacterial)	Disease: Acute Bacterial Diarrhoeal Diseases: (ETE.Coli = Traveller's) (S.aureus & Salmonella = Food Poisoning) (Shigella = Dysentery) Acute Viral Diarrhoea: (Rotavirus)	TYPICAL Symptoms/Presentation: Duration: - Hyperacute (<24hrs) – Probably - Sub-Acute (<3-5days) – Probably Gastroenteritis (Food Poisoning) (If Chronic, more likely to be Parasitic that - Vomiting - + Watery Diarrhoea - + Fever	
	TYPICAL Symptoms/Presenting Duration: - Hyperacute (<24hrs - Sub-Acute (<3-5day: Gastroenteritis (Foo	Specific I L Symptoms/Presentation: n: Hyperacute (<24hrs) — Probably ETEC Toxin Sub-Acute (<3-5days) — Probably Infective Gastroenteritis (Food Poisoning) nic, more likely to be Parasitic than Bacterial)	TYPICAL Clinical Signs: TyPICAL Clinical Signs: Vitals: Toxin
	lla = Dysentery)		Signs of Causes: - Dysentery (Blood & Pus in Stools) = Shigella
9::0	Viral Diarrhoea:	- Vomiting	Vitals:
- Vomiting Vitals:	/irus)	 + Watery Diarrhoea 	 Fever, Tachycardia, Tachypnoea, Hypotension (Hypovolaemic)
Diarrhoea: - Vomiting - Vitals: + Watery Diarrhoea		- + Fever	Other:
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever Other:		(Typically In a Child/Infant)	 Typically In a Child/Infant → Irritability, Poor Feeding
Diarrhoea: - Vomiting - + Watery Diarrhoea - Yitals: - + Fever - Other:			 Peripheral Shutdown, ↑CRT, Low-Volume Tachycardia, Dry Mucosae,
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant)			Enophthalmos, Loss of Skin Turgor)
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant)			Signs of Causes:
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant) - Signs of			 Hippie Mother Not Vaccinating!
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant) - Signs of	Chronic Diarrhoea	 Long-Term Diarrhoea 	Vitals:
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever (Typically In a Child/Infant)	(Usually Parasitic/	- Weight Loss	- Normal
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant)	lrritable Bowel/ or	- Fatigue	
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant)	Malignancy)		
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant) - Chier: Cong-Term Diarrhoea - Weight Loss - Weight Loss - Fatigue Other: - Other: - Other: - Other: - Other:			
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant) - Cother:			
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant) - Cother:			
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant) - Cother: - rasitic/ - Weight Loss - Weight Loss - Other: - Signs of - Cother: - Signs of - Cother: - Signs of - Cother: -			∸ ,
Diarrhoea: - Vomiting - + Watery Diarrhoea - + Fever - + Fever (Typically In a Child/Infant) - Tasitic/ - Weight Loss - Weight Loss - Weight Loss - Signs of - Tatigue - Signs of - Signs o			∸ ,

	Unique	Unique Intestinal Infections:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Intestinal Tuberculosis	 **Fever + Night Sweats 	Vitals:
Mycobacterium	- **Weight Loss	- Fever, Tachycardia, Tachypnoea (if Pulmonary TB)
tuberculosis	 *Ileocaecal Area is most commonly 	
	affected → RIF Abdominal Pain	- Palpable Masses, Generalised Peritonitis, Bowel Obstruction, Anaemia
		Signs of Causes:
		- Immunocompromised (HIV/Drugs)
		- Pulmonary TB
Pseudomembranous	 Onset within 2days of Antibiotics; 	Vitals:
Colitis:	Persists for 2wks After.	- Fever, Tachycardia (Infection & Dehydration), Tachypnoea (infection),
Clostridium Difficile	- Fever,	Hypotension (Dehydration)
Overgrowth due to	- Abdo Cramps	Other:
Antibiotic $\rightarrow \downarrow$ Gut Flora	 Profuse Water Diarrhoea (<10/day) 	- Abdo Pain, Haematochezia
(C.Diff is Directly Cytotoxic)	- Faecal Urgency	- (If Perforation – Peritonitis, Shoulder-tip Pain, Cullen's/Grey-Turner's, Shock)
	NB: Can Perforate	of Bowel Sounds)
	NB: Can → Toxic Megacolon	Signs of Causes:
		- History of Antibiotic Usage
Diverticulosis/Diverticulitis:	NB: Diverticulosis is Asymptomatic	Vitals:
		- Fever, Tachycardia,
	NB: Diverticul-ITIS is Symptomatic:	Other:
	- Severe <u>LEFT</u> lliac Fossa Pain	- LIF Tenderness/Guarding/Rigidity
	- Fever	- GI Bleeding → Anaemia (Pale Nails, Koilonychia, Palmar/SC Pallor, Glossitis)
	- Constipation	- (NB: If Perforation → Peritionitis, Shoulder-Tip Pain, Sepsis, Shock, Death)
	(IE. Similar to Appendicitis, but on the Left)	Signs of Causes:
		- Opioid Addicts (Chronic Constipation), Paraplegic, Multiparity.
Appendicitis:	- Initially Umbilical Pain → Severe <i>RIGHT</i>	Vitals:
	Iliac Fossa Pain	- Fever, Tachycardia,
	- Fever	Other:
	 Nausea/Vomiting/Anorexia/Diarrhoea(o 	- R-Iliac Fossa Pain/Tenderness/Guarding
	ccasionally)	- Rovsing's Sign: Referred Rebound Pain in the RIF when the LIF is Pressed.
	(le. Similar to Diverticulitis, but on the Right)	- Psoas Sign: RIF Pain on Flexion of the Hip
		- Obturator Sign: RIF Pain on Internal Rotation of the Hip
		- Mcburney's Sign: Deep tenderness at McBurney's point
		If Ruptured Appendix:
		- Sepsis, Snock, High Fever, Generalised Peritonitis (Guarding/Rigidity/Rebound)

Crohm's Disease: - Typically Starts @ Ileocecal Valve (RIF) Vitals: (Mouth → Anus) Common Symptoms (Both CD & UC): - Fever, (Patchy) - **Abdominal Pain/Severe Internal Cramps Other: - **Vomiting/Diarrhoea *(Porridge-like, Fatty) - Clubbing - Mouth Ulcers & Anus Involvement, - **Rectal Bleeding - GI Bleeding → Anaemia (Pale Nails, Koilonychia, Palmar/SC Pallor, Glossitis) Signs of Causes:

	- **Rectal Bleeding	- GI Bleeding → Anaemia (Pale Nails, Koilonychia, Palmar/SC Pallor, Glossitis)
	(+ Tenesmus)	- Autoimmune (Arthritis, Iritis, Pyoderma Gangrenosum, Primary Biliary Cirrhosis)
	Functio	Functional Bowel Diseases:
<u>Disease:</u>	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Irritable Bowel	 Chronic Abdo Pain/Discomfort 	Vitals:
Syndrome/'Spastic	 Alternating Bowel Habits (+ Tenesmus) 	- Normal
Colon':	 (All Investigations Normal) 	Other:
(Umbrella Term)		- Normal
		Signs of Causes:
		 *Stress/Anxiety/Depression, Chronic Pain, Gut Hypersensitivity.
Hirschsprung's Disease	Presentation within 2-3days after Birth:	Vitals:
("Congenital	 Delayed Meconium (First Defecation) 	- Normal
<u>Aganglionic</u>	- Abdo Distension	Other:
Megacolon"):	- Vomiting	- Abdominal Distension & Tenderness, Poor Feeding, Irritability, Anorexia
(Immotile Section of		Signs of Causes:
Colon)		- Baby
Meckel's Diverticulum:	(NB: Majority are Asymptomatic)	Vitals:
(Congenital SI True	Presentation @ 2yrs Old:	 Tachycardia (Pain/if infected), Tachypnoea (Pain), Hypertension (Pain)
Diverticulum)	- Malena (Bleeding)	Other:
	- Severe Central Abdo Pain	- Abdominal Distension, Abdominal Tenderness, Peritonitis & Sepsis (perforation),
	(Obstruction/Volvulus/Intussusception)	Loss of Bowel Sounds, Visible Peristalsis, Cullens/Grey-Turners (Hemoperitoneum)
		Signs of Causes: Baby

	Inte	Intestinal Tumours:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Colonic Polyps:	 Asymptomatic in Early Stages 	Vitals:
	 (+/- Change in Bowel Habits) 	- Normal
	- (+/- Syx of Anaemia)	Other:
(NB: Common in		- None
Autosomal Dominant		- If Anaemia (Koilonychia, Pale Nails, PC/SC Pallor, Atrophic Glossitis)
Peutz-Jeger's		Signs of Causes:
Syndrome)		 Peutz-Jeger's Syndrome (Clubbing + Melanin Pigmentation on Lips & Hands)
	<u>B</u>	Bowel Cancers:
Sporadic Bowel Cancer:	Bowel Ca. Common Symptoms:	Vitals:
(Most Common)	 (Asymptomatic in Early Stages) 	 Tachycardia (if Anaemia/Hypovolaemic/Perforation/Septic)
→ Descending Colon	 Change in Bowel Habit & Stool Shape 	 Tachypnoea (if Anaemia/Perforation/Septic)
	 Blood Mixed Within Stool (+/- Anaemia) 	
	 Abdominal Cramping & Bloating 	- Febrile (If Septic)
	 Fevers/Night Sweats 	
	- Weight Loss	 Acanthosis Nigricans in Axillae (Sign of GI Malignancy)
	- Fatigue	- If Anaemia (Koilonychia, Pale Nails, PC/SC Pallor, Atrophic Glossitis)
	- (Late → Bowel Obstruction +/- Metastasis)	- If Shock (个CRT, Cool Peripheries, Peripheral Cyanosis, Low-Vol Pulse, Dry 位
Inherited Bowel	HNPCC; Amsterdam Criteria:	ritonism (Cullen's/Grey-Turner's Signs, Tenderness/Guarding/Rebound,
Cancer:	 1. Must have 3 Affected Relatives 	
(Rare; Autosomal Dom)	- 2. >One Relatives must be a 1 st -Degree	0,
→ Ascending Colon	 - 3. FamHx must span >2 Generations - 4. 1 cases diagnosed @ <50vrs 	Lines, Mee's Lines, xantnomata, Palmar Erytnema, Scieral Icteris, Hepatic Flap, Hepatic Fncenhalonathy, Xanthelasma, Hepatic Fetor, Hepatomegaly,
	FAP:	Gynaecomastia, Spider Naevi, Abdominal Distension, Caput Medusa, Ascites,
	 APC Gene Mutation 	Pedal oedema, Bruising, Scratchmarks)
		Signs of Causes:
		- NB: Both HNPCC & FAP → ↑Risk of other Cancers (Endometrial/Gastric/Ovarian)
Carcinoid Tumour of	- Hot Flushes	Vitals:
the Intestines:	- Watery Diarrhoea	- Hypotension (Systemic Vasodilation; & Hypovolaemia), Tachycardia (Hypovol)
(Serotonin	- Abdominal Pain	Other:
Neuroendocrine	- Palpitations	- Cardiac Abnormalities – Pulmonary Stenosis or Tricuspid Regurgitation $ ightarrow$ Tender
Tumour)		Pulsatile Hepatomegaly.
	(3 Common Sites = Appendix, Terminal Ileum,	- "Pellagra" (Sign of Niacin/B3 Deficiency) → Delusions, Confusion, Scaly Skin Sores.
	Rectum; Also the R-sided Heart Valves)	

	Back-P	Back-Passage Disorders:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Haemorrhoids (Internal	 Internal H.rhoids → Painless Rectal Bleeding 	Vitals:
<u>& External)</u>	 External H.rhoids → Painful Rectal Bleeding 	- Normal
(Incompetent Valves in	 (Blood on Toilet Paper) 	Other:
Rectal Vasculature)	- (+/-Itching)	- Normal
		Signs of Causes:
		 Previous Pregnancies, Weight-Lifters, Chronic Pain, Antiepileptics, Poor Diet,
		Homosexual Men
Anal Fissures	 Painful Defecation 	Vitals:
	 Blood on Toilet Paper 	- Normal
		Other:
		 Usually extend Outwards from Anal Opening; Depth may be superficial or deep
		Signs of Causes:
		- Constipation/Prolonged Diarrhoea/Crohn's Disease/Post-partum/Anal sex
<u>Pilonidal</u>	 Extremely Painful, Tender Cyst/Abscess 	Vitals:
Sinuses/Cyst/Abscess:	between the Buttocks.	- Normal
		Other:
		- Cyst/Abscess between the buttocks that often contains hair and skin debris
		Signs of Causes:
		- Hairy Men, Adolescents, Poor Hygeine

Clinical Evaluation of a Pt with an "Acute Abdomen":

- **Conditions Requiring Laparotomy:**
- Organ Rupture (Spleen/Aorta/Ectopic)
- → Shock
- 0 Peritonitis (Perf'd PUD/DUD/Diverticulum/Appendix/Bowel/Gallbladder)
- **Conditions NOT Requiring Laparotomy:**

Local Peritonitis (Diverticulitis, Cholecystitis, Salpingitis, Appendicitis)

→Lying Still, Tenderness (Guarding/Rebound/Percussion), Abdo Rigidity

- → Prostration, Shock, Lying Still, Tenderness (Guarding/Rebound/Percussion), Abdo Rigidity, No Bowel Sounds.
- → Restlessness, Regularly Waxing/Waning Pain.
- Tests to Perform:
- U&E, FBC, Amylase, LFT, CRP, ABG, Urinalysis
- Erect CXR (look for Air under Diaphragm)
- **Immediate Priorities:**
- Resuscitation Before Surgery!! NB: Anaesthesia compounds shock!!

Pathogenesis & Signs of Hepatic Encephalopathy (Hepatic Coma) Hepatic Encephalopathy ($\uparrow\uparrow$ Ammonia in Bloodstream due to $\downarrow\downarrow$ Liver Breakdown)

- - → Forgetfulness/Confusion/Irritability
- → Tremor/Asterixis (Due to ↓Proprioception)
- 0 → Seizures/Coma

		Background Info on Jaundice:
Disease:	TYPICAL Symptoms/Presentation:	
Unconjugated	Jaundice + Neonate	→ Physiological Neonatal Jaundice
(Prehepatic/Haemolytic)	Jaundice + Dyspnoea + Fatigue	→ Haemolytic Anaemia
Jaundice	Jaundice + Young + Family Hx of Jaundice	→ Gilbert's Disease.
	Jaundice + Young + Malaise	→ Hepatitis
	Jaundice Epidemic	→ Hep A Virus
	Jaundice + Recent Shellfish Consumption	→ Hep A Virus
	Jaundice + Hx of IVDU/Injections/Tattoos	→ Hep B/C Viruses
	Jaundice + Sodomy/Prostitution	→ Hep B Virus
	Jaundice + Elderly + Weight Loss	→ Carcinoma
Conjugated	Jaundice + Elderly + Weight Loss	→ Carcinoma
(Posthepatic) Jaundice	Jaundice + Abdo Pain	→ Biliary Obstruction (Gallstones)
	Jaundice + 50yr old Woman	→ Priamry Biliary Cirrhosis
	Jaundice + Dyspepsia + Steatorrhoea	→ Head of Pancreas Tumour
	Jaundice + Fevers/Rigors	→ Cholangitis or Liver Abscess.

	General	General Liver Syndromes:
Disease:	TYPICAL Symptoms/Presentation:	l Signs:
Fulminant Hepatic	 Jaundice, Pruritis 	Vitals:
Failure	- Bleeding, Bruising	- May be Febrile
(Acute Liver Failure):	- RUQ Pain	Other:
(Alcohol/Drugs/Chronic	- Fetor Hepaticus	- Jaundice, Scratch marks,
Hepatitis/Biliary	 Cerebral Oedema, Vomiting 	- Bruising/Petechiae/Purpura,
Obstruction/Etc)	 Hepatic Encephalopathy (within 2 wks) 	- Hepatic Flap, Hepatic Encephalopathy, Hepatic Fetor
	 Death without transplant. 	- RUQ Tenderness
		- Oedema
Hepatic Cirrhosis	May be Asymptomatic	Vitals: Normal
(Chronic Liver Failure):	- RUQ Pain	Other:
(Alcohol/Drugs/Chronic	 Pruritis (Jaundice), Bruising (Liver Failure) 	- Jaundice, Ascites, Pedal Oedema
Hepatitis/Biliary	 Abdominal Distension, Ankle Swelling, Caput 	- Clubbing, Leukonychia, Muercke's Lines, Mee's Lines, Xanthomata, Palmar
Obstruction/	Medusa (Portal Hypertension)	Erythema, Bruising, Scratchmarks, Scleral Icteris, Hepatic Flap, Hepatic
Haemochromatosis/	 Gynaecomastia, ↓Libido, Amenorrhoea, 	Encephalopathy, Xanthelasma, Hepatic Fetor, Shrunken Nodular Liver (Micro or
Wilson's Disease/Etc)	Palmar Erythema, Spider Naevi (Oestrogen	Macro-Nodular depending on Aetiology), Splenomegaly, Gynaecomastia, Spider
	Excess)	Naevi, Abdominal Distension, Caput Medusa, Testicular Atrophy, Ascites, Pedal
	 Confusion/Forgetfulness/Drowsiness/Flap/ 	oedema)
	Coma/Seizures (Hepatic Encephalopathy)	Signs of Causes:

IVDU, Alcoholism, Tattoos, Skin Pigmentation (Haemochromatosis), Cachexia

(Ca), Xanthelasma/mata (Chronic Biliary Obstruction)

(Yellow Fever Virus, Epstein Barre Virus = Hepatitis (Jaundice) + Teenage -	Acute Hepatitis's: Cytomegalovirus/HHV = Hepatitis in Immunocompro	Non-Hepatitis-Virus Yellow Fever = Hepatitis (Jaundice) + Dengue-Like Syx					(Unknown Aetiology) - Or – Jaundice + Fatigue, Fever, Polyarthritis,	Autoimmune Hepatitis: May be Asymptomatic – Incidental Diagnosis.	- Abdo Distension	Hepatitis: - RUQ Pain/Tenderness	Paracetamol-Induced - Jaundice								- (Ataxia)	- Abdo Distension	Atrophy	- Gynaecomastia, Spider Naevi, Testicular	- Palpitations	(Alcoholic Hepatitis): - RUQ Tenderness	Alcoholic Liver Disease - Jaundice	<u>Disease:</u> <u>TYPICAL Symptoms/Presentation:</u>	Hepatitis (Acute <6)	
Epstein Barre Virus = Hepatitis (Jaundice) + Teenage + Fever + Pharyngitis + Lymphadenopathy + Hepato/Splenomegaly + Haemorrhages.	Cytomegalovirus/HHV = Hepatitis in Immunocompromise	Yellow Fever = Hepatitis (Jaundice) + Dengue-Like Syx (Fever + Fatigue + Myalgia + Haemorrhages)	- Associated Diseases – (Pernicious Anaemia/Thyroiditis/Coeliacs/AHA/Polyarthritis)	Signs of Causes:	- Jaundice, Striae, Ascites, Acne.	Pleurisy. Other:	- Fever	1ay be Asymptomatic – Incidental Diagnosis. Vitals:	- Abdo Distension	- RUQ Pain/Tenderness	- Jaundice	- Anaemia (Macrocytic – B12 Deficiency) (Microcytic – if GI Blood Loss)	V	ke/Korsakoff Syndrome, Cerebellar Degeneration,	- Dupuytren's Contracture	Signs of Causes:	Pedal oedema)	Spider Naevi, Abdominal Distension, Caput Medusa, Testicular Atrophy, Ascites,		1	1	- Gynaecomastia, Spider Naevi, Testicular - Fatty Liver Changes → Hepatomegaly, RUQ Tenderness	- Palpitations Other:	- RUQ Tenderness - AF (If Dilated Cardiomyopathy)	- Jaundice Vitals:	YPICAL Symptoms/Presentation: TYPICAL Clinical Signs:	Hepatitis: Liver Inflammation: (Acute <6mths; Chronic >6mths)	

		Hepatitis-Viruses > Chronic Hepatitis: (Hep B, B+D, & C) (Blood-Transmission) (Acute > Chronic)	Hepatitis-Viruses > Acute Hepatitis: (Hep A & E) (Faecal-Oral) (Acute ONLY)
 Cirrhosis → Liver Failure: Abdominal Distension +Ankle Swelling Pruritis (Jaundice), Bruising Gynaecomastia, ↓Libido, Amenorrhoea (Oestrogen Excess) Confusion/Drowsiness/Coma/Flap (Hepatic Encephalopathy) 	 Chronic → Chronic Hepatitis Symptoms: May have Non-Specific Viral Syx if Reactivation (Eg. "Chronic Active Hep B") ORMay be Completely Asymptomatic until Cirrhosis → Liver Failure 	Acute → Non-Specific Viral Symptoms: - Viraemia → Flu-like Symptoms (Fever, Malaise, Anorexia, Nausea, Arthralgia) - (90% of Hep B → Full Recovery) - (10% of Hep C → Full Recovery)	Epidemics Common Acute Hepatitis ONLY: - Viraemia → Flu-like Symptoms (Fever, Malaise, Anorexia, Nausea, Arthralgia) - Jaundice after 10days (**NB: 20% Mortality of Hep.E in Pregnancy)
Signs:	Vitals:	Vitals: Other:	Vitals: Other:
(10% of Hep B & 90% of Hep C) → Cirrhosis → Liver Failure: CLD (Clubbing, Leukonychia, Muercke's Lines, Mee's Lines, Xanthomata, Palmar Erythema, Bruising, Scratchmarks, Scleral Icteris, Hepatic Flap, Hepatic Encephalopathy, Xanthelasma, Hepatic Fetor, Gynaecomastia, Spider Naevi, Abdominal Distension, Caput Medusa, Testicular Atrophy, Ascites, Pedal oedema)	: (If Active → Fever, Tachycardia) If Subclinical → Normal Vitals. : Jaundice (Both Types), Small, Nodular Liver Signs of Portal HTN – (Telangiectasias, Caput Medusa, Ascites, Pedal Oedema, Hepatomegaly, Splenomegaly, Gynaecomastia) Hep. Encephalopathy	Acute: Fever, Tachycardia Jaundice (Intrahepatic Cholestasis :. Pale Stools & Dark Urine) +/- Hepatomegaly, +/- Splenomegaly, +/- Tender Lymphadenopathy Chronic:	: Fever, Tachycardia : Jaundice (Intrahepatic Cholestasis :. Pale Stools & Dark Urine) +/- Hepatomegaly +/- Splenomegaly +/- Tender Lymphadenopathy

	Gene	Genetic Liver Disorders:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Primary Biliary	Mid-Aged Females!!	Vitals:
Cirrhosis (AKA: "Chronic,	 Insidious Onset 	- Normal
Non-Suppurative Destructive	 Pruritis, then (Cholestatic) Jaundice 	Other:
Cholangitis"):	- Fatigue	Chronic Cirrhosis:
(Genetic Autoimmune)	- Hepatomegaly	- Jaundice, Ascites, Pedal Oedema
		- Clubbing, Leukonychia, Muercke's Lines, Mee's Lines, Xanthomata, Palmar
		Erythema, Bruising, Scratchmarks, Scleral Icteris, Hepatic Flap, Hepatic
		Encephalopathy, Xanthelasma, Hepatic Fetor, Shrunken Nodular Liver (Micro or
		Macro-Nodular depending on Aetiology), Splenomegaly, Gynaecomastia, Spider
		Naevi, Abdominai Distension, Caput Medusa, Testicular Atrophy, Ascites, Pedal oedema)
		Signs of Causes:
		- Mid-Age Female.
Gilbert's Syndrome:	- Asymptomatic	Vitals:
(Genetic; Benign)	 Occasional Mild Jaundice (Associated with 	- Normal
	Fasting/Infection /Stress/Exertion).	Other:
		 Occasional Jaundice Precipitated by Stress/Infection/Exertion/etc.
		Signs of Causes:
		- Jaundice + Young + Family Hx of Jaundice
Haemochromatosis –	 Initially Asymptomatic 	Vitals:
(Primary – Genetic; or	 Early – (Fatigue, Arthralgia, Loss of Libido) 	Other:
Secondary)	 Later – (Skin Bronzing, Abdo Pain, 	- Skin "Bronzing"
	Hepatomegaly, Liver Cirrhosis)	 Cirrhosis – (Jaundice, Bruising, Ascites, Oedema, etc.)
		- Other Complications:
		 Heart - Cardiomyopathy
		 Endocrine Glands – Failure of gland:
		 Joints - Arthritis (Iron Deposition in the Joints)
		Signs of Causes:
		 - (Acquired – Transfusions/Supplements/Haemolysis)

	Liver Disorders Ca	Liver Disorders Caused by Portal Hypertension:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Nutmeg Liver (AKA:	 Often Asymptomatic (incidentally dx on LFT) 	Vitals:
Congestive	 RUQ Pain (due to stretching of liver capsule) 	- Normal (+/- Low Vol Pulse due to RVF)
Hepatopathy):	- Abdo Distension (Ascites)	Other:
(Due to RH-Failure)		- ↑JVP with Large Pulsations (RVF), POSITIVE Hepatojugular Reflux, Tender Pulsatile
		Hepatomegaly, Caput Medusa, Ascites, Peripheral Oedema
		- Jaundice & Hepatic Encephalopathy
		Signs of Causes:
		- RVF (Tricuspid Stenosis/Regurg, Pulmonary Stenosis/Regurg)
Budd-Chiari Syndrome:	 RUQ Pain (due to stretching of liver capsule) 	Vitals:
(Due to Hepatic Vein	- Abdo Distension (Ascites)	- Normal (+/- Low Vol Tachycardia due ↓Venous Return to the Heart)
Obstruction/Occlusion)	- Nausea/Vomiting	Other:
		- 个JVP with Large Pulsations (RVF), NEGATIVE Hepatojugular Reflux, Tender
		Pulsatile Hepatomegaly, Caput Medusa, Ascites, Peripheral Oedema
		Signs of Causes:
		- Hypercoagulability (Eg. Polycythaemia), Thrombophilia, Leukaemia, Tumour

<u>Disease:</u> <u>TYPICAL</u>	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Hepatocellular (NB: EXT	(NB: EXTREME RISK in Chronic Carriers of HBV, HCV)	Vitals:
Carcinoma: (NB: EXT	(NB: EXTREME RISK in Cirrhotics)	- Fever
/er Tumour) -	RUQ Pain	Other:
ı	Fever, Anorexia, Weight Loss	 RUQ Tenderness/Mass, Hepatomegaly,
-	Ascites	- Anorexia/Weight Loss
NB: Susp	NB: Suspect HCC if you see these signs in a Cirrhotic.	- Ascites/Peripheral Oedema
		- (+/- Obstructive Jaundice)
		Signs of Causes:
		- Cirrhosis (Shrunken, Nodular Liver + Signs of Chronic Liver Failure)
(NB: ↑S	(NB: ↑Serum a-Fetoprotein)	 HBV/HCV Infected (IVDU/Homosexual/Tattoos/Prostitutes/etc)
<u>Liver Metastases:</u> - I	RUQ Pain	Vitals:
(Secondary Liver Ca's) - J	Jaundice (if Obstructive)	- Fever
	Fever, Anorexia, Weight Loss	Other:
(Most Common)	+ Previous Hx of Cancer	- RUQ Pain
		- Fevers/Sweats
		- Confusion
		- Jaundice
		 - (**Will eventually progress to show signs of Chronic Liver Failure)
		Signs of Causes:
		- Tynically from Colorectal Ca. Breast Ca. Lling Ca. Melanoma

	Biliary	Biliary Tract Disorders:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Biliary Colic:	NB: Cholelithiasis is typically Asymptomatic.	Vitals:
(AKA: "Cholelithiasis")	HOWEVER if Gallstones get Stuck → Biliary Colic:	 Pain → Tachycardia, Tachypnoea, Hypertension
	- (= Biliary Pain for <3hrs)	Other:
	- Severe, Colicky RUQ Pain	- Positive Murphey's Sign (RUQ pain in deep inspiration)
	 Radiation to the R-Shoulder 	- Obstructive Jaundice (Pale Stools, Dark Urine)
	 Fat Intolerance → Clay Stools 	Signs of Causes:
	(NB: Can → Perforation or Obstructive Pancreatitis)	Xanthelasma/Xanthomata (Hypercholesterolaemia), Pregnancy, Obesity, Rapid
Acute Cholecystitis:	(= Biliary Pain for >3hrs)	Vitals:
	 Severe, Colicky RUQ Pain 	- Fever, Tachycardia, Tachypnoea, Hypertension
	 Radiation to the R-Shoulder 	Other:
	 *Pain Associated/Exacerbated with FOOD 	- Positive Murphey's Sign (RUQ pain in deep inspiration)
	 *Nausea, Vomiting 	- Obstructive Jaundice (Pale Stools, Dark Urine)
		- Peritoneal Involvement – Rigidity/Guarding/Rebound
		Signs of Causes:
		- Xanthelasma/Xanthomata (Hypercholesterolaemia), Pregnancy, Obesity, Rapid
		Weight LOSS, Cystic Fibrosis
	<u>B</u> i	Biliary Cancers
Bile Duct Carcinoma	- Fever, Chills	Vitals:
("Cholangiocarcinoma"):	- Anorexia, Weight Loss	- Fever
	 Obstructive Jaundice 	Other:
		 Obstructive Jaundice - (Icterus, Dark Urine, Pale Stools)
Gallbladder Carcinoma:	- Females Common	Vitals:
(Commonly due to	- Abdominal Pain	- Fever
Chronic Gallstones)	- Anorexia, Weight Loss	Other:
	- TAIK Phos	
	(במנב טומפווטאט / רטטו רוטפווטאט)	- Cholelithiasis (Xanthelasma/Xanthomata, Nephrotic Syndrome)

		Congenital Pancreatic Disorders:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Pancreatic Divism:	 →→ Predisposes to Chronic Pancreatitis 	Vitals:
(CBD & Pancreatic Duct		Other:
FAIL TO FUSE)		Signs of Causes:
Annular Pancreas:	 →→ Duodenal Obstruction 	Vitals:
(Head of Pancreas		Other:
Encircles the		Signs of Causes:
Duodenum)		•
Cystic Fibrosis:	- Chronic Pancreatitis \Rightarrow (Malabsorption,	Vitals:
(Autosomal Recessive)	Diabetes Mellitis, Epigastric Pain, Vomiting,	- Tachycardia (Infection), Tachypnoea (Pulmonary Disease), Hypertension
(CFTR Gene)	Fatty, Liquid Stools)	(个Aldosterone due to Hyponatraemia), Fever (Infection)
	- Salty Sweat	Other:
	 Chronic Lung Obstruction/Infection 	- Clubbing, Thin (Malabsorption), Peripheral Cyanosis, Chronic Cough + Sputum,
		Salt-Frost on Skin,

		Salt-Frost on Skin,
	ΕΕ	Pancreatitis:
<u>Disease:</u>	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Acute Pancreatitis:	 Epigastric/Abdo Pain – Following <u>Large Meal</u> 	Vitals:
(50% - Gallstones	OR <u>Alcohol</u>	- Tachycardia (Shock), Hypotension (Shock), Tachypnoea (Shock)
40% - Alcohol)	- Vomiting	Other:
	- Shock	- Epigastric Tenderness,
		- **Peritonitis → Guarding, Rigidity, Rebound + Referred Shoulder Tip Pain
		- If Haemorrhage → (Cool Dry Peripheries, ↑CRT, Peripheral Cyanosis, Low-Vol
		Tachy, Dry Mucosae, Cullen's & Grey-Turner's Signs)
		Signs of Causes:
		- Alcoholism (Ataxia, Anaemia, Dupuytren's, Wernicke-Korsakoff Syndrome)
		- Cholelithiasis (Xanthelasma, Xanthomata)
Chronic Pancreatitis:	 Intermittent Epigastric Pain 	Vitals:
**Alcohol Abuse	 Weight Loss (Malabsorption) 	- ?
	- Steatorrhea	Other:
	 →Secondary Diabetes 	- Jaundice
		- Weight Loss
	(Can → → Pancreatic Cancer)	- Epigastric Tenderness
		Signs of Causes:
		- Alcoholism (Ataxia, Anaemia, Dupuytren's, Wernicke-Korsakoff Syndrome)

	Pano	Pancreatic Tumours:
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Gastrinoma (Zollinger	- Abdominal Pain	Vitals:
Ellison Syndrome):	- Dyspepsia	- Normal (unless hypovolaemic from diarrhoea)
(Adenoma/Gastrinoma)	 Chronic Steato-Diarrhoea (Inactivation of 	Other:
	Pancratic Lipase by ↑Acid)	- None
(Often in the Pancreas)		Signs of Causes:
	(NB: Malignant Potential)	 Abdominal Masses (but usually way too small to detect)
Insulinoma:	Hypoglycaemia:	Vitals:
(Pancreatic Tumour	 Hunger, Headache, Tremor, Anxiety, 	- Tachycardia
which produces too	Seizures, Coma, Death	Other:
much Insulin)		- Sweating, Tremor, Seizures, Coma, Death
		- Acanthosis Nigricans on Neck (Hyperinsulinaemia)
<u>Pancreatic</u>	NB: Asymptomatic until Advanced Diasease	Vitals:
Adenocarcinoma:	 Pain – Mid Epigastrium → Back 	- Fever,
(Ductal Tumour):	 Migratory Venous Thrombosis (Trousseau 	Other:
	Sign)	- Obstructive Jaundice, Epigastric Pain (+/- Radiation to Back), Courvoisier's
	 **Anorexia & Weight Loss 	Palpable Gallbladder,
	 **Extreme Fatigue 	- Low BMI, Migratory Venous Thrombosis (Trousseau Sign of Malignancy – Due to
	- **Depression	Hypercoaguability),
	 + Steatorrhoea, Malabsorption 	- 2º Diabetes
	- +/- Jaundice	Signs of Causes:
		- Smoking, Alcohol, Chronic Pancreatitis (Eg. CF/Alcohol), Diabetes
	(NB: 25% 1yr Survival; 5% 5yr Survival)	- Familial Syndromes – Eg. BrCA, Peutz-Jeger's Syndrome, Heriditary Pancreatitis
Pancreatic Cysts &	 If Small → Asymptomatic 	Vitals:
Pseudocysts:	 If Large → Abdo Pain/Back Pain/Jaundice (If 	 Fever (if Infected), Tachycardia (if Infected)
(Simple Cysts of the	Head.of.Panc)/Duodenal Obstruction	Other:
Pancreas)	 If Infected → Fever/Chills/Sepsis 	- Jaundice (if Biliary Obstruction), Epigastric Tenderness
		Signs of Causes:
		- Congenital
		- OR 2° to Pancreatitis (Acute or Chronic) (:. Alcoholic/Cholelithiasis)

Running Tally of Diseases Learned RESPIRATORY

	URTIs (Fever + Runny No:	URTIs (Fever + Runny Nose + Sinusitis + Pharyngitis + Cough):
Disease:	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
URTI:	- Fever	Vitals:
(Bacterial or Viral)	- Sore-Throat	- Fever, Tachycardia,
	 Runny Nose, Sneezing, Hoarseness, Cough 	Other:
	- Sinus Headache	- Runny Nose, Inflamed Tonsils, Inflamed Pharynx, Sputum (From Post-Nasal Drip),
		Hoarseness, Cough,
	+ Non-Specific Viral (Fever, Malaise, Headache,	- Cervical Lymphadenopathy
	Myalgia)	- NORMAL Chest Examination
Sinusitis:	- Fever	Vitals:
(Strep Pneumo)	 Sinus Headache (Facial Pain) 	- Fever, Tachycardia
	 Nasal Congestion/Obstruction 	Other:
	 Post Nasal Drip & Purulent Nasal Discharge 	- Runny Nose (+ Purulent Nasal Discharge), Nasal Congestion, Tooth Pain,
		Tenderness Over Sinuses, Headache Worse on Leaning Forward
	+ Non-Specific Viral (Fever, Malaise, Headache,	- Cervical Lymphadenopathy
	Myalgia)	- +/- Inflammatory Nasal Polyps, +/- Orbital Cellulitis
Tonsillitis:	- Fever	Vitals:
(GABS, Staph, HIB, EBV)	 Sore Throat + (Referred Ear Pain) 	- Fever, Tachycardia
	 Dysphagia, Odynophagia, Trismus (Jaw 	
	Spasm)	- Inflamed Pharynx, Enlarged Inflamed Tonsils (+/- Exudates)
		- Tender Cervical Lymphadenopathy
	+ Non-Specific Viral (Fever, Malaise, Headache,	Signs of Causes:
	Myalgia)	- Strawberry Tongue (SCARLET FEVER)
		- Palatal Petechiae, Overwhelming Fatigue, Splenomegaly (GLANDULAR FEVER; EBV)
		- Pseudomembrane on Tonsils & Pharynx (DIPTHERIA)
Epiglottitis:	- Fever	Vitals:
(HIB)	 Sore Throat, Dribbling (Dysphagia) 	- Fever, Tachycardia, (+/- Tachypnoea if Obstruction)
	- +/- Inspiratory Stridor & Dyspnoea	Other:
		- Dysphagia, Drooling, Pooling of Secretions, Inspiratory Stridor, Cyanosis
	+ Non-Specific Viral (Fever, Malaise, Headache,	Signs of Causes:
	Myalgia)	- Unvaccinated Child

URTI CONCLUSION – DIFFERENTIATING BETWEEN URTI's – (Their Distinguishing Features):

Typical URTI Symptoms:

Fever, Malaise, Headache, Cough

+ Specific Symptoms:

- Adolescent + Sore Throat + Lymphadeopathy = EBV (Glandular Fever)
- Toddler + Drooling Saliva = Epiglottitis (Haemophylis Influenza)
- > Photophobia + Neck Stiffness = Meningitis (Eg. Nesseria Meningiditis)
- Arthritis + New Cardiac Murmur after 2wks = GAB-Strep Pharyngitis → Rh-Fever/Rh-Heart Disease
- Hx of Recurrent Pneumonia + SOB = Cystic Fibrosis/Immunocompromised/Smoker
- SOB + Weight Loss = Tuberculosis (Mycobacterium Tuberculosis)
- Community Outbreak + Travel History = SARS (SARS-Associated Coronavirus)

	Bronchial Disorders (V	Bronchial Disorders (wheezy cough + Sputum +/ - Fever):
Acute Bronchitis:	- Fever	
(Rhinovirus)	 Productive, Wheezy Cough, +/- Dyspnoea 	- Fever, Tachycardia, Tachypnoea
		Other:
	+ URTI Symptoms (Sore-Throat, Runny Nose,	- End-Expiratory Wheezes
	Sneezing, Hoarseness)	Signs of Causes:
	+ Non-Specific Viral (Fever, Malaise, Headache,	- 2° to URTI
	Myalgia)	v/w
Bronchial Asthma	Asymptomatic unless during an "Attack":	Vitals:
(Variable Obstructive):	 Wheezy Dry Cough, 	- Tachypnoea, Tachycardia,
	- Dyspnoea	Other:
	- Anxiety	- Peripheral Cyanosis, Wheals, Hives, Rhinitis
		- Accessory Muscle Usage
	If Severe:	 Inspiratory Wheezes, Marked Expiratory Wheezes, Prolonged Expiratory Phase,
	- Exhaustion	- ↑Chest Expansion (+/- Hyperinflated Lung Fields)
	 Inability to Speak in Full Sentences 	- Reduced Breath Sounds (Silent if Severe)
		- NO signs of Consolidation (Normal ↑Fremitis, ↓Percussion & ↑Vocal Resonance)
		- (+/- Pulsus Paradoxus if Severe)
		Signs of Causes:
		- Signs of Atopia (Wheals, Allergic Rhinitis, Hives)
		- Family History

Bronchiectasis: (Chronic Bronchial Thickening & Dilation + Mucus Accumulation due to Mucociliary)	Chronic Bronchitis (Wet): (+/- Emphysema)	Emphysema (Dry):
 Wheezy Productive Cough Copious Purulent Sputum (Green/Yellow) (+/- Haemoptysis) 	 Blue Bloaters: Wet, Wheezy Productive Cough Chronic Sputum Production (>3mths/year for >2years) Severe Dyspnoea Oedema 	Pink Puffers: - Wheeze - Severe Dyspnoea - Weight Loss - (+/- Peripheral Oedema & Ascites in Corpulmonale)
 Vitals: Tachypnoea, Tachycardia, (+/- Fever if Infection) Other: Clubbing, Cyanosis, Cachexia, Foul-Smelling Sputum (Sometimes Haemoptysis) Coarse Pan-Inspiratory Crackles, End-Expiratory Wheezes (+/- Cor-Pulmonale if Severe) Signs of Causes: **Cystic Fibrosis (Clubbing, Peripheral Cyanosis, Sputum, Salty Frost, Wasting) 	 Vitals: Tachypnoea, Tachycardia Other: (NB: Does NOT cause Clubbing or Haemoptysis) Obese Patient, Gross Cyanosis (Central & Peripheral), Cor-Pulmonale (Ascites, Oedema, Cyanosis, ↑JVP) Tachypnoea, Accessory Muscle Usage, Intercostal Recession, Tripoding (Stooping), Pursed-Lip Breathing, Barrel Chest ↓Chest Expansion, Positive Hoover's Sign, Tracheal Tug Hyperinflated Lung Fields, Hyperresonant Percussion ↓Breath Sounds, End-Expiratory Wheezes (Bronchial Disease) Signs of Causes: Heavy Smoking (Tar Staining, Smoke Smell, Yellow Teeth, Leuko/Erythroplakia) 	 Vitals: Tachypnoea, Tachycardia Other: (NB: Does NOT cause Clubbing or Haemoptysis) Thin (No Oedema), Pink (No Cyanosis), Tachypnoea, Accessory Muscle Usage, Intercostal Recession, Tripoding (Stooping), Pursed-Lip Breathing, Barrel Chest, ↓ Chest Expansion, Hoover's Sign Positive, Tracheal Tug Hyperinflated Lungs Fields, Hyperresonant Percussion (Gas Trapping) ↓ Breath Sounds, Early Expiratory Crackles (Small Airway Disease), (+/- Wheeze). (+/-↑JVP, Ascites, Oedema if RVF Due to Cor-Pulmonale) Signs of Causes: Heavy Smoking (Tar Staining, Smoke Smell, Yellow Teeth, Leuko/Erythroplakia) (If Young Age - Think Congenital a1-Antitrypsin Deficiency.)

	Chest Infections	Chest Infections (Fever + Cough + Dyspnoea):
<u>Disease:</u>	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:
Pneumonia	 Acute High Fever + Chills + Rigors 	Vitals:
(Consolidation):	 Productive Cough (+/- Haemoptysis) 	- Fever, Tachycardia, Tachypnoea
	 Pleuritic Chest Pain 	Other:
		- Appears III: P/C-Cyanosis, Exhaustion, Dyspnoeic, Respiratory Distress,
		- Consolidation: Area of ↓Expansion, ↑Tactile Fremitis, Dull Percussion, Bronchial
		Breathing, ↑ Vocal Resonance.
		- Bronchial Breath Sounds, Pleural Friction Rub, Pan-Inspiratory Crackles
		Signs of Causes:
		- Broncho Pneumonia → Diffuse, Patchy Consolidation
		 Lobar Pneumonia → Localised Consolidation
Melioidosis:	Presents Similar to TB but with Pneumonia:	Vitals:
(Burkholderia	 PUO (Fever, Night Sweats, Chills, Rigors) 	- Fever, Tachycardia, Tachypnoea
Pseudomallei)	 Skin Lesions (Abscesses/Ulcers) 	Other:
	 Pneumonia (Dyspnoea, Cough, Sputum, 	 Cyanosis, Dyspnoea, Skin Lesions (Melioid Abscesses/Ulcers), Lymphadenopathy,
	Pleuritic Chest Pain)	- Consolidation: Area of ↓Expansion, ↑Tactile Fremitis, Dull Percussion, Bronchial
	(May → Sepsis)	Breathing, ↑ Vocal Resonance.
		- Bronchial Breath Sounds, Pleural Friction Rub, Pan-Inspiratory Crackles
		Signs of Causes:
		- Living in Tropical NQ
Pulmonary	 Fever, Night Sweats, 	Vitals:
Tuberculosis:	 Chronic Productive Cough (+/- Haemoptysis) 	- Fever, Tachycardia, Tachypnoea
	- Weight Loss	Other:
	 +/- Pleuritic Chest Pain 	 Cachexia, Dyspnoea, Lymphadenopathy, Hepatomegaly, Splenomegaly,
		- (NB: Cavitation Can → Pleural Effusion (Stony Dullnes), Haemoptysis, Atelectasis)
		Signs of Causes:
		- Immunocompromise (HIV), Immigrant, Overseas Travel,

		Constant (Proprieta : Lists Officioss):
Pulmonary Embolism:	- Sudden, Severe Dyspnoea	Vitals:
	 Pleuritic Chest Pain 	- Fever, Tachycardia, Tachypnoea, Hypotension (LVF)
	- (+/- Haemoptysis)	Other:
	- (+/- Syncope)	- RVF → Cool Peripheries, ↑CRT, Peripheral Cyanosis, ↑JVP, RV-Heave, Tricuspid
		Regurg Murmur
		- ↓Resp.Function → Central Cyanosis
		- Pleural Friction Rub,
		Signs of Causes:
		- DVT – Calf Pain, Calf Tenderness, Calf Swelling/Erythema, Pedal Oedema.
		- (B/G of Pregnancy, Air Travel, Recent Surgery, Clotting Disorders)
Pulmonary	RVF Secondary to Pulmonary Hypertension:	Vitals:
Hypertension &	 COPD: Dyspnoea, Cough, Wheeze 	- Tachycardia (if LVF), Tachypnoea (if COPD/LVF), Hypotension (If LVF), Afebrile
Corpulmonale:	 Pul HTN: Cough/Dyspnoea/PND/Orthopnea 	Other:
(LVF, COPD)	- RVF: Swelling (Legs, Abdo), Chest Pain	- If LVF: Cool Peripheries, 个CRT, Peripheral & Central Cyanosis, Low Volume Pulse
		- If COPD: Clubbing, Tar Staining, Peripheral & Central Cyanosis
		Loud S2 (closure of Pul.Valve) Abdojugular Reflux Positive, Portal Hypertension
		(Tender Hepatomegaly), Ascites, Sacral/Pedal Oedema,
		Signs of Causes:
		- LVF, Smoking, COPD, IPF

	<u>Pleural Disorders (E</u>	Pleural Disorders (Dyspnoea + Pleuritic Chest Pain):
Pneumothorax	Similar Presentation to Pulmonary Embolism:	Vitals:
(Including Tension Px):	 Sudden, Severe Dyspnoea 	- Tachycardia, Tachypnoea, Hypotension (Mediastinal Compression),
(Air in Pleural Space)	- Pleuritic Chest Pain	Other:
	- (+/- Syncope)	- Cyanosis, Dyspnoea, Anxiety, Respiratory Distress,
(Emphysema,		- Peripheral Shutdown (个CRT, Cool Pale Peripheries, Peripheral Cyanosis, Low-Vol
latrogenic, Trauma,		Tachycardia)
Spontaneous, etc)		 Tracheal Deviation AWAY from Affected Side (If Tension Ptx),
		- @Site of Pneumothorax: ↓Chest Expansion, ↓Tactile Fremitis, Hyperresonant
		Percussion, Absent Breath Sounds, Absent Vocal Resonance.
		 - (IF KINKING OF GREAT VESSELS → Syncope, Negative Abdojugular Reflux)
		Signs of Causes:
		- Signs of Trauma, Signs of Smoking (Emphysema), Mechanical Ventilation,
Atelectasis:	- Dyspnoea	Vitals:
(Collapsed Lung):	- Chest Pain	- Tachypnoea
(Due to Airway		Other:
Obstruction by Foreign	(May Quickly → Pneumonia)	- Dyspnoea,
Object or Cancer)		- Tracheal Deviation TOWARDS the Affected Side.
		- @Site of Atelectasis: ↓Chest Expansion, ↑Tactile Fremitis, Dull Percussion,
		Bronchial Breath Sounds, 个Vocal Resonance
		Signs of Causes:
		- Mucous (Asthma, Cystic Fibrosis), Foreign Body Aspiration, Bronchial Ca (Cachexia)
Pleural Effusion:	 Sudden Severe Pleuritic Chest Pain (Worse 	Vitals:
	on Inspiration)	- Fever, Tachypnoea, Tachycardia,
	- Dyspnoea	Other:
	- Dry Cough	- Tracheal Deviation AWAY from Effusion
		- Displaced Apex Beat AWAY from Effusion
		- @ Site of Effusion: ↓Chest Expansion, ↓Tactile Fremitis, STONY DULLNESS,
		↓ Breath Sounds, ↓ Vocal Resonance
		Signs of Causes:
		- NB: ALWAYS Suspect Mesothelioma
		 Portal Hypertension, Hypoalbuminaemia (CLD, Nephrotic Synd), Congestive L-
		Heart Failure, Lung Injury, Lung Infection.

	Disorders of th	Disorders of the Pulmonary Interstitium: <u>eber the 3x 'Cs' = Cough, Clubbing, Crackles!!</u>
Interstitial Lung	(On a Background of Occupational Exposure)	Vitals:
("Pneumoconioses")	- Dyspnoea (+/- Cyanosis)	Other:
		- Clubbing, Dyspnoea, Cyanosis, Cachexia, Accessory Muscle Usage, Intercostal
(Inhaled Dusts:		Recession, Tracheal Tug.
Anthracosis, Asbestosis,		- Cough
Silicosis)		- ↓Chest Expansion,
		- Fine Pan-Inspiratory Crackles
		- + Restrictive Pulmonary Function Tests.
		Signs of Causes:
	(Asbestosis is most severe and can →Mesothelioma	ı
	→ Pleural Effusions, Metastases)	Sjogren's)
Idiopathic Pulmonary	Gradual Onset of Symptoms	Vitals:
Fibrosis:	 Progressive Dyspnoea 	- Tachypnoea
(Idiopathic)	- Dry Cough	Other:
		- Hypoxia/Cyanosis → Clubbing
	(Very Poor Prognosis – 3yrs – No Treatment)	Signs of Causes:
		- Restrictive Pattern on Pulmonary Function Tests (↓VC, ↓TLC)
Sarcoidosis:	Systemic Disease – (Lungs, Eyes, Skin, LNs, Liver &	Vitals:
(Idiopathic Immune →	Spleen)	- Tachypnoea
Non-Caseating	 General: Fatigue, Weight Loss, 	Other:
Granulomas)	 Lungs: Dyspnoea, Dry Hacking Cough 	- Dyspnoea, Cyanosis, Cachexia, Accessory Muscle Usage, Intercostal Recession,
	- Eyes: Uveitis	Tracheal Tug.
	 Skin: Erythema Nodosum (Nodules on 	- Cough
	Shins), Lupus Pernio (Red plaques),	- ↓Chest Expansion,
	Hypertrophic Scars	- Fine Pan-Inspiratory Crackles
	 LNs: Lymphadenopathy 	- + Restrictive Pulmonary Function Tests.
	 Liver/Spleen: Organomegaly MSK: Arthralgia Finger Swelling 	
	- Heart Block Syncone Cornulmonale	
Wegener's	- Many Non-Specific Symptoms (Arthralgia,	Vitals:
Granulomatosis:	Myalgia, Night Sweats, Weight Loss, Red	- Fever, Tachycardia, Tachypnoea,
(Autoimmune)	Eyes, URTI, Chronic Ear Infections, Fever)	Other:
	 BUT Relevant as it can → Pneumonia: 	- Cachexia, Epistaxis, Nasal Sores, Various Skin Lesions, Haematuria, Conjunctivitis,
	o Dyspnoea	Chest Pain, Cough (+/- Haemoptysis), Dyspnoea, Weakness, Wheezing.
	Cough (+/- Haemoptysis)	

Wediastinal	- Facial Pietnora	Vitals:
Compression:	 Supraclavicular Lymphadenopathy 	- Depends
(Lung Ca, Lymphoma,	- Hoarseness	Other:
Retrosternal Goitre,	- Horner's Syndrome	- SVC Obstruction: Facial Cyanosis, Facial Plethora, Positive Pemberton's,
Aortic Aneurysm)	- Dyspnoea	Periorbital Oedema, Non-Pulsatile JVP
		Hoarseness
		 Nerve Compression: Horner's Syndrome (Unilateral Ptosis, Anhydrosis, Miosis, Enophthalmos,
		 ○ Unilateral Phrenic Nerve Paralysis → Unilateral Diaphragm Paralysis →
		Asymmetrical Chest Expansion.
		Signs of Causes:
		 - Thyroid Gland (Retrosternal Goitre) - Virchow's Node (R-Supraclavicular Lymphadenopathy) for Lung Cancer.
Lung Cancers:	Often AsymptomaticBut may →:	Vitals:
	 Fever, Night Sweats, Weight Loss, Fatigue Dyspnoea 	- Fever, Tachypnoea (late stages) Other:
	- Cough (+/- Haemoptysis) (+/- Wheeze if	- General Signs:
	Bronchial involvement)	 Anorexia, Clubbing, HPOA (Wrist Tenderness), Intrinsic Hand Muscle
	(Don't Forget +/- Paraneoplastic Syndrome)	Wasting, Virchow's Node (R-Supraclavicular Lymphadenopathy), Axillary
		SVC obstruction Demberton's Sign (Facial Diethora)
	○ Carcinoid Syndrome (↑ Serotonin)	Sympathetic Nerve Compression Deficiency Horner's Syndrome
	o Gynaecomastia (个Gonadotrophins)	(Unilateral Ptosis, Anhydrosis, Miosis, Enophthalmos, Laryngeal
		 ○ C8/T1 Nerve Lesion → Intrinsic Hand Muscle Weakness & Wasting
		- If Mesothelioma →
		 Pleuritic Chest Pain
		o Pleural Effusion
		o Tender Ribs
		- If Bronchocarcinoma →
		 Wneezing (Partial Bronchial Involvement) Atelectasis (Complete Bronchial Obstruction)
		o Haemoptysis
		Signs of Causes:
		- Smoker, Miner, Sand-Blaster, Builder,

Summary of Important Points for OSCE:

Causes of Dysphagia:

- Types of Dysphagia:
 - With Solids Only = Mechanical Obstruction (Hiatus Hernia/Strictures/Plummer Vinson Web from Iron Deficiency/Tumours)
 - With Solids & Liquids = ↓Motility (Achalasia/Neural[Vagus Nv]/Scleroderma)
 - With Liquids Only = Pharyngeal Disorders (Globus Pharyngeus)
- Causes of Dysphagia:
 - Oesophagitis: (Infection in Imm.comp Or Eosinophilic/Allergic)
 - Achalasia: (Oesophageal Aperistalsis)
 - o Mallory Weiss Syndrome Tear: Oesophageal laceration (Gluttony, Coughing, Bulimia)
 - Oesophageal Varices: (Portal HTN, Cirrhosis)
 - Hiatus Hernia:
 - o GORD, Barrett's Oesophagus: (Obesity, Pergnancy, Alcoholism)
 - Oesophageal Cancer: (Smoking, Alcoholism, Chronic GORD)

Causes of Epigastric Pain:

- Gastritis: (Alcoholism, Infection, Pernicious B12 Anaemia)
- Peptic Ulcer Disease: (NSAIDs, H.Pylori, or Gastrinoma/ZE-Synd)
- Gastric & Duodenal Cancers: (H.Pylori or Familial)
- Acute Pancreatitis: (50% Gallstones, 40% Alcohol)
- Chronic Pancreatitis: (**Alcohol Abuse)

Causes of Acute Abdomen:

- Appendicitis:
- Diverticulosis/Diverticulitis:
- Acute Cholecystitis:(AKA: "Cholelithiasis")
- Acute Pancreatitis: (50% Gallstones, 40% Alcohol)
- Chronic Pancreatitis: (**Alcohol Abuse)
- <u>Pseudomembranous Colitis:</u> (Clostridium Difficile Overgrowth due to Antibiotic → ↓Gut Flora (C.Diff is Directly Cytotoxic))
- Bowel Obstruction

Causes of Jaundice:

Causes of Jauffulce.			
Background Info on Jaundice:			
<u>Disease:</u>	TYPICAL Symptoms/Presentation:		
Unconjugated	Jaundice + Neonate	→ Physiological Neonatal Jaundice	
(Prehepatic/Haemolytic)	Jaundice + Dyspnoea + Fatigue	→ Haemolytic Anaemia	
Jaundice	Jaundice + Young + Family Hx of Jaundice	→ Gilbert's Disease.	
	Jaundice + Young + Malaise	→ Hepatitis	
	Jaundice Epidemic	→ Hep A Virus	
	Jaundice + Recent Shellfish Consumption	→ Hep A Virus	
	Jaundice + Hx of IVDU/Injections/Tattoos	→ Hep B/C Viruses	
	Jaundice + Sodomy/Prostitution	→ Hep B Virus	
	Jaundice + Elderly + Weight Loss	→ Carcinoma	
Conjugated	Jaundice + Elderly + Weight Loss	→ Carcinoma	
(Posthepatic) Jaundice	Jaundice + Abdo Pain	→ Biliary Obstruction (Gallstones)	
	Jaundice + 50yr old Woman	→ Priamry Biliary Cirrhosis	
	Jaundice + Dyspepsia + Steatorrhoea	→ Head of Pancreas Tumour	
	Jaundice + Fevers/Rigors	→ Cholangitis or Liver Abscess.	
General Signs of Liver	Jaundice, Bruising, Scratchmarks, Ascites, Oedema, Hepatic Encephalopathy, Hepatic Flap		
<u>Disease</u> :	Leukonychia, Muercke's Lines, Xanthomata, Palmar Erythema, Xanthelasma, Fetor		
	Gynaecomastia, Spider Naevi, Testicular Atrophy, Nodular Liver, Hepato/Splenomegaly,		
	Abdominal Distension, RUQ Tenderness, Caput Medusa, Ascites, Pedal oedema		
	Signs of Causes: IVDU, Alcoholism, Tattoos, Skin Pigmentation (Haemochromatosis),		
	Cachexia (Ca), Xanthelasma/mata (Chronic Biliary Obstruction)		

Inflammatory (Autoimmune) Bowel Diseases:

Inflammatory (Autominute) Bowel Diseases.			
Inflammatory (Autoimmune) Bowel Diseases:			
<u>Disease:</u>	TYPICAL Symptoms/Presentation:	TYPICAL Clinical Signs:	
Crohn's Disease:	 Typically Starts @ Ileocecal Valve 	Vitals:	
(Mouth → Anus)	(RIF)	- Fever,	
(Patchy)	Common Symptoms (Both CD & UC):	Other:	
	- **Abdominal Pain/Severe Internal	- Clubbing	
	Cramps	 Mouth Ulcers & Anus Involvement, 	
	 **Vomiting/Diarrhoea *(Porridge- 	 GI Bleeding → Anaemia (Pale Nails, 	
	like, Fatty)	Koilonychia, Palmar/SC Pallor, Glossitis)	
	 **Rectal Bleeding 	Signs of Causes:	
		 Autoimmune (Arthritis, Iritis, Pyoderma 	
	(+ Fever, Weight Loss)	Gangrenosum, Primary Biliary Cirrhosis)	
<u>Ulcerative</u>	 Typically Starts @ Rectum (LIF) 	Vitals:	
Colitis:	Common Symptoms (Both CD & UC):	- Afebrile,	
(Typically affects	 **Abdominal Pain/Severe Internal 	Other:	
Colon)	Cramps	- Clubbing	
(Continuous)	 **Vomiting/Diarrhoea *(Bloody & 	 No Mouth or Anus Involvement, 	
	Mucus – but NO Pus. {Not	 GI Bleeding → Anaemia (Pale Nails, 	
	Dysentery])	Koilonychia, Palmar/SC Pallor, Glossitis)	
	- **Rectal Bleeding	Signs of Causes:	
		- Autoimmune (Arthritis, Iritis, Pyoderma	
	(+ Tenesmus)	Gangrenosum, Primary Biliary Cirrhosis)	