OSCE WEEK 2

Q1: This is a 11 year old child who presents to you at the Casualty.



- a) Describe what you see.(2mrks)
- b) Perform an Eye Exam on this Child(8 mrks)
- c) On further evaluation, the above presentation was acute on onset and progression(2 week history). List the most likely causes of this presentation.(5mrks)
- d) Outline the priority investigations you would carry out.
 (3mrks)

Question 1. 1) Unilateral Left eye proptosis lexophthalmos. - Dystopia. - focial asymetry. - Lid Hyperemia. LId Edena.

General Condition of Patreit. - Jan general condition, resp clistress, net Aron, wasting, delighted, Initability, rest less. - JACCLOWD v VItall. General impection à facial & Eye assymetry, position and movements of eye, general (pthisse, propose) applicance of each eye; visual aids, strabismus, squanting, orbital swellings, masses, scars, redness, hyperemia, discharge Hyphema, hypopron, Local Inspection: compare both eyes ormultaneously. O Gye Brows - Normal posthon.
- Symmetry on both eyes. DEye 11de V l'id edemas Persorbital Ederra Egelaches palpebral farmes, medial & scateral carthus, lumbus ~ lid retraction, ptosis, Ird lag. /mitted - Ectropion - Entropion. - late blinking, stellwag sign-~ lagophthalmos ~ 5km tranois (Basal Cell Ca & SQ cell Ca ayest lower eyelds. ~ Xunthelasma - fat deposits in long-standing Hyperchokertenders. 3 Lacomal gland & Inflamation - acute vi chome dacorderstis Masses / Tumorsrexussive material Epiphora) v Dry eye - Schmas test. ©Kenyatta National Hospital revised 2014. Vision: A world class patient-centered specialized care hospital.

Size & PILHIN of Puncta.

E Competion - Chemosis - Diffuse or walked. - Injection - Diffuse or totalized. (4) Comea - ul coration - clear or Hary Osclera - auteria segual - typhene, opuestros - Hary; Opachies - dryness (D) I.15 -- Kerntopathy. 8 Propils - Propillony replex. - Donet t Conversued.

- RAPD Francis afferent pupillary Defect)

- Size of pupil's aurisocord (fixed allated pupil)

- Swinging light replex Carlined > Ins, chowed & chray body. (10) lens => state Sit lamp exam. (1) past seg = fundoscopy. - Sequence of Opthedroscope exis 27 Retwa 3 = Optio DAK. - Macula =) Optio Perve. Perform (D) Visual Acquity, Vanal field, Celaux Vision & Accomedation (13) Orbit. - Pulpation, Eye mort exam, Optic Mene, Tragerand Nene for sexton. 1 Prophosis - auteror displayment of Eyeball from the orbit socket.

- axial or Non-axial = postopia, enostopia,

- unilateral or Bilateral(exertification)

- Enophilial - Enophthalmos. (9) Measuring prophisa -: Hertel Exophthalmometry. # : Belond petret / Cabore the atobead. & Pulscotile: Bruit en ausuitation at lestered will of orbit: (d) Cause : mass growth => Describe. [consistency, colour, tendemess, around, margins, mostly] @ Retropulsion test: differentiate than soft & hard masses. Distal frauma:

Blowert us Penetrating - Globe Injury < penetrating - Entry only; No exit.

Blowout usban from #; prolapse of orbital confests. · Restricted villar que reverent. · Parpation.

(C) Causes of unitateral Prophosis in a Child. (1) Rapidly Progressing. O-orbital cellulitis R - Rhabdomy asarcoma R-Retroblationa/Retrobulbar Hernowage. O-Orbital Lymphona M-MHS O-Orbital Retinublistoma. 5-Sanoma-Ewing's /oster 1-Idiopathic (Non-specific injitative disease) L- Leukemia. (d) Priority Invx. V Orbital Uls. V MRI. V Biopsy.

(2) Slow Progressing.

V Optic New Gliansa

V Schwansensa / Fibromas

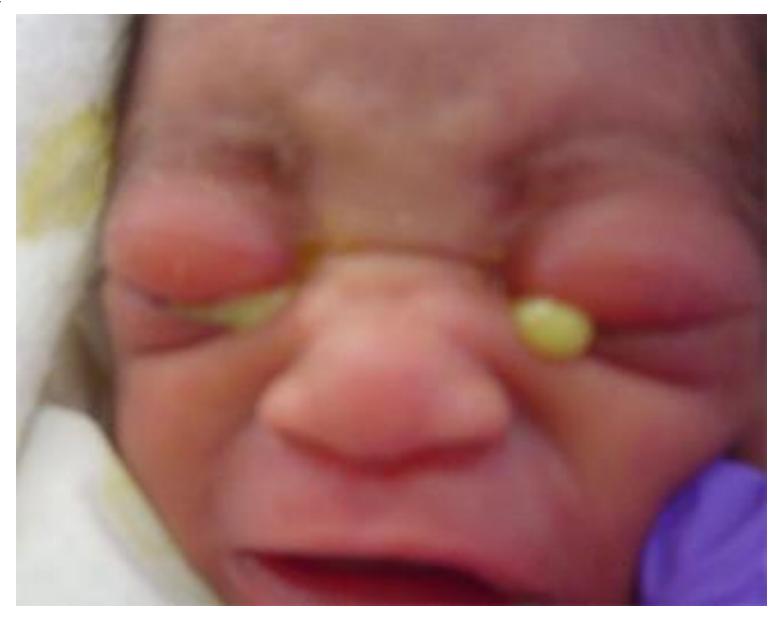
V Orbital Varices.

V Fibrous clyplasia

V Capillary herrangiamas.

Lymphangiomas.

Q2:



a) Spot Diagnosis?

b) List the various ocular manifestions/signs associated with this presentation.

c) List the risk factors associated with the development of above condition?

00		
(Da)	Answer	
Ch.		

4) Opthalmia Neonatorum. - Neonatal Conjuctivitis.

- 6) Bilateral purulent conjuctivitis/Discharge Comeal uluration/scarning. Conjuctival chemosis.

 - Comeal Perforation.
 - L Endophthalmitis.
 - Epiphora.
 - Lid hyperemia.
 - Lid Edema.
 - Conjuctival Injection.
 - Crusting.
- C) maternal birth canal myx with STIIs.
 - PROM
 - Low Birth Weight.
 - Prolonged Labour.
 - Prematurity / Pretem.

Q1.



- a) Interpret the Xray.
- b) Describe the clinical presentation of this fracture.
- c) Classify the fracture.
- d) What is the definitive management?

- 1.a) Biodata
- b)Quality of xray(2 joints, 2views, 2 opinions, 2 limbs, 2 occasions, 2 evaluations.)
- c) Continuity of bone(proximal femur #)
- d) Pattern of fracture(Comminuted, wedge shaped)
- e) Mechanism of Injury(Twisting,compression, bending, tension, High energy, Low energy, direct injury, Indirect injury)

- Clinical presentation.
- Pain, swelling, limb shortening, open/ closed injury.+ FADIR.
- Winquist and Hansen classification is used for comminuted
- fractures.
- Displacements In Fracture Shaft Femur.
- Proximal Third Fracture
- Proximal fragment flexes, abducts and externally rotates
- because of gluteus medius and iliopsoas
- Distal fragment is adducted (adductor longus, minimus,
- magnus and pectineus).
- Middle Third Fracture
- Proximal fragments abducts relatively less because of balancing
- effect of gluteus medius and adductors; but flexion and external
- rotation by iliopsoas persists.
- Distal fragment is adducted.
- Distal Third Fracture
- Proximal Fragment adducts (because adductor over power
- gluteus medius because of long lever arm). Distal fragment is
- hyperextended by gastrocnemius.
- "Lower limb injures associated with maximum shortening are
- posterior dislocation of hip > fracture shaft femur > Fracture
- subtrochanteric femur > Intertrochanteric fracture > Fracture
- Neck Femur".

Definitive management.

a)Traction.

Skeletalvtraction(russels). Perkins . Once fracture is sticky , discontinue traction and allow ptnt weight bearing in cast or function bracing or plaster spica.

- b) ORIF. (plating, Knail, Interlocking Nail)
- c) EXOFIX. (Severe open #, Multiple Injuries, Severe bone loss)

Name the fixation technique shown. Give 2 shortcomings of this technique.



- Bridge plate technique.
- It does not resist bending force. Unstable.
- It is very invasive.



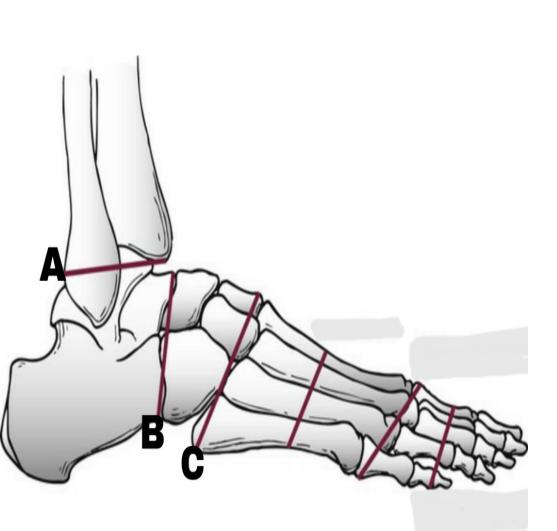
a). Name the technique shown.

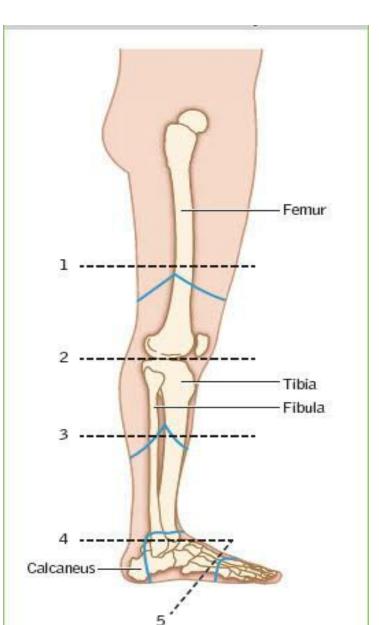
b) Give one indication.

• Gallows traction.

• Fracture shaft femur in children above 5 yrs.

Name the amputations at the levels shown.





- A Symes
- B Chowparts
- C Lishfranc.
- 2 Knee disarticulation

- a) List the parameters in MESS score.
- b) 3 indications and 3 complications of amputations
- c) List 6 surgical principles considered during amputation.

- a) Shock, Age, Limb Ischemia, Skeletal and soft tissue injury.
- b) Dead or dying limb, Damned Nuisance, Dangerous limb.
- c) Pain(phantom limb), Psychological, Stump infections, others.
- Surgical Principles.
- 1. Design flaps
- 2. Ligate vessels
- 3.Retract and cut nerves. Cushion under muscle or fat.
- 4.Myoplasty. Myodesis.
- 5. Cut bone.
- 6. Suture skin flaps together.

• Perform a shoulder examination.

In Freduction - wash hande - Explain examination - Take consent. Exposure and position Ask for any pain. LOOK: LOOK ground Ita bed for aids & adaptations Inspect: a) Anterior: - Scars Co - Assymetry of Shoulder - Scoliosis - Swellings - Muscle wasting b) Lateral - Scars c) Posterior Scars / deformity - Assess trepezius bulk - Para vertebral muscles Feel: Temperature of shoulders Paljate Component of the Shoulder girdle Strue - clavicular Joint clavicle - Acromioclavicular joint - Coraccid process Head of humerus Spine of Scarpular Move: D -put hands behind your head dis (External rotation of abduction) Thi put your hands as for up Your back as possible (Internal rotation) ure bvio - Flexion (Forward & upwards)
- Extension (Normal 150-180° osed fix - Extension (Behind and straight) casts ulla Wormal 400 - Abduction (Normal = 1800 scre - Adduction ones - External soletion CHOICE elbows on trunk's flexed de at 90° - mover tone arma outward (80-900) - Internal rotation - Palpute the Interior worder of the scapular - DO PASSIVE MOVEMENTS AS ABOVE

inc SPECIAL TECTS. (Empty can test) re Function pineters Des es. etr. Arm abducted 900 iar internally rotate it & push down on the arm as patient resist arti bo ure 2. The painful arc (impingement syndrome) 2'5 Preserve abduction of the otir arm to 14's Maximum T Point of abduction -Tr Then lower the lon Slowly back to neutal ons Position: pais (60-120) Mas 3. External rotation against seve erip resistance CASSESSET function of ition ych Infrespiratus. in; Elboir flexed at 900 Slight abd nation external rotation 4. External rotation in Pai abduction Rec (function Inco of teres minor) verg 00° abduction; bend aling the elbow 90° -> break Parively externally retere ntract the shoulder to max. roper arly F Internal rotation ransfe anstil against resistance Prical (Gerber (1ft off test) t that etc - Subscapularis An Function) nbolis Dorsum of hand on lower. ports Forto A 1127 W 1+ back mina it away from , i.e. the back r no. on - 1 To complete examination 3 - T. ul in -Thank penent wash nands - Summerize findings DO Antèris- & Posterion Drawertest @ Apprehension Test Inferior instability Test (Sulcus test) 16+13



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- QUESTIONS
- Interpret the above radiograph.
- Describe how you will manage this patient.
- What are the possible complications.

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- ANSWERS
- QSN 1- POSTERIOR DISLOCATION OF THE LEFT HIP
- Post dislocation MC 90%
- Presentation- FADIR+ SHORTENING and femoral head can be palpated posteriorly(gluteal).
- Vascular sign of Narath is positive.
- NB. First interpret b4 stating the pathology.

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- QSN 2
- The proper treatment of a dislocation or fracture-dislocation
- of the hip depends primarily on the type of injury, but regardless
- of the type of dislocation, some general guidelines apply: (1)
- long-term results are directly related to the severity of the initial
- trauma; (2) reduction, open or closed, should be performed within
- 12 hours; and (3) only one or two attempts at closed reduction
- should be made; if these fail, open reduction is indicated to prevent
- further damage to the femoral head.
- REDUCTION.
- Open under GA, one assistant needed.
- Closed reduction; 3 assistants
- Closed reduction Manoeuvres
- 1.Stimpsons gravity method
- 2.Allis maneuvre
- 3.Bigelows maneuvre
- 4. East Baltimore maneuver
- NB. Familiarise yourselt with one maneuver.

- POST REDUCTION MANAGEMENT
- Depends on severity.
- At leasts 2wks of traction. The mobilise on crutches but NO weight bearing till 6wks or 12wks if associated with acetabular fracture.
- CT scan is the best invex to judge dislocations.
- Confirm with imaging (xray) immediately after reduction.

- QSN 3
- Early complications
- Sciatic nerve injury, vascular injury(sup gluteal artery) and associated # femoral shaft.

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- LATE COMPLICATIONS
- Avascular necrosis, myositis ossificans, OA and unreduced dislocation.

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- Diagnosis and 3 findings.
- Hirschprungs disease (aganglionic megacolon). Proximal dilatation, distal constriction, funnel shaped narrowing tranzition zone.
- Signs and symptoms: abdominal distension, Pain, vomiting, constipation, empty rectal vault on DRE with spurt of flatus and stool upon withdrawal..
- Histopathological findings: Aganglionic segment, Hypertrophied nerve bundles.



- Inguinoscrotal Swelling.
- DDX: Indirect inguinal hernia, Infantile hydrocele, Varicocele, testicular tumor, undescended testes, Epididymoochitis.

Phimosis.

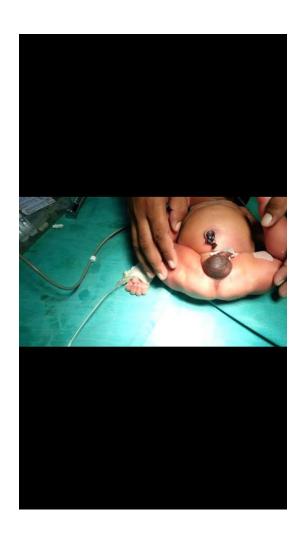




Hypospadias.

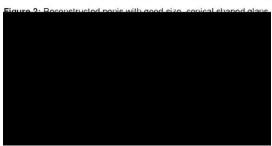


• Unilateral left sided cleft lip and palate.



• Imperforate anus.





• Hypospadias.



- Double bubble sign.
- Duodenal atresia.



- Meckels Diverticulum.
- Complications:
 Ulcerations, Bleeding,
 Perforation,
 Diverticulitis.

- A) Muscu Relaxants mes.

 I felaxation of voicel cords of alvow passinge of
 a tracheal time of diophragm

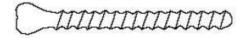
 I Relaxation of abdominal minutes. Always have
 patients Pesp assisted or Controlled.
- 6) Classification:
- WNon-Depolarising (competitive) runsele relaxante
 - v Compete with Acetylcholine for receptor sites to @ the
 - · Action Perersed by Acetycholines terase eg Neostigmine
- eg Competitive: (Generally Slower than Swamethonium).
 - (1) Aminosteroid Group Pancurium. Rocumnium, Veuromium
 - (2) Benzylisoquinolinium -> Atracunium, Cistacunium, Gallamine,
- (ii) Depolarizing Succingleholine
 - * Rapid onset of action -> Tracheac intubation

MOA:

- (9) Phase 1 block (Depolarizing) -
- ch) Phace 2 black (Desensitizing)
- SIE: Life threatening Monignant hyperthemia,
 Antidote > DANTERNENT.

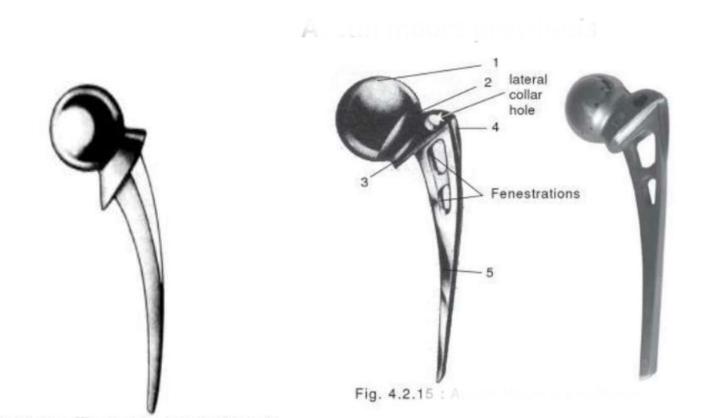
Local Anaesthetics:-(b) Amino Aminedes: -(a) Esters :- VTetracaine 1 Ropivacain 1 Lidocaine · Mepira cai 1 Chloroprocesine v Dibucaine 1 Bupivacenne V Cocaine vprocaine Local Anzethetic Technique d) Infiltration Anesthesia V Epidrum di) Regional Amesthesia VIVA /Bier Block V Intrathecal / Spinal (iii) Truncal blocks - Transversus Abdominis plane block ON Perpheral Here Block - V Plexue - Bracking, Lumber Individual or group of Kerner (v) Surface / Topical Anesthesia - EnLA CRAM Adjuvants in LA · Adrenaline V Bicarbonates - unionized from maintained V Glucore & Opioids, Clonidine, Ketamine

- Cortical
- Cancellous.





Austin mOOre implant.Fenestrated(With two holes). Non fenestrated(Thompson)



Intramedullary Kuntschner Nail. Clover leaf/club shaped cross section.

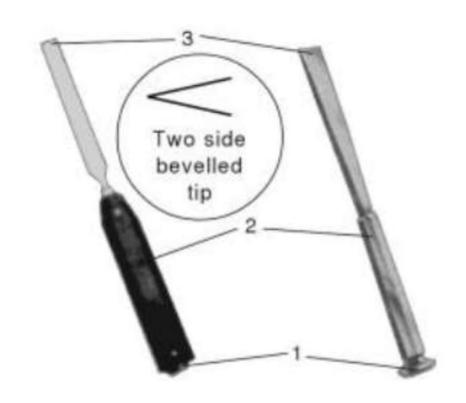


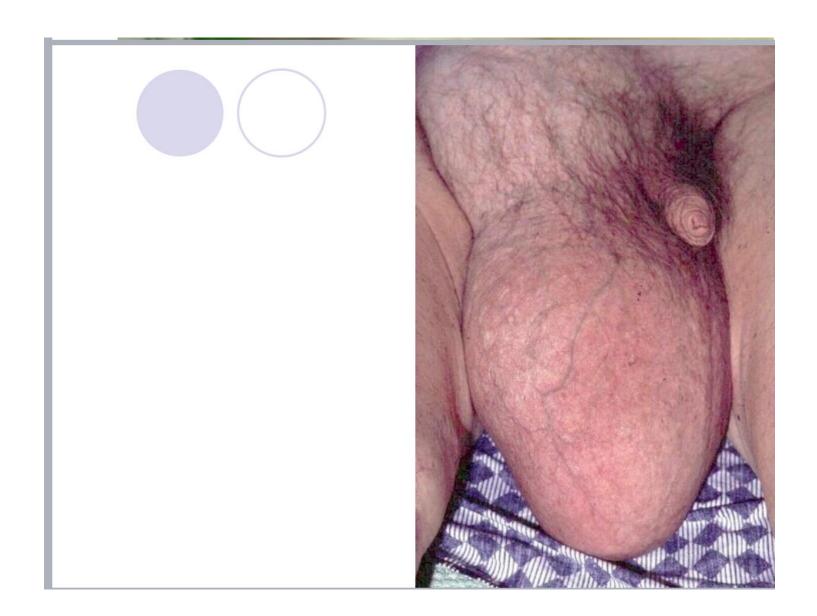
Traction pins.

Deinham is threaded at the centre. Steinmann is a smooth rod with one blunt end and one end pointed



Osteotome(Bevelled on both sides at the tip.)
Chisel(bevelled on one side at the tip.)
Function: Break bone during Osteotomy.





Checklist	P	MP	F
HELP			
H: 'Hello' (introduction and gains consent)			
E: Exposure (ideally waist downwards)			
L: Lighting			
P: Positions correctly (initially standing, then lying supine), asks if the patient is in any pain			
Washes hands			
Inspects from end of bed for any relevant paraphemalia			
Requests CHAPERONE			
Asks patient to stand			
Inspection:			
 Inspects patient with them in a standing position: Scars Swellings Lumps 			
Inspects scrotum			
Inspects groin			
Inspects abdomen			
 Asks patient to cough to exaggerate the hernia, observing for any impulse around groin and scrotum 			
Palpation:			
Identifies relevant anatomical landmarks: Pubic tubercle Anterior superior iliac spine Mid-inguinal point External (superficial) ring Internal (deep) ring			

Attempts to palpate external ring through scrotum (or states intent to do so)	
Identifies any swelling/lump	
 Examines swelling/lump thoroughly: 4 Ss 4 Cs 4 Ts 	
Attempts to get 'above' swelling	
Attempts to manually reduce the hernia	
 Asks patient to cough to exaggerate the hernia and feel a 'cough impulse' 	
Uses finger to obstruct internal ring (at the mid-inguinal point) and asks patient to cough Direct hernia appears Indirect hernia does not appear	
Auscultates swelling for bowel sounds	
Examines both sides for comparison	
Tells examiner he or she would like to complete the examination by examining the scrotum	
Thanks patient	
Offers to help patient get dressed	
Washes hands	
Presents findings	
Offers appropriate differential diagnosis	
Suggests appropriate further investigations and management	
OVERALL IMPRESSION:	

