



Dr Cheentan Singh

6 Weeks Check: What not to miss

PAEDIATRIC UPDATES FOR GPs & PRIMARY CARE





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6 Weeks Check

What not to miss !!!

PAEDIATRIC UPD POTES FOR CPS +8. PRIMARY CARE

6 Weeks Check: What not to miss

Scope:

- Background (changes in 2021)
- Clinical issue
 - Eyes / Hips / Testes & Heart
- Referrals and follow-up on
- Missed cases / Failing to attend
- Communication with families
- Quality assurance / KPI
- Maintaining Competencies
- Public Health England's guidance / resources

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NIPE: Neonatal and Infant Physical Examination

NIPE: 2 times (First 72 hrs and within 6-8 weeks)

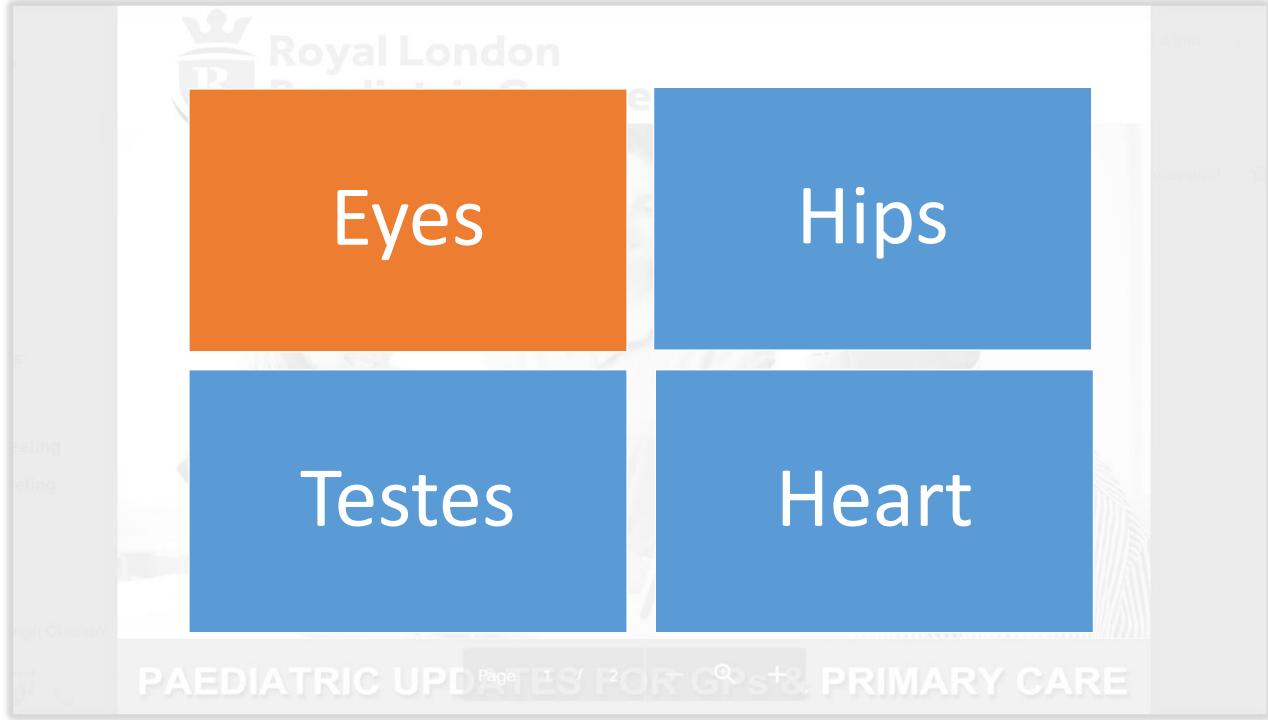
4 components of NIPE:

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1.Eyes: ~ 2 or 3 / 10,000 may require treatment.
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2.Heart: ~ 1 in 200 babies may have a heart problem.
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3. Hips: ~ 1 or 2 in 1,000 may require treatment.
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- 4.Testes: ~ 1 in 100 baby boys may require treatment.
- Head to toe examination
- Documentation on Smart4NIPE or GP IT system



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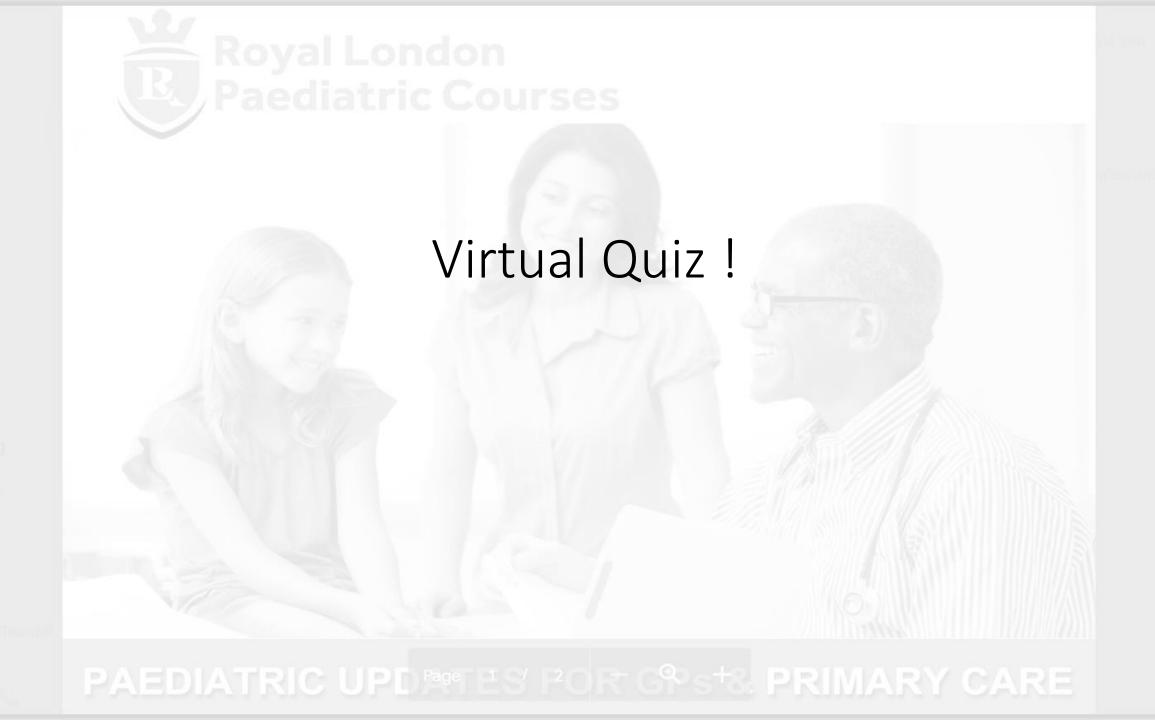
Eyes: Congenital Cataracts (2-3/10000 births)

- Long term issue
 - Delay will cause Amblyopia (vision loss)
- Risk Factors:
 - Family history of congenital eye defects
 - Genetic Syndromes eg Trisomy 21
 - Local external vascular malformations
 - Congenital infections
 - Prematurity
 - Rare Neurological conditions

Check Parental concerns of visual behaviours fixing, white spots, asymmetry, any abnormalities







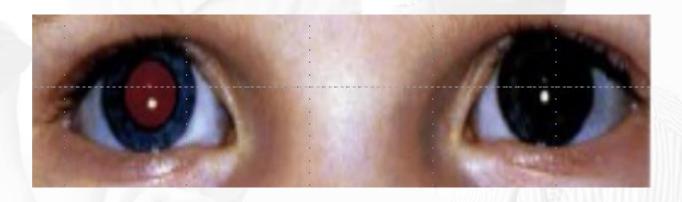


• Image 1





• Image 2





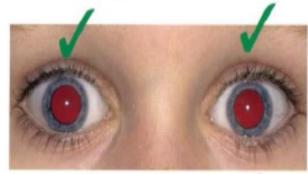
• Image 3

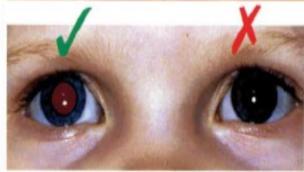


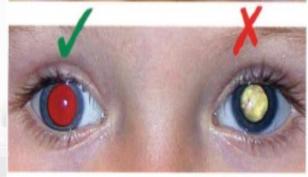
• Image 1

• Image 2

• Image 3







Normal

Left Eye

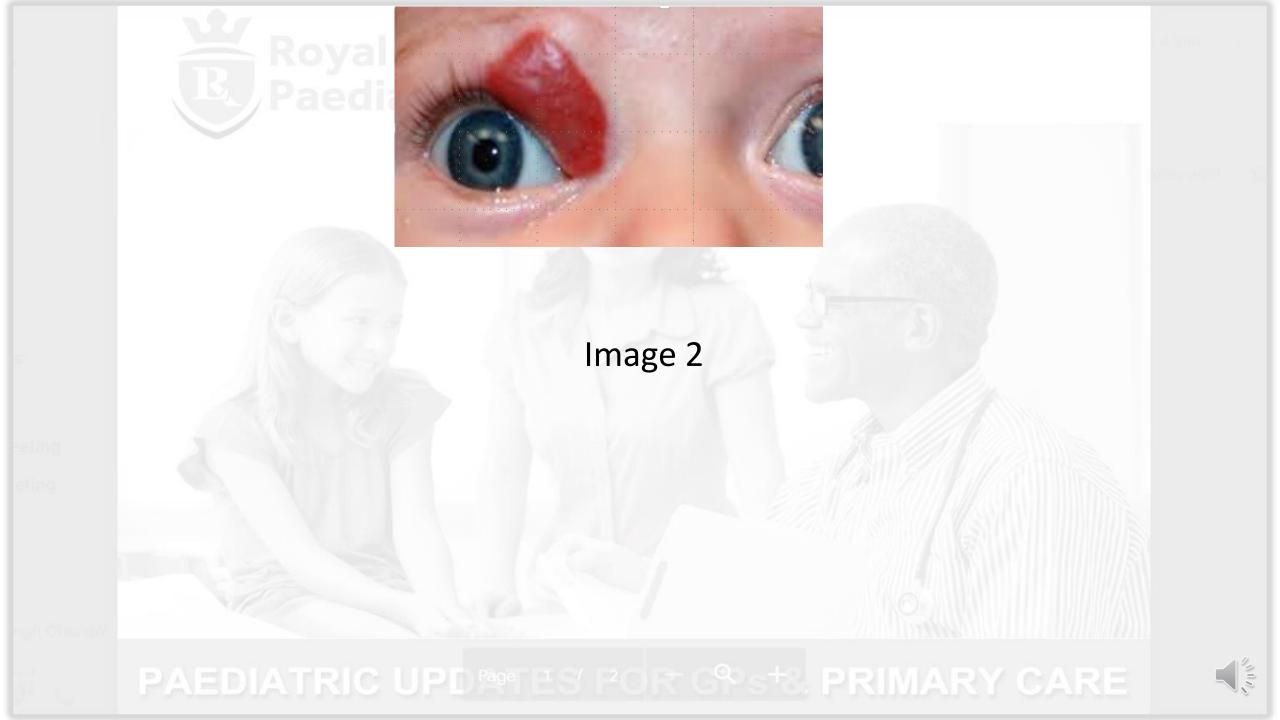
Left Eye

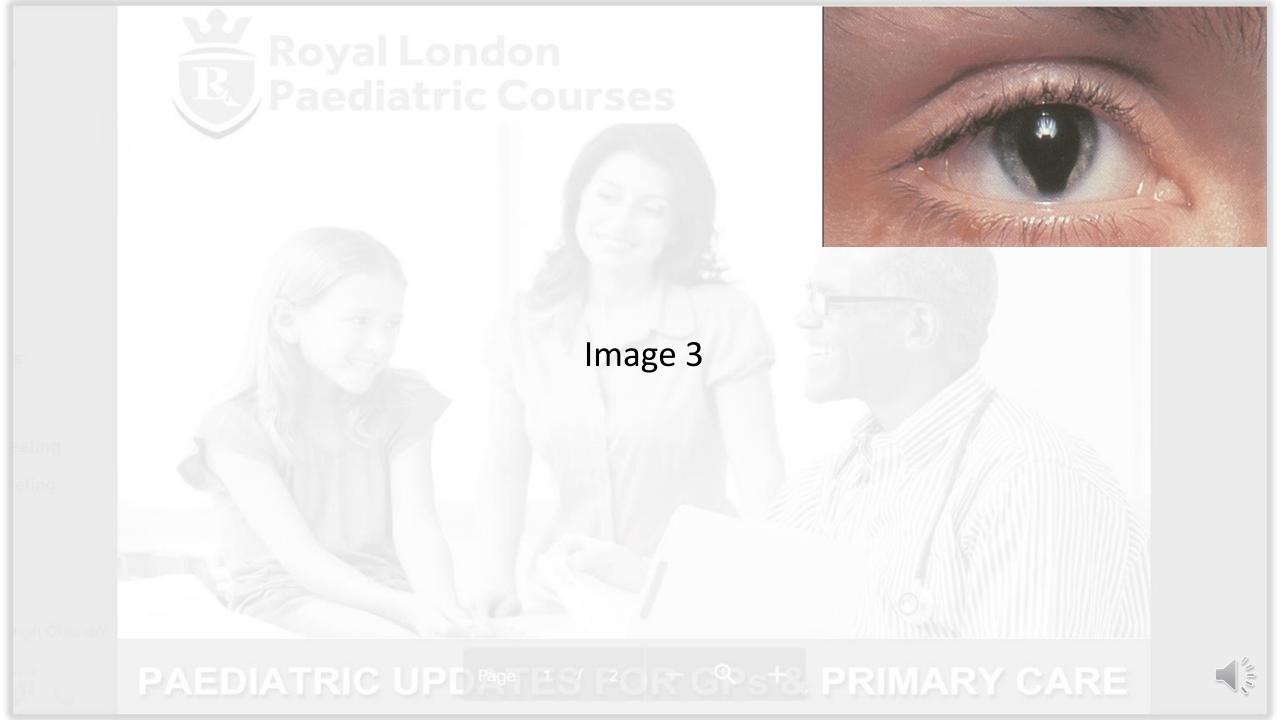
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Virtual Quiz 2: What is the diagnosis?

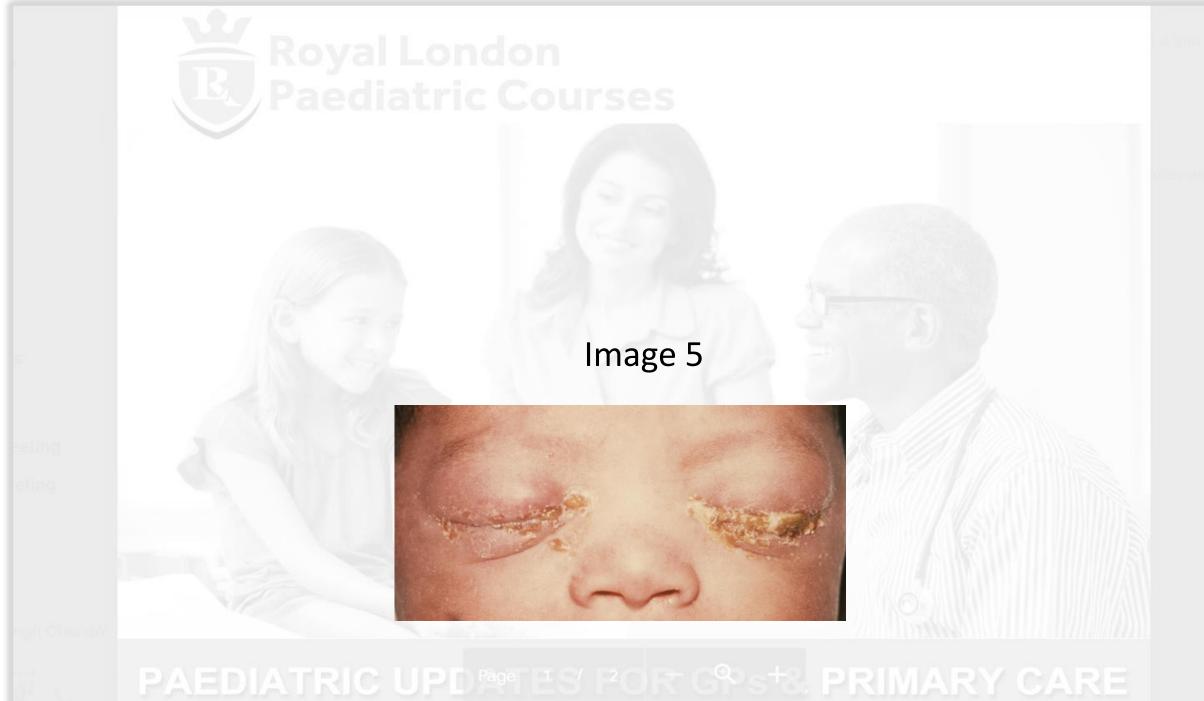




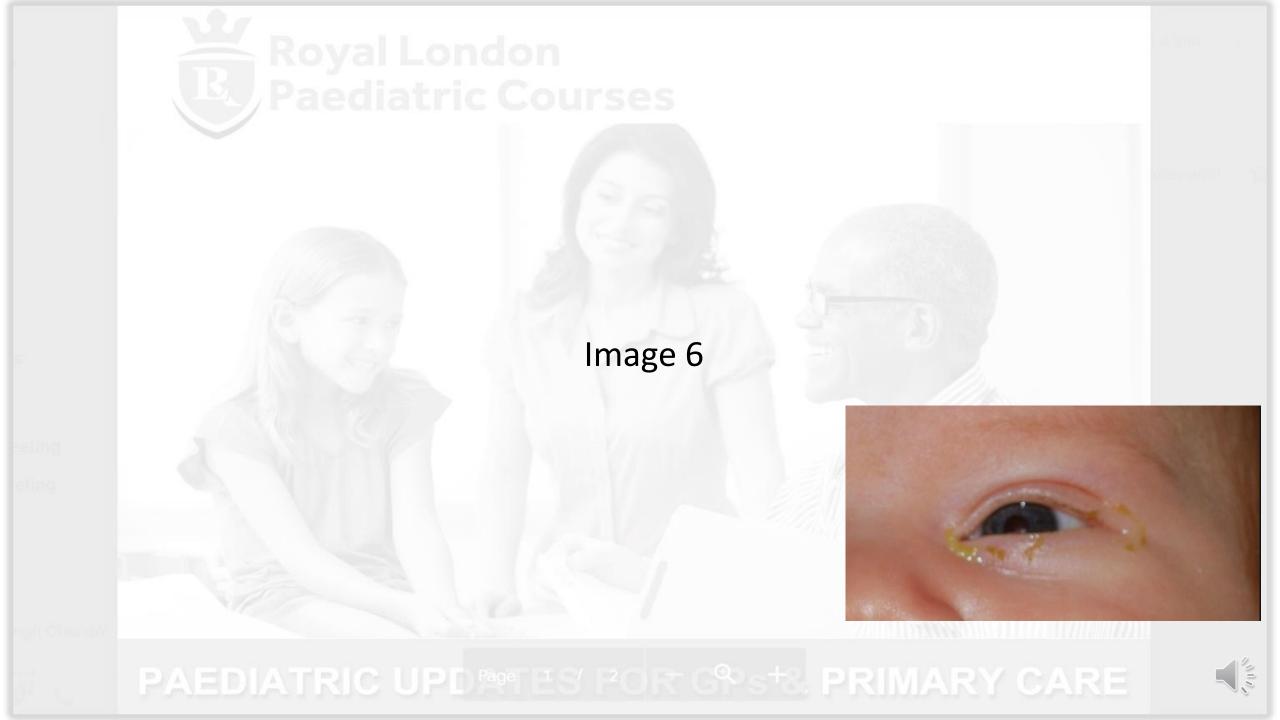
















Corneal opacity

Conjunctivitis

Blocked Tear Duct



Red eye reflex

Normal







Abnormal







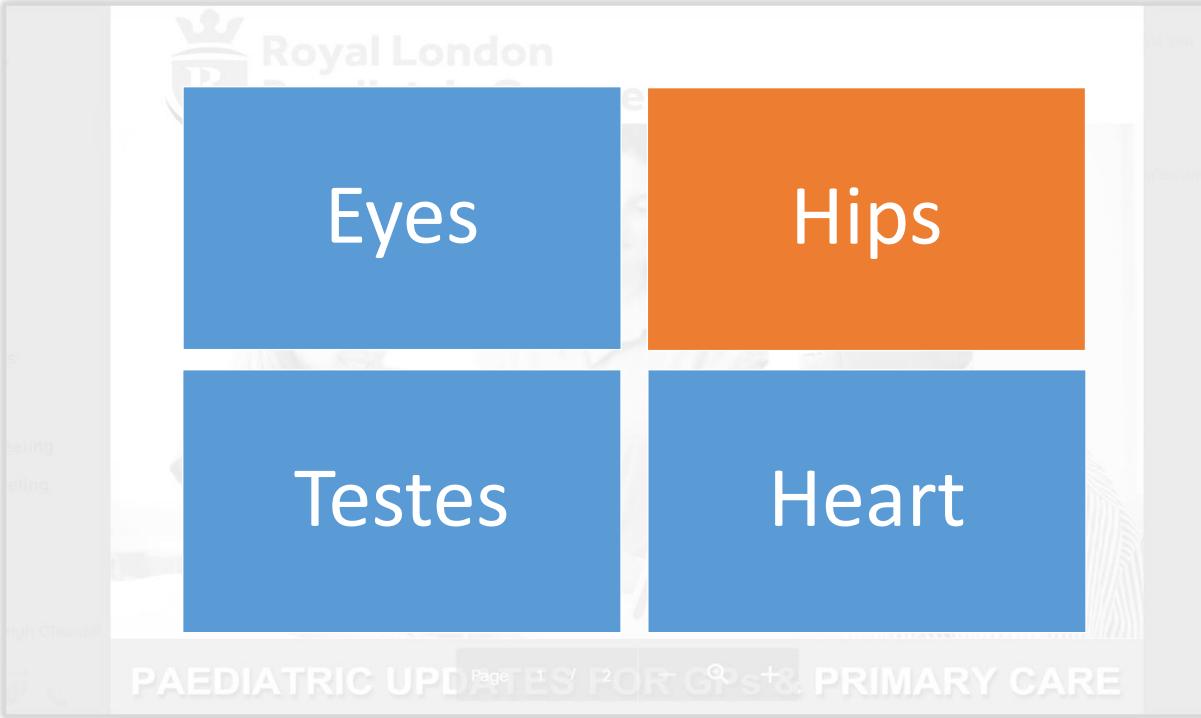
PAEDIATRIC UPD PORTES FOR GPS + 8. PRIMARY CARE

Absent / abnormal red eye reflex

Screen positive following 6 to 8-week infant examination

Infants with a positive screen at the 6 to 8-week examination require assessment by a consultant ophthalmologist or paediatric ophthalmology service by 11 weeks of age.







Hips: Development Dysplasia (2-3/1000 births) (Changes in 2021)

- Long term issues:
 - Impaired mobility
 - Pain
 - Osteoarthritis
- Undiagnosed / delay leads to need for complex surgery
- Risk factors (Should also have Hip US scan)
 - Family history
 - Breech after 36 weeks
 - Breech at birth >28 week gestation (both twins)

Parenteral Concerns:

- one leg cannot be moved out sideways as far as the other
- one leg seems to be longer than the other
- one leg drags when their baby starts crawling
- child walks with a limp or has a 'waddling' gait

Virtual Quiz 3:

Which Hip has the Problem?

Virtual Quiz 3:

Which side is the Problem ?If DDH is suspected



Image 1

UPD POTES FOR GPsts. PRIMARY CARE

Virtual Quiz 3: Which side is the Problem? If DDH is suspected

Image 2



PAEDIATRIC UPI

PRIMARY CARE

Virtual Quiz 3: Which side is the Problem? If DDH is suspected

Image 3



PAEDIATRIC UPD POTES FOR GP

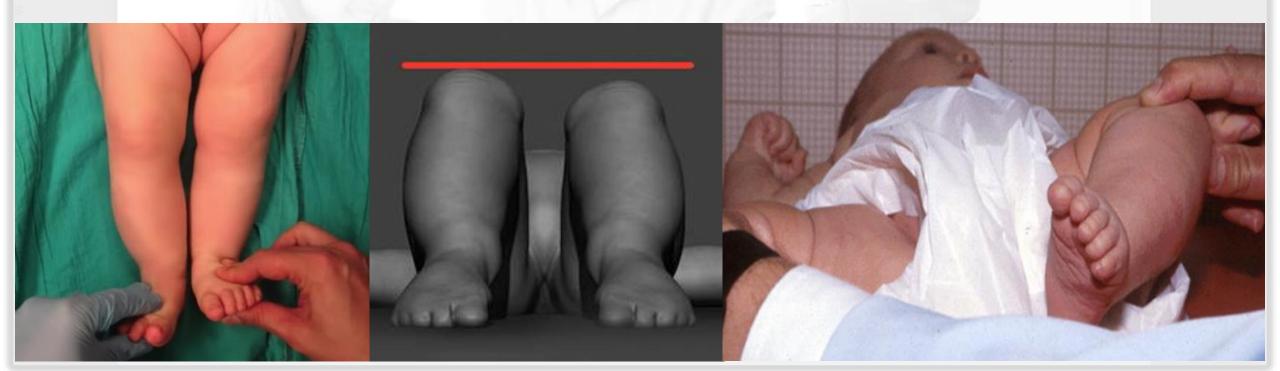
Hips (History and consent)

Observation

Leg Length is reduced

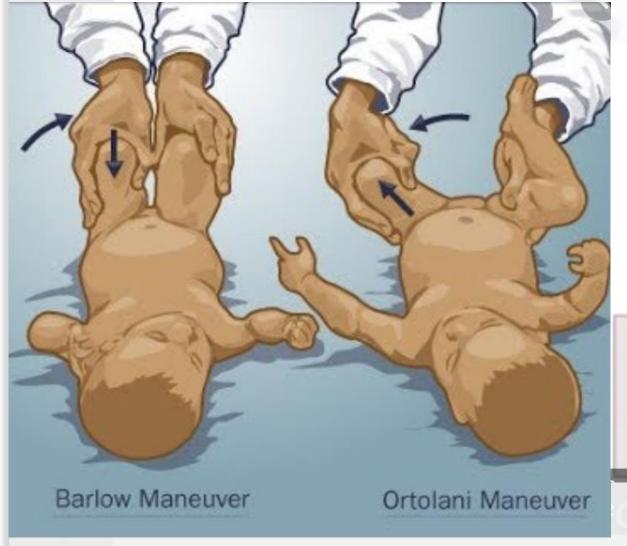
Knee Height is reduced

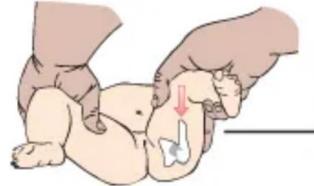
Abduction is restricted



Llips Douls VI Q Outs

Hips: Barlow & Ortolani





Barlow test

 Pushing backwards to try to dislocate hip

Ortolani test

- Abducting the hips to try to relocate hip
- Fingers push femur forwards into acetabulum



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Positive Hip screening

- Difference in leg length
- Knees at different levels when hips and knees are bilaterally flexed
- Restricted unilateral limitation of hip abduction (with a difference of 20 degrees or more between hips)
- Gross bilateral limitation of hip abduction (loss of 30 degrees abduction or more)
- Palpable 'clunk' when undertaking the Ortolani or Barlow manoeuvre

Hip screen positive (risk/examination)

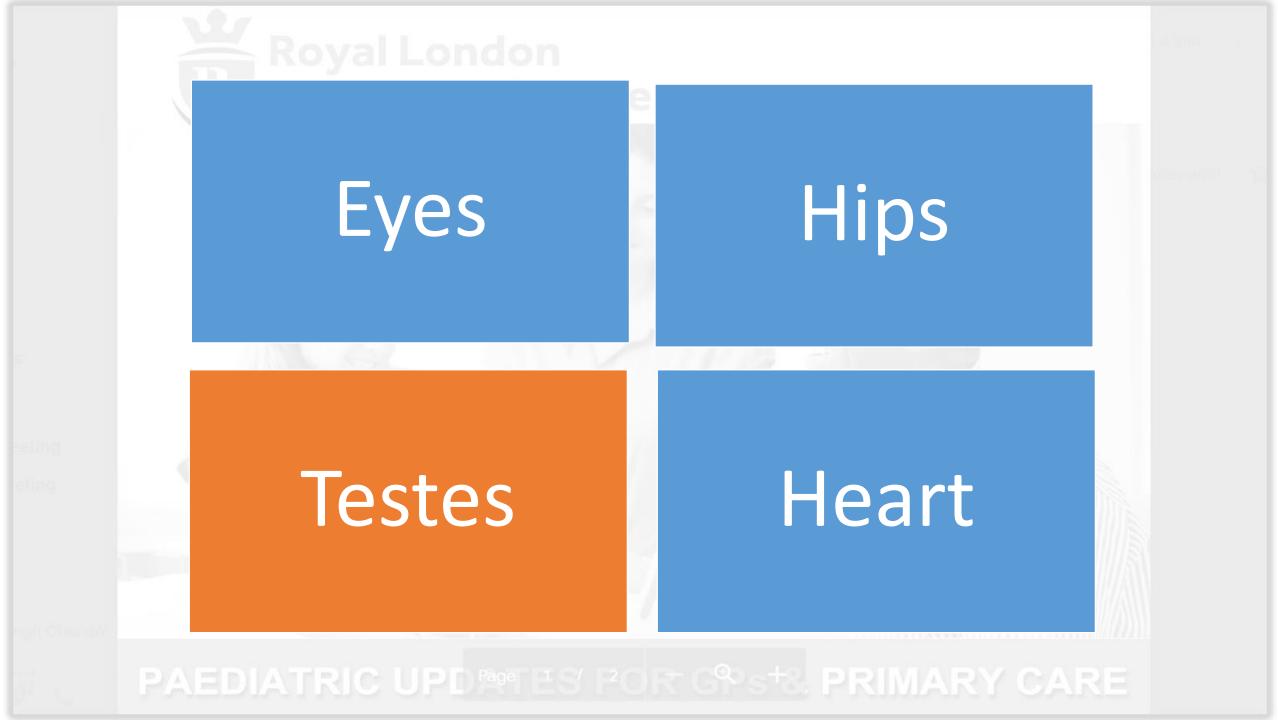
+ve Risk factors on History (normal Examination): Hip US before 6 weeks of age

Ultrasound hips (US) is for new-born positive screen / risk need to enter into pathway by 6 weeks of age

Positive screen at 6-8 weeks check:

Refer directly to paediatric orthopaedics and be seen by 10 weeks of age.

Clicks and asymmetry of skin fold are not a part of NIPE anymore

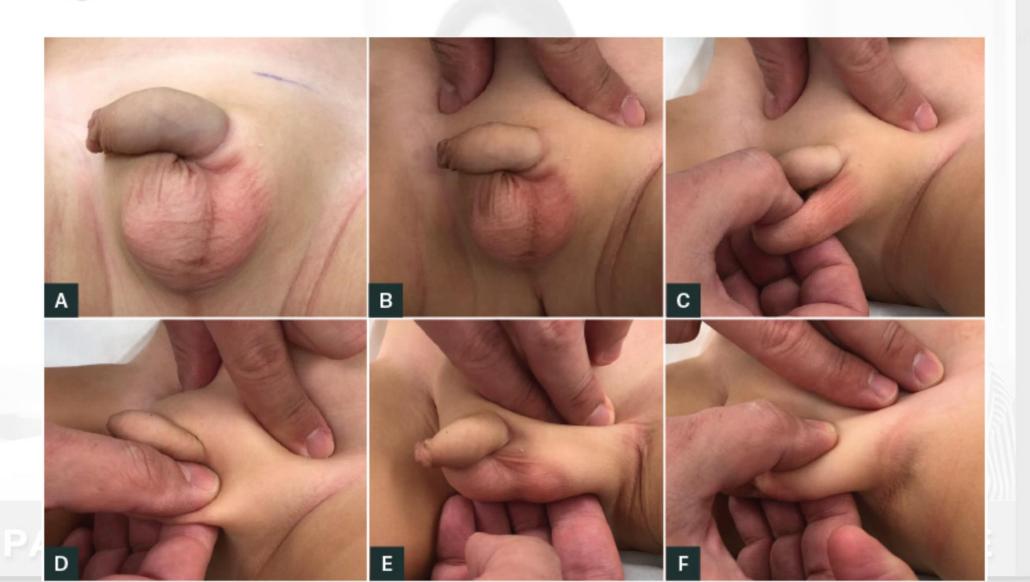


Testes: Cryptorchidism (2-6/100 births)

- Long term issues
 - Testicular cancer
 - Reduced fertility
 - Torsion
 - If bilateral (ambiguous genitalia genetic / endocrine problems)
- Early diagnosis reduces risk of the above
- Risk Factors
 - Family history
 - Low birth weight
 - SGA / Prematurity



Testes: History and Consent

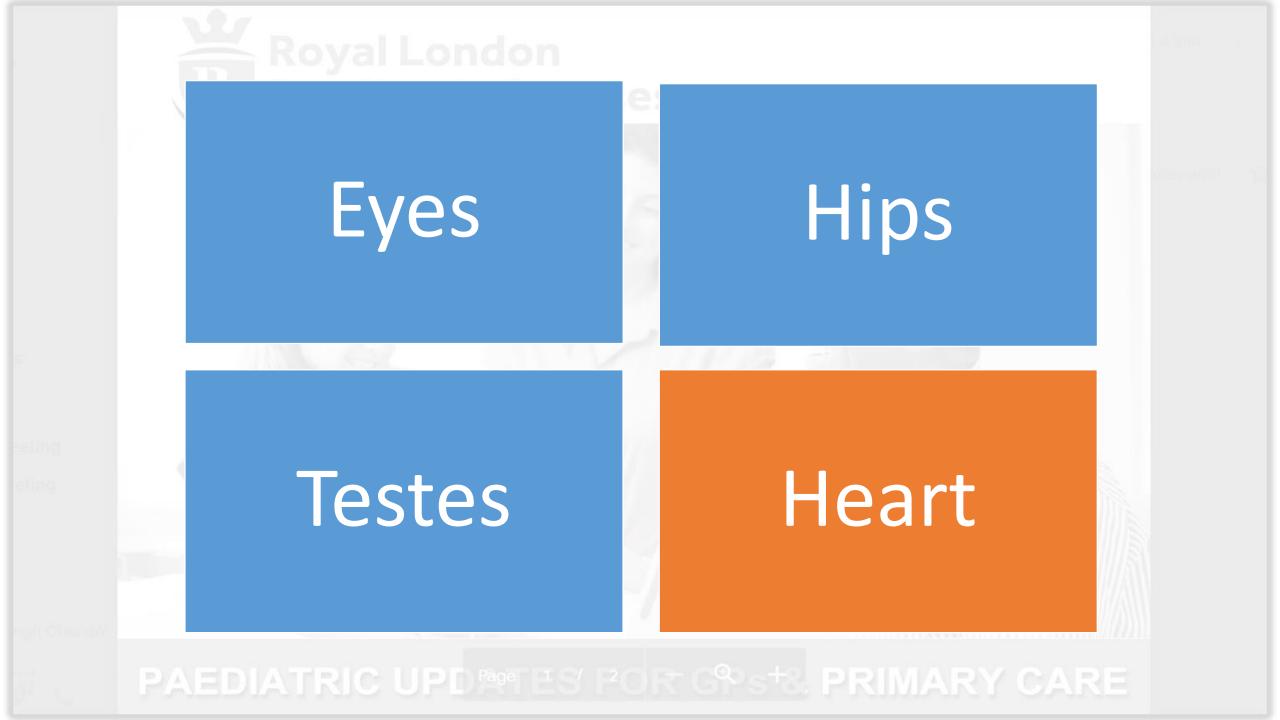


Testes: Absence / abnormal position (@6-8Week)

- Bilateral Undescended testes:
 - Urgent referral: to be seen by Paediatrician in 2 weeks

- Unilateral Undescended testis :
 - Rev in 4 5 months
 - Refer for surgery no more than 6 months later

Retractile vs undescended testes



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Cardiac Defects 6 – 12/1000 live births

Risk Factors

- Family history of CHD (first-degree relative)
- Fetal trisomy 21 or other trisomy diagnosed
- Cardiac abnormality suspected from the antenatal scan
- Maternal exposure to viruses, for example, rubella
- Maternal conditions, such as diabetes (type 1), epilepsy, systemic lupus erythematosis (SLE)
- Teratogenic drugs taken during pregnancy

Cardiac Examination:

Observation includes reviewing the baby's:

- general tone
- central and peripheral colour
- size and shape of chest
- respiratory rate
- symmetry of chest movement, use of diaphragm and abdominal muscles
- signs of respiratory distress (recession or grunting)

Palpation involves examination of the baby's:

- femoral and brachial pulses for strength rhythm and volume
- assessment of perfusion through capillary fill time
- position of cardiac apex (to exclude dextrocardia)
- palpation of liver to exclude hepatomegaly (may be present in congestive heart failure)
- vibratory sensation felt on the skin (+/- thrill)

Auscultation includes identification of a murmur, either systolic or diastolic or loudness. It also includes the assessment of the quality of heart sounds at:

- second intercostal spaces adjacent to the sternum left (pulmonary area)
- second intercostal spaces adjacent to the sternum right (aortic area)
- lower left sternal border in the fourth intercostal space (tricuspid area)
- apex (mitral area)
- midscapulae (coarctation area)

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Signs and symptoms that suggest critical or major congenital heart abnormality

These include:

- tachypnoea at rest
- episodes of apnoea lasting longer than 20 seconds or associated with colour change
- intercostal, sub-costal, sternal or supra-sternal recession, nasal flaring
- central cyanosis
- visible pulsations over the precordium, heaves, thrills
- absent or weak femoral pulses
- presence of cardiac murmurs or extra heart sounds

Significant vs Benign Murmurs

Missed Cases

- Not had first NIPE in 72 hrs
- Not had 6 -8 weeks check for undescended testes due to being inpatient
- Unscreened babies moved into the area

Aim to complete NIPE before 3 months of age after 3 months Ortolani and Barlow are not accurate

Communication

- Families
 - Explanation of the findings
 - Managing expectations
 - Answering the queries
- Maternity / Neonatal /Paediatric teams
 - Information sharing
 - Results of assessments and imaging
 - Communication re missed cases

Quality Assurance / Key Point indicators

- Provider's duty to meet and maintain the standards
- Regular checks
 - Monitoring if service meets or fails the standards
 - Regional QA teams makes recommendations ot commissioners and providers
 - They also offer advice on management of incidents
 - Formal QA visits and national data returns
- KPIs: Performance standard at least 95% of eligible babies
 - NIPE in 72 hr of birth
 - Hip US within 2 weeks of NIPE (positive cases)

Maintaining Competencies

https://www.e-lfh.org.uk/programmes/nhs-screeningprogrammes/



Online resource:



Guidance

Newborn and infant physical examination (NIPE) screening programme handbook

Updated 28 April 2021

https://www.gov.uk/government/publications/newborn-and-infant-physicalexamination-programme-handbook/newborn-and-infant-physicalexamination-screening-programme-handbook

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Any Questions ???





