



OFFICE OF THE DEAN

Sri Lakshmi Narayana Institute of Medical Sciences

OSUDU, AGARAM VILLAGE, VILLIANUR COMMUNE, KUDAPAKKAM POST,
PUDUCHERRY - 605 502.

[Recognised by Medical Council of India, Ministry of Health letter No. U/12012/249/2005-ME (P-II) dt. 11/07/2011]

[Affiliated to Bharath University, Chennai - TN]

Date:10/1/20

From
DR.shankarlal,
Professor and Head,
orthopaedics,
Slims,
Pondicherry.

To
The Dean,
Slims
pondicherry.

Sub: Permission to conduct value-added course: pediatric conditions in orthopaedics

Respected Sir,

With reference to the subject mentioned above, the department proposes to conduct a value-added course titled: pediatric conditions in orthopaedics_ on 8/2/20_. We solicit your kind permission for the same.

Kind Regards

Dr.shankarlal

PROFESSOR & HOD
Department of Orthopaedics
Sri Lakshmi Narayana Institute of Medical Sciences
Puducherry - 605 502.

FOR THE USE OF DEANS OFFICE

Names of Committee members for evaluating the course:

The Dean:Dr.balagurunathan

The HOD:Dr.shankarlal

The Expert:Dr.Vijayaragavan

The committee has discussed about the course and is approved.



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Dean

DEAN
Prof. K. BALAGURUNATHAN
SCHOOL OF SURGERY
SRI LAKSHMI NARAYANA
INSTITUTE OF MEDICAL SCIENCES
OSUDU, PUDUCHERRY

Subject Expert

Department of Orthopaedics
Sri Lakshmi Narayana Institute of Medical Sciences
Pondicherry - 605 502.

HOD

PROFESSOR & HOD
Department of Orthopaedics
Sri Lakshmi Narayana Institute of Medical Sciences
Pondicherry - 605 502.



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Circular

07.06.2020

Sub: Organising Value-added Course: PAEDIATRICS CONDITIONS IN ORTHOPAEDICS.

With reference to the above mentioned subject, it is to bring to your notice that Sri Lakshmi Narayana Institute of Medical Sciences, **Bharath Institute of Higher Education and Research** is organizing **PAEDIATRIC CONDITIONS IN ORTHOPAEDICS. 30 hrs & FEB 2020 – JUNE 2020**

The application must reach the institution along with all the necessary documents as mentioned. The hard copy of the application should be sent to the institution by registered/ speed post only so as to reach on or before FEB2020-JUNE2020. Applications received after the mentioned date shall not be entertained under any circumstances.

Dean

DEAN
Prof.K.BALAGURUNATHAN,M.S
(General surgeon)
SRI LAKSHMI NARAYANA
INSTITUTE OF MEDICAL SCIENCES
OSUDU PONDICHERRY



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Course Proposal

Course Title: *pediatric condition in orthopaedics*

Course Objective: conditions.etiology,treatment

Course Outcome: management of various pediatric conditions

Course Audience:25

Course Coordinator:dr.BALAGURUNATHAN

Course Faculties with Qualification and Designation:

1.Dr.shankarlal MS ORTHO MCH Neurosurgery

Course Curriculum/Topics with schedule (Min of 30 hours)

SlNo	Date	Topic	Time	Hours
1	8/2/20	CONDITIONS	4.30 to6.30	2
2	15/2/20	ETIOLOGY	5.30 to 7	1 1/2
3	4/3/20	CLINICAL FEATURES	4.30 to 5	1/2
4	12/3/20	LATE FEATURES	5 to7	2
5	19/3/20	TREATMENT	4.30 to 6:30	2
6	26/3/20	COMPLICATIONS	5 to 7	2
7	16/4/20	PRACTICAL SESSION	4 to 7	3
8	23/4/20	PRACTICAL SESSION	4 to 7	3
9	14/5/20	PRACTICAL SESSION	4 to 7	3
10	22/5/20	PRACTICAL SESSION	5 to7	2
11	30/5/20	PRACTICAL SESSION	4 to6	2
12	11/6/20	PRACTICAL SESSION	4 to7	3
13	18/6/20	PRACTICAL SESSION	4 to 8	4
			Total Hours	30



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REFERENCE BOOKS:

1)TACHDJIAN PAEDIATRIC ORTHOPAEDICS

2)FUNDAMENTAL OF PAEDIATRIC ORTHOPAEICS

LYNN.T.STAHELI



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VALUE ADDED COURSE

1. Name of the programme & Code :

Paediatric conditions in orthopaedics – OR12

2. Duration & Period

30 hrs & FEB 2020 – JUNE 2020

3. Information Brochure and Course Content of Value Added Courses

Enclosed as Annexure- I

4. List of students enrolled

Enclosed as Annexure- II

5. Assessment procedures:

Short notes- *Enclosed as Annexure- III*

6. Certificate model

Value Added Course- FEB – JUNE 2020					
Sl. No	Course Code	Course Name	Resource Persons	Target Students	Strength & Year
1	OR12	PAEDIATRIC CONDITION IN ORTHOPAEDICS	Dr. Vincent	THIRD YEAR MBBS	25 (FEB 2020 – JUNE 2020)

Enclosed as Annexure- IV

7. No. of times offered during the same year:

1 FEB 2020 – JUNE 2020

8. Year of discontinuation: 2021

9. Summary report of each program year-wise

10. Course Feed Back *Enclosed as Annexure- v*



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Dr.VINCENT
RESOURCE PERSON

Department of Orthopaedics
Sri Lakshmi Narayana Institute of Medical Sciences
Pondicherry - 605 502.

DR.BALAGURUNATHAN
COORDINATOR

DEAN
Prof.K.BALAGURUNATHAN ,M.S
(General surgeon)
SRI LAKSHMI NARAYANA
INSTITUTE OF MEDICAL SCIENCES
OSUDU PONDICHERRY



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PAEDIATRIC CONDITIONS IN ORTHOPAEDICS

8/2/20

PAEDIATRIC CONDITIONS IN ORTHOPAEDICS

Particulars	Description
Course Title	PAEDIATRIC CONDITION IN ORTHOPAEDICS
Course Code	OR12
Objective	1. CONDITIONS 2. AETIOLOGY 3. CLINICAL FEATURES 4. LATE FEATURES 5. TREATMENT 6. COMPLICATIONS
Further learning opportunities	Rare cases of paediatric conditions in orthopaedics
Key Competencies	On successful completion of the course the students will have the skill to evaluate and manage the paediatric conditions in orthopaedics
Target Student	PRE FINAL YEAR Students
Duration	30hrs FEB 2020 – JUNE 2020
Theory Session	10hrs
Practical Session	20hrs
Assessment Procedure	SHORT NOTES



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DEVELOPMENTAL DYSPLASIA OF THE HIP

Formerly known as congenital dislocation of the hip

.. Comprise a spectrum of disorder:

1. Dislocation during neonatal period
2. Subluxation or partial displacement
3. Shallow acetabulum without actual displacement

.. 5-20 per 1000 live births

.. Re-examination 3 weeks after birth , the incidence : 1-2 per 1000 infants

.. Girls>boys, 7:1

.. Left hip> right hip

.. 1:5 cases - bilateral



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Genetic

- Generalized joint laxity
- Shallow acetabula

Hormonal changes

- High level of maternal estrogen, progesterone and relaxin in the last few weeks of pregnancy aggravate ligamentous laxity in infant

Intrauterine malposition

- esp. breech position with extended legs -> dislocation

Postnatal factors

- Who swaddle their babies & carry them with fully extended hips n knees > compare to person who carry babies astride their backs with hips abducted

Clinical features:

In the neonate:

• Every newborn child should be examine for sign of hip instability esp:

- FHx of congenital hip instability, breech presentation

Special tests:

• Ortolani's test

• Barlow's test



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Late features:

- Asymmetry, a clicking hip or difficulty in applying

napkin

- Unilateral dislocation- skin creases look asymmetrical, short leg, internally rotated
- Bilateral dislocation- wide perineal gap, abduction is

limited

- Walking is delayed
- Gait: limp or Trendelenburg gait



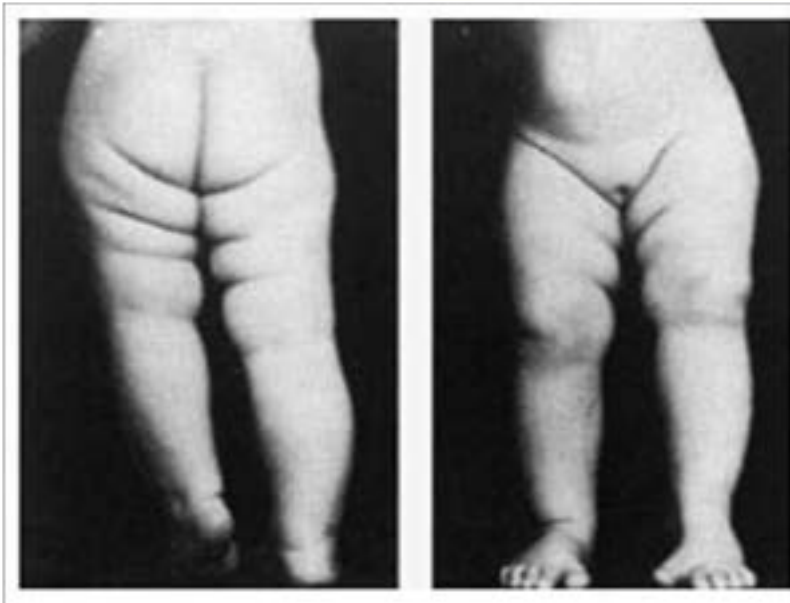
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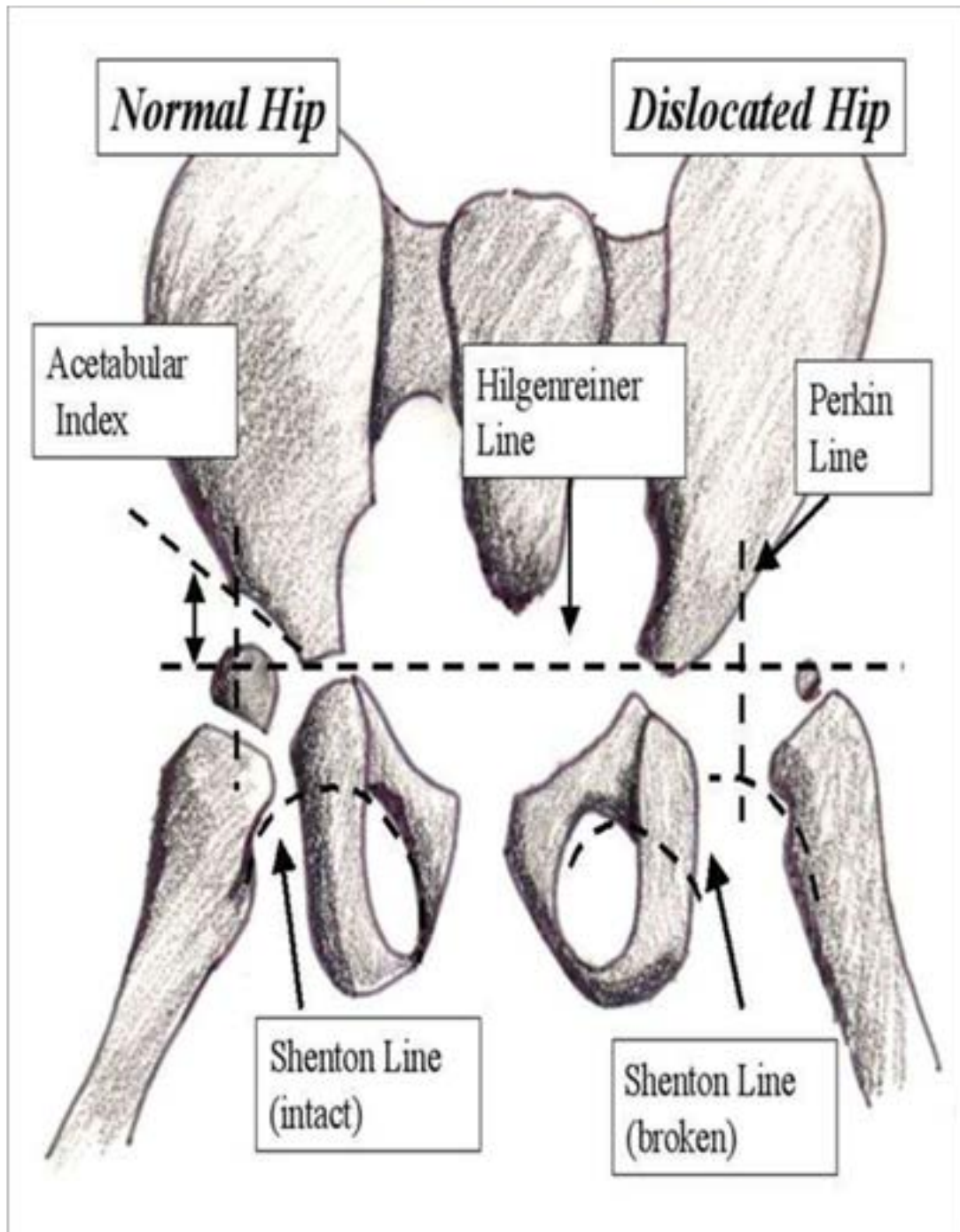
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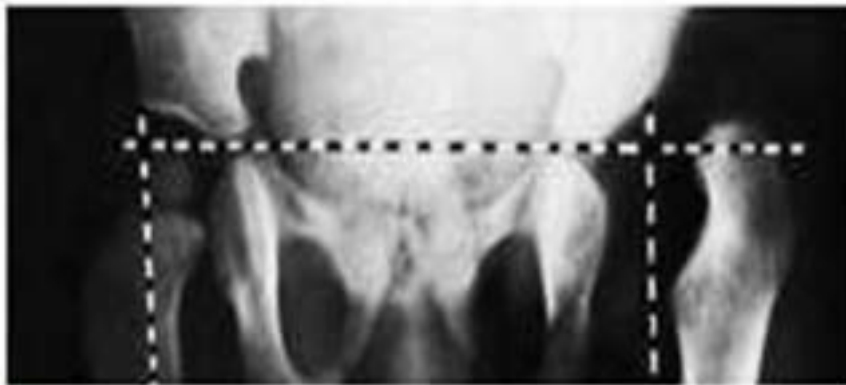
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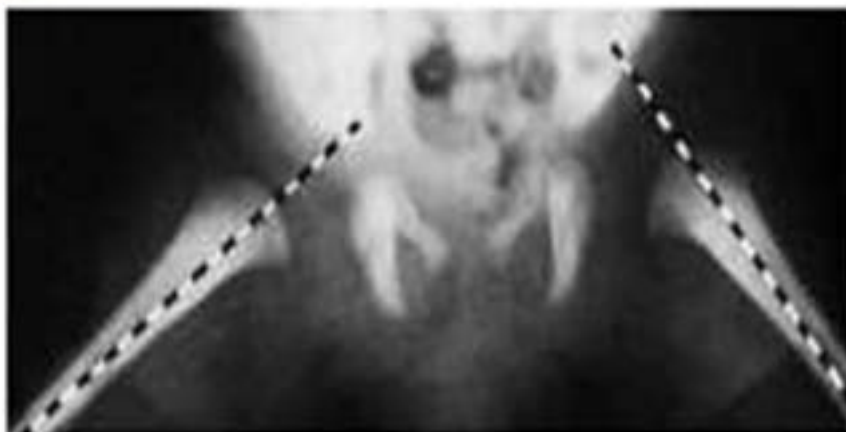
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(a)



(b)



hip dyplasia



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□ acetabular index - angle formed by a line drawn from point on triradiate cartilage to point on lateral margin of

acetabulum (normal is < 30 deg.)

Von Rosen's lines- the hip abducted 45degree. The femoral shaft should pointed into acetabula



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Treatment:

The first 3-6 month of age

- Double napkin or an abduction pillow for 1st 6weeks
- Re-examined
- Persistent instability à abduction splintage until hip is stable
- Follow up- until the child walking

.. Splintage:

- hold the hip 100 degree flexed and abducted
- allow some movement in the splint

Persistent dislocation: 6month to 6 years

.. **Closed reduction**

.. **Splintage**

.. **Open reduction**

After the age 6 years

Unilateral dislocation- operative reduction **Bilateral dislocation-**
notifiable

Symmetrical, less

- Greater risk for surgical intervention
- avoid operation unless pain and deformity is unusually severe

slipped upper femoral epiphysis :

Displacement of the proximal femoral epiphysis



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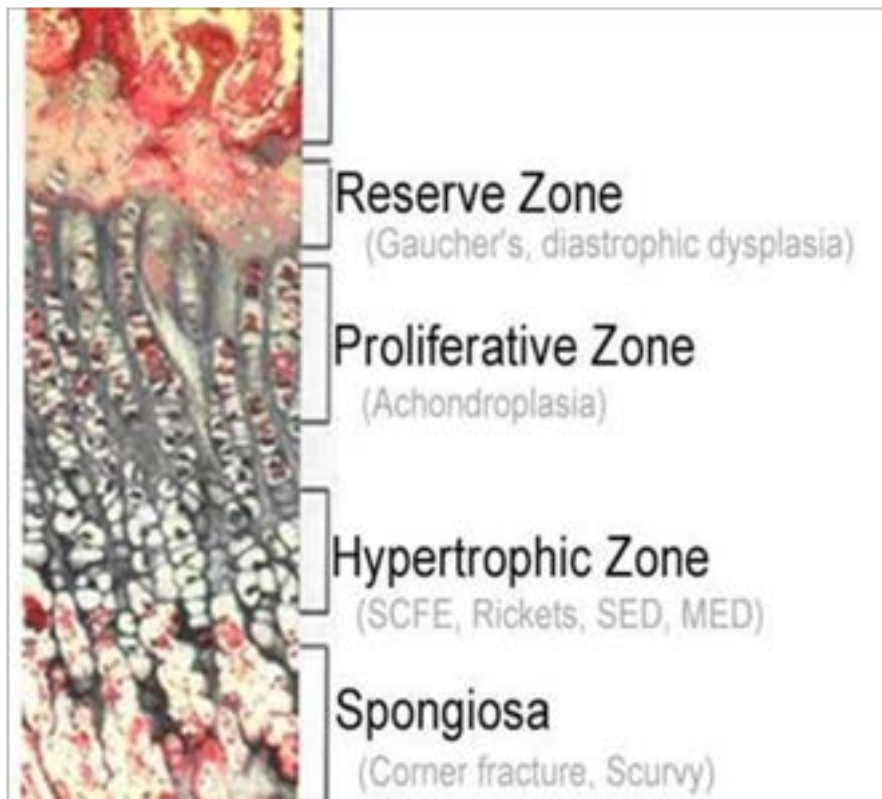
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- .. aka epiphysiolysis
- .. Most common hip pain in adolescence
- .. M > F->3:2
- .. M: 12 - 16 y/o, F: 10 - 15 y/o
- .. Bilateral: 17 – 50% of cases



Epidemiology:

Risk factors include:

- Obesity
- Hx of radiation therapy to femoral head region



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- Endocrine disorders (e.g. hypothyroidism and osteodystrophy of chronic renal failure)
- Positive family history of SUFE/SCFE (autosomal dominant)
- African American

Clinical presentation:

- HiHip or groin pain (most common)
- Referred pain: ant part of thigh and knee
- 2. Physical examination
 - " Trendelenburg gait
 - " Leg is externally rotated
 - " 1-2cm short
 - " Limitation of abduction and internal rotation



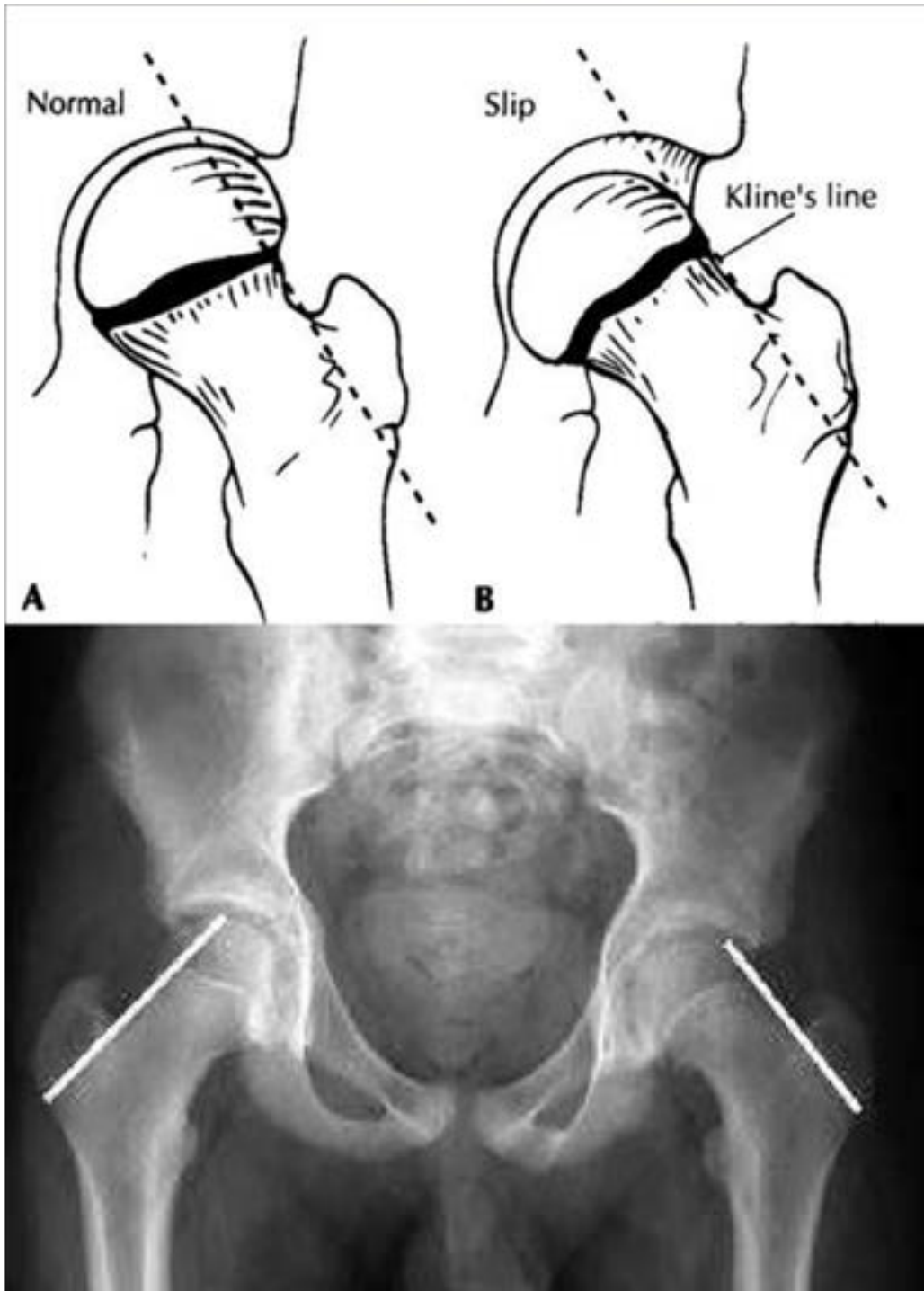
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SUFE Grading



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Management:

Non weight bearing and rest

Surgical: Percutaneous in-situ stabilization/fixation

Complications

- .. Avascular necrosis of femoral head (10-15%)
- .. Acute cartilage necrosis/chondrolysis (7-10%)
- .. Deformity
- .. Secondary osteoarthritis (~90%)
- .. Slip progression (1-2% of single screw fixation)
- .. Hip stiffness



Perthes disease



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.. Painful hip disorder of childhood characterized by necrosis of the femoral head

.. Incidence: 1 in 10 000

.. Boys > girls , 4x as often as girls

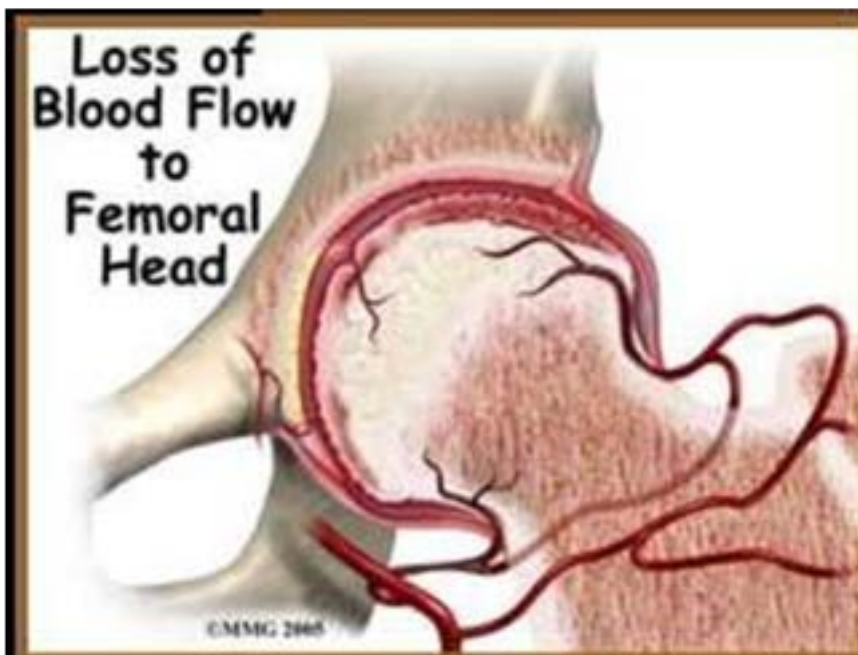
.. Usually 4-8 years old

Femoral head supplied by:

- Metaphyseal vessels
- Lateral epiphyseal

vessels

- Scanty vessels





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Pathology:

- Stage 1 : **Bone death**
- Part of the bony femoral head dies, stop enlarge
- Stage 2 : **Revascularization and repair**
- New blood vessel enter the necrotic area and new bone is laid down on the dead trabeculae
- Stage 3: **Distortion and remodelling**
- Epiphysis is damaged and the growth at the head and neck will be distorted
- Epiphysis ends up flattened ('coxa plana') but enlarged ('coxa magna')
- The femoral head is incompletely covered by the acetabulum.

Clinical features :

- .. Complaint of pain and start to limp
- .. Little wasting of muscles in the upper thigh
- .. Joint is irritable
- ✓ All movements are diminished
- ✓ Extremely painful
- .. The child is not seen till later
- ✓ Limited abduction and internal rotation



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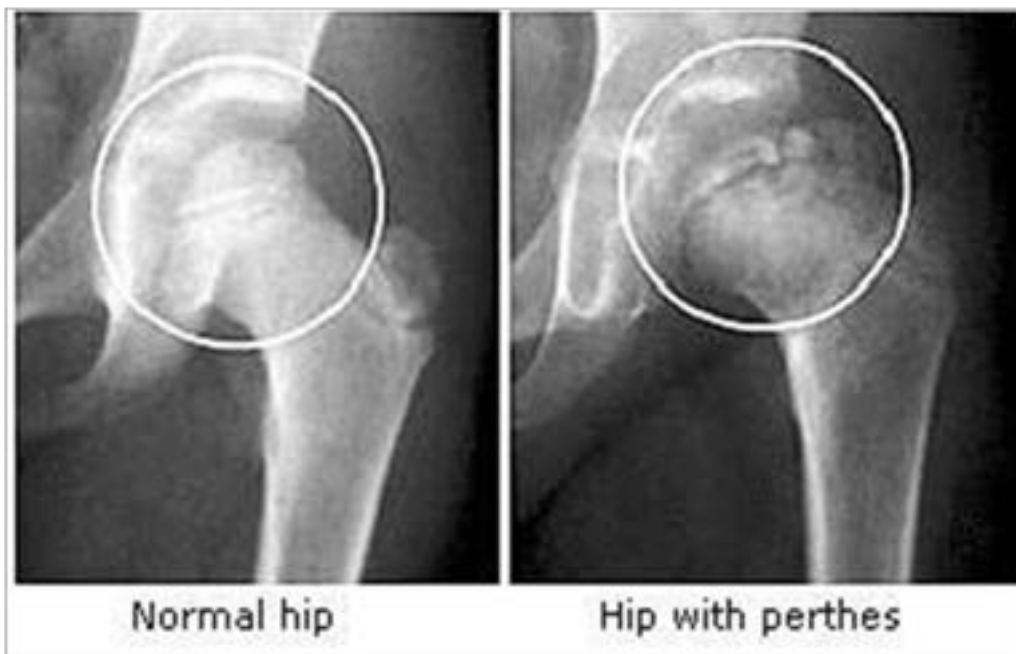
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Investigation:

Xray:

- Earliest changes – increased density of the bony epiphysis and apparent widening of the joint space
- Followed by - flattening, fragmentation and lateral displacement of the epiphysis, with rarefaction and broadening of the metaphysis.



Treatment :

Symptomatic treatment :

- Pain control
- Gentle exercise to maintain movement
 - .. Containment
 - .. Operative reconstruction



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Irritable hip :

Transient synovitis is the most common cause of acute hip pain

aged 3-10 years. Boys >> Girls

The disease causes arthralgia and arthritis secondary to a transient inflammation of the synovium of the hip.

Usually it is a diagnoses of exclusion, once trauma and infection are ruled out

Symptoms:

- Most commonly: Unilateral hip or groin pain
- Limp.
- 50% patient has recent history of an URTI
- Usually afebrile or have a mildly elevated temperature.
- Very young children -> crying at night.
- -Hold the hip in flexion with slight abduction and external rotation.
- mild restriction of abduction and internal rotation, but 1/3 demonstrate no limitation of motion.
- The hip may be tender and painful even with passive movement.
- The most sensitive test
- **:the log roll**

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Investigations:

- " Usually to rule out other diagnoses.
- " WBC, ESR and CRP are usually elevated in septic arthritis.
- " XRay: can exclude bony lesions.
- " Ultrasound- may show a joint effusion
- Management
- " Apply heat and massage
- " .Non-steroidal anti-inflammatory drugs (NSAIDs).
- " Advise bedrest until pain dissappear and the effusion
- resolves



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VALUE ADDED COURSE

PAEDIA TRIC CONDITIONS IN ORTHOPAEDICS
OR12

4. List of Students Enrolled FEB 2020 – JUNE 2020

Pre final Year MBBS Student			
Sl. No	Name of the Student	Roll No	sign
1	ALLARI KARTHIK ABHIROOP	U16MB258	
2	AMAL ASHOK	U16MB259	
3	AMIRTHAVARSHNI .R	U16MB260	
4	ANANYA SHARMA	U16MB261	
5	ANGALAKUDURU DEEPCHAND	U16MB262	
6	ANJAN BANERJEE	U16MB263	
7	ANWESHA CHATTERJEE	U16MB264	
8	ARCHANA .A	U16MB265	
9	ARCHITHA.A	U16MB266	
10	ARIVUMATHI .R	U16MB267	
11	ARJUN.S	U16MB268	
12	ASHVANTH KUMAR .A	U16MB269	
13	ASMITHA S.V	U16MB270	
14	AVIDI VENKATA SAISUSHMA	U16MB271	
15	AVIRAL PATPATIA	U16MB272	
16	BALACHANDRAN .A	U16MB273	
17	BALAJI .S	U16MB274	
18	BHASKARAN .K.C	U16MB275	
19	BHAVANI .K.M	U16MB276	
20	BLESSY AMALA RISHA .J	U16MB277	
21	CAREENA DANIEL	U16MB278	
22	CHANDRA PRAKASH.M	U16MB279	
23	CHINJU S.R	U16MB280	



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RESOURCE PERSON

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DR.BALAGURUNATHAN
COORDINATOR

DEAN
Prof.K.BALAGURUNATHAN.MS
(General surgeon)
SRI LAKSHMI NARAYANA
INSTITUTE OF MEDICAL SCIENCES
OSUDU PONDICHERRY



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Annexure 4

Course/Training Feedback Form

Course: PAEDIATRIC ORTHOPAEDICS

Date: 18/6/20

Name:amal ashok

Reg NO.

Department:ORTHO

Q 1: Please rate your overall satisfaction with the format of the course:

a. Excellent b. Very Good c. Satisfactory d. unsatisfactory

Q 2: Please rate course notes:

a. Excellent b. Very Good c. Satisfactory d. unsatisfactory

Q 3: The lecture sequence was well planned

a. Excellent b. Very Good c. Satisfactory d. unsatisfactory

Q 4: The lectures were clear and easy to understand

a. Excellent b. Very Good c. Satisfactory d. unsatisfactory

Q 5: Please rate the quality of pre-course administration and information:

a. Excellent b. Very Good c. Satisfactory d. unsatisfactory

Q 6: Any other suggestions:

Comments:

Thank you for taking the time to complete this survey, your comments are much appreciated.

OPTIONAL Section: Name _____

Signature _____ Date _____



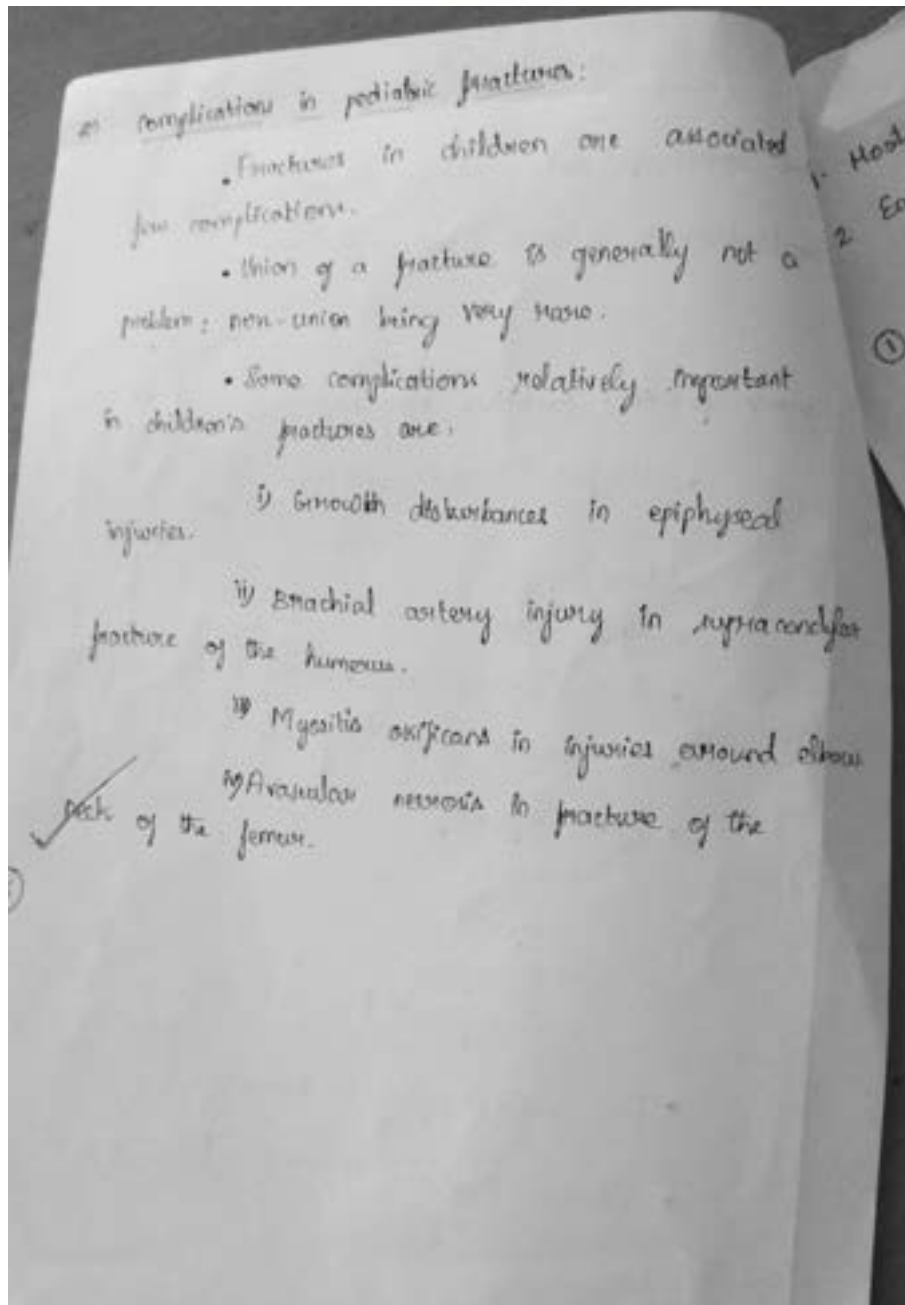
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Orthopedics

Q1) Most common pediatric conditions in orthopedics?

Q2) Complications in pediatric fractures?

Q3) Common pediatric conditions in orthopedics:

- Clubfoot (Idiopathic congenital Talipes equinovarus)
- Bow legs
- Knock knees
- Perthes' disease (Osteochondritis of Hip)
- Developmental Dysplasia of Hip (DDH)
- Spinal deformity
 - Scoliosis
 - Kyphosis
 - Spondylosis
 - Spondylolythosis
- Flat feet (Pes planus or planovalgus)
- Pediatric Fractures (Greenstick fracture)

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20



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late features :

- difficulty in wearing clothes
- X-rays reveals the lower bone density.
- Unilateral dislocation
(skin creases look, asymmetrical, short leg, internally rotated)
- Bilateral dislocation
(wide perineal gap, abduction is limited)
- walking is delayed
- Gait : Trendelenburg gait may occur.

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1. Most common fractures in paediatrics age group?
2. Early & late features of paediatrics age fractures

① fractures common in children:

- forearm bones fractures
- supracondylar fracture of the humerus
- fracture of lateral condyle of the humerus
- Epiphyseal injuries
- Spinal fractures of tibial shaft

② features of paediatrics age fractures:

Early features:

- Pain (Hip or groin pain - common)
- Limp
- due to softness of bones, absent or minimal fracture occur.

injury, such as sprain (or) a bad bruise.



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(Deemed to be University under section 3 of the UGC Act 1956)



CERTIFICATE OF MERIT

This is to certify that AMAL ASHOK has actively participated in the Value Added Course on PAEDIATRIC CONDITIONS IN ORTHOPAEDICS held during FEB 2020 – JUNE 2020 Organized by Sri Lakshmi Narayana Institute of Medical Sciences, Pondicherry-605 502, India.

Dr. Vincent

RESOURCE PERSON

Dr. BALAGURUNATHAN

COORDINATOR



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Student Feedback Form

Course Name: PAEDIATRIC CONDITIONS IN ORTHOPAEDICS

Subject Code: OR12

Name of Student: EDA JAI VENKATA TEJA Roll No.: U16MB289

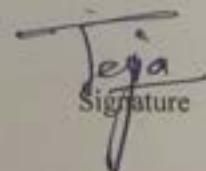
We are constantly looking to improve our classes and deliver the best training to you. Your evaluations, comments and suggestions will help us to improve our performance

Sl. NO	Particulars	1	2	3	4	5
1	Objective of the course is clear					/
2	Course contents met with your expectations					/
3	Lecturer sequence was well planned					/
4	Lectures were clear and easy to understand					/
5	Teaching aids were effective					/
6	Instructors encourage interaction and were helpful					/
7	The level of the course					/
8	Overall rating of the course	1	2	3	4	5

* Rating: 5 - Outstanding; 4 - Excellent; 3 - Good; 2 - Satisfactory; 1 - Not-Satisfactory

Suggestions if any:

Date: 18/06/20


Teja
Signature



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Date:18/6/20

From
Dr.shankarlal,
orthopedics,
Slims,
pondicherry

Through Proper Channel

To
The Dean,
Slims,
Pondicherry.

Sub: Completion of value-added course: pediatric conditions in orthopedics

Respected Sir,

With reference to the subject mentioned above, the department has conducted the value-added course titled: **pediatric conditions in orthopedics** on 18/6/20. We solicit your kind action to send certificates for the participants, that is attached with this letter. Also, I am attaching the photographs captured during the conduct of the course.

Kind Regards

Dr.shankarlal

PROFESSOR & HOD
Department of Orthopaedics
Sri Lakshmi Narayana Institute of Medical Sciences
Pondicherry - 605 502.



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