

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] [Affliated to Bharath University, Chennai - TN]

Date :07.04.2018

From DR.Vijayaragavan, Associate Professor and Head, Department of orthopaedics, SLIMS, Bharath Institute of Higher Education and Research, Pondicherry.

To The Dean, SLIMS, Bharath Institute of Higher Education and Research, Pondicherry.

Sub: Permission to conduct value-added course:Examination of hip joint.

Respected Sir,

With reference to the subject mentioned above, the department proposes to conduct a value-added course titled: **Examination of hip joint** on 25.05.2018. We solicit your kind permission for the same.

Kind Regards

DR.Vijayaragavan

FOR THE USE OF DEANS OFFICE

Names of Committee members for evaluating the course:

The Dean:DR.Jayalakshmi

The HOD:DR.Vijayaragavan

The Expert:Dr.Boblee james



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The committee has discussed about the course and is approved.

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Dean

Dr. G., JAVALAKSEDIL, ISE, MIDS, JYEL MD, DEAN 54 Jacobi Havyno Innia of Medial School Data, Agenes Katalakse, Mit Villane Communa Peterleny, 405 400.

Subject Expert

Department of Onthopaedics id Lakshmi Narayana Institute of Medical Sciences Pondicherry - 605 502.

HOD

Dr. R. YEMAA RAGIETAN, (M. Ang ve 6641) Intel Pointeel Entropeess Market State States Control One, September States States Control One, September Pointeel Ve



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<u>Circular</u>

07.06.2020

Sub: Organising Value-added Course: EXAMINATION OF HIP JOINT

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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 **EXAMINATION OF HIP JOINT.** 30 HRS& <u>MAY18-AUG18</u>

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 <u>MAY18-AUG18</u>. Applications received after the mentioned date shall not be entertained under any circumstances.

Dean

Dr. G., JAVALSKSENT, 102, 1405, 3112, AU DEAN Skildens instruction and diselections Grads. Agreen instruction. Au Water Common Instruction 40, 402



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Course Proposal

Course Title: Examination of hip joint

CourseObjective: evaluation of hip joint

CourseOutcome: how to examine the hip joint.

Course Audience: 24

Course Coordinator:DR.Jayalakshmi

Course Faculties with Qualification and Designation:

1.DR.Vijayaragavan DNB ORTHO

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

SlNo	Date	Торіс	Time	Hours
1	25/5/18	HISTORY	4-6pm	2hrs
2	31/5/18	GAIT	4-6pm	2hrs
3	7/6/18	LOCAL EXAMINATION	4-7pm	3hrs
4	14/6/18	SPECIAL TESTS	4-7pm	3hrs
		PRACTICAL:		
1	5/7/18	PRACTICAL SESSION	4-8	4
2	12/7/18	PRACTICAL SESSION	4-8	4
3	19/7/18	PRACTICAL SESSION	4-8	4
4	15/8/18	PRACTICAL SESSION	4-8	4
5	22/8/18	PRACTICAL SESSION	4-8	4
			Total Hours	30

REFERENCE BOOKS: 1)MANUAL ON CLINICAL SURGERY 2)CLINICAL ORTHOPAEDIC EXAMINATION

S.DAS RONALD MC RAE



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VALUE ADDED COURSE

1. Name of the programme & Code

Examination of HIP JOINT – OR08

2. Duration & Period

30 hrs & may 2018 - august 2018

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:

Multiple choice questions- Enclosed as Annexure- III

6. Certificate model

Enclosed as Annexure- IV

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

1 MAY 2018-AUGUST 2018

8. Year of discontinuation: 2019

9. Summary report of each program year-wise



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		Value Added Cou	rse- MAY- AUG 2	2018	
Sl. No	Course Code	de Course Name Resource Persons Target Students		Target Students	Strength &
					rear
1	OR08	EXAMINATION OF HIP JOINT	Dr. Vijayaragavan	THIRD YEAR ^t MBBS	24 (MAY 2018 – AUG 18)

10. Course Feed Back Enclosed as Annexure- V

RESOURCE PERSON DR.VIJAYARAGAVAN

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Dr. E. YEMAA SAGETAA, (HE.) Ang Sa 664's Inne Proteon University Bill Software Proteoners Bill Software Proteoners



COORDINATOR DR.JAYALAKSHMI

Dr. G. JAVALAKSIENIL soc. webs. prob. Md. DEAN SH Jabons Nanyasarintas of Medal Science Deats. Agence Responses, Med. Webs. Agence Responses, Md. Webs. Agence Responses, Md.



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EXAMINATION OF HIP JOINT

25/05/2018

EVALUATION OF HIP JOINT

Particulars	Description
Course Title	EXAMINATION OF HIP JOINT
Course Code	OR08
Objective	HISTORYGAITLOCAL EXAMINATION



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	•SPECIAL TESTS
Further learning	To examine other joints
opportunities	
Key Competencies	On successful completion of the course the students will have skill to
	examine hip joint
Target Student	Pre final yearStudents
Duration	30hrs MAY 18– AUGUST 2018
Theory Session	10hrs
Practical Session	20hrs
Assessment	Short notes
Procedure	

HISTORY:

CHIEF COMPLAINTS

1. PAIN

2. SWELLING :

3. DEFORMITIES

4. STIFFNESS

5. LIMP

PAST HISTORY:

•TRAUMA

•TB

•MEDICAL DISORDERS

•NEUROLOGICAL DISORDERS

•SURGERIES AROUND HIP



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GAIT:

Normal gait is rhythmical bipedal biphasic walking in which the lumbar

spine, hip and legs move in unison.

Limping is the most common abnormality, can be defined as abnormality

of rhythmical normal biphasic walking.

TYPES OF ABNORMAL GAIT:

•Antalgic gait

•Trendelenburg gait

•Waddling gait

•Circumduction gait

•Gluteus Maximus gait

•High stepping Gait

ANTALGIC GAIT:

• In painful condition,

patient walks with

reduced stance phase

on affected side

TRENDELENBERG GAIT:

Trendelenburg gait pattern

(or gluteus medius lurch) is an



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abnormal gait (as with walking)

caused by weakness of the

abductor muscles of the lower

limb, gluteus medius and gluteus

minimus.

WADDLING GAIT

•Both abductors of hip

paralyzed

•The patient bends his

trunk towards the stance

phase

CIRCUMDUCTION GAIT:

• Patient rotates the hip sideways

during swing phase due to hip

flexor tightness

•Absence of heel strike

GLUTEUS MAXIMUS GAIT:

• If paralyzed, posterior tilting.

• Centre Of Gravity shifts towards to

stance hip.



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• So while walking, forward and

backward movement of the trunk

occurs is called as 'rocking horse

gait

HIGH STEPPING GAIT

• High stepping (Neuropathic gait) is a

form of gait abnormality characterised

by foot drop due to loss of

dorsiflexion. The foot hangs with the

toes pointing down, causing the toes to

scrape the ground while walking.

LOCAL EXAMANIATION

•INSPECTION

- PALPATION
- MEASUREMENT
- MOVEMENT

INSPECTION:

STANDING: FRONT

- PELVIC TILTING
- MJSCLE WASTING
- DEFORMITY

SIDE :



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LORDOSIS

BACK:

- SCOLIOSIS
- GLUTEAL MUSCLE

WASTING

• SINUS SCARS

ATTITUDE:Fracture of the neck

of the femur:

Elderly patient lying

on the bed with externally

Rotated, lower limb

Anterior dislocation

of the hip:

Young patient lying with

externally rotated, slightly

abducted and

Flexed lower limb

Posterior dislocation

of the hip:

Young patient with flexed,

adducted and

Internally rotated lower limb

PALPATION



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•LOCAL RISE OF TEMPERATURE

•JOINT TENDERNESS

•FEMORAL PULSE

•SWELLING EXAMINATION

FEMORAL PULSE EXAMINATION

• In congenital dislocation, the head

of the femur is dislocated and this

bony support is missing.

• So there will be great difficulty in

feeling femoral artery.

• This is known as 'Vascular sign' of

Narath

MOVEMENTS:

FLEXION

- \bullet With the knee extended up to 90°
- With the bent knee the hip joint

can be flexed up to 120° **EXTENSION**

Up to 30

ABDUCTION

(0-40°)

ADDUCTION

 $(0-30^{\circ})$

ROTATIONAL MOVEMENTS



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INTERNAL ROTATION

(UPTO 30°)

EXTERNAL ROTATION

(UPTO 45°)

LIMB LENGTH

- APPARENT LIMB LENGTH
- Measured from

xiphisternum or umbilicus

to medial malleolus

- TRUE LENGTH
- Measured from ASIS TO

medial malleolus

INTERPRETATION:

TRUE SHORTENING =

APPARENT SHORTENING=NO COMPENSATION

TRUE SHORTENING >

APPARENT SHORTENING=DEFORMITY IS

COMPENSATED BY

PELVIS TILT

TRUE SHORTENING <

APPARENT SHORTENING=FIXED DEFORMITY

WITHOUT ANY

COMPENSATION



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SPECIAL TESTS

THOMAS TEST

• This test is used to diagnose fixed

flexion deformity of the hip.

• The examiner blocks the pelvis by

bringing the contralateral sound hip

into maximal flexion.

• This eliminates lumbar lordosis that

can be used to compensate for the

hip flexion contracture of the affected

hip.

• The leg to be examined is then brought into maximal extension with the hip in neutral adduction and rotation.

TRENDELENBERG TEST

• This test examine the strength of the abductor mechanism of the hip.

• Normally, in a one legged stance, the pelvis is raised up on the unsupported side. If the weight bearing hip is unstable, the pelvis drops on the unsupported side, to avoid falling the patient has to throw his or her



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body towards the loaded side.

• The patient stands on the unaffected lower

limb first, the buttock on the affected side

automatically rises. Next the patient stands

on the affected side, the pelvis on the

opposite (normal) side sinks as shown by

gluteal folds and iliac crest ..

• It indicates a defect in the Osseo-muscular mechanism between the

pelvis and the femur.

Causes for positive TRENDELENBERG TEST are

1. Weak abductors as in poliomyelitis, muscle dystrophies, MND

2. Congenital or Pathological dislocation of hip

3. Fracture neck of femur,

4. Coxa vara

5. Perthes' disease

6. Arthritis of hip joint.

BRYANT'S TRIANGLE.

• The patient lies in the dorsal position.

• A line is drawn vertically

downwards from the ASIS.

• Another from the tip of the

same spine to the tip of the



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greater trochanter and lastly a

horizontal line is drawn from

the tip of the greater

trochanter to the first line.

INTERPRETATION OF BRYANTS TIANGLE

• Diminution in the length of the last line or the horizontal line in comparison to the other side denotes an upward elevation of the greater trochanter, the commonest cause of which being the transcervical or subcapital fracture of the neck of the femur or separation of the upper femoral epiphysis.

• Diminution or increase in the length of the second line indicates the anterior or posterior displacement of the greater trochanter accordingly

NELATONS LINE

• The patient lies on his sound side. A line is drawn or a measuring tape is placed from the most prominent part of the ischial tuberosity to the tip of



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the ASIS.

• Normally, this line touches the

tip of the greater trochanter and

upward displaced of trochanter

can be easily demonstrated.

SCHOEMAKER'S LINE

• The line from the tip of greater

trochanter to the anterior superior

iliac spine prolonged anteriorly will

reach the umbilicus of the patient.

This is called Schoemaker's line.

• If the greater trochanter is elevated

the line will cross the midline below

the umbilicus.

CHIENE'S TEST

• A tape joining the tips of the greater trochanters is parallel to another joining the two anterior superior iliac spines.

• When a trochanter is raised, these two lines converge towards the affected side.

Morris 'BiTrochanteric Test

It measures the distance between the GT and pubic symphysis on

both sides

Reduced in hip dislocations



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OTHER EXAMINATION

• LYMPH NODES— Palpation of lymph nodes in inflammatory

conditions

• OTHER JOINTS like lumbosacral spine, sacroiliac joints, knee joints..

• PER RECTAL EXAMINATION

Done in tuberculous arthritis if an intrapelvic abscess is suspected



OFFICE OF THE DEAN

Sri Lakshmi Narayana Institute of Medical Sciences

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7	AKSHYA JI.	U16MB257	Abinay				
8	ALLAIU KARTHIK	016M8258	AKBL				
9	AMAL ASHOK	U16MB259	foral				
10	AMIRTHAVARSHNI B	U16MB260	Vanishing				
11	ANANYA SHARMA	UIGMBZ01	Aurya				
12	ANGALAKUDURU DEEPCHAND	U16M0262	speepan.				
13	ANIAN BANERJEE	U16MB263	Burgaria.				
14	ANWESHA CHATTERIEE	U16MB264	Anwerk				
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22	ANTRAL PATPATIA	U165(827)	2 Aunal				

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RESOURCE PERSON DR.VIJAYARAGAVAN

> Dr. E. YEMAA SAGETAN, (M.) Ang sa 69410 Inter Proteor Chicogeoso Bill Anthe Sansa Hala S Matchington Cast, Satetanin, Prochervist No.

COORDINATOR DR.JAYALAKSHMI

Br. C. 14791 AKSEMI, 40 JANE, 41 JANE, SEAR Billing throws there a statistic form their Agence statistics for Statistic Conserve Statistics Fig. Statistic Conserve Statistics Fig.



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	Course/Training Feet	fhack Form	
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Nameibalaji.s Res NO			
Department:ORTHO			
Q 1: Please rate your ov	enall satisfaction with the forma	it of the course:	
a. Excellent	Cry Good c. Satisfactory	d. unsetiafactory	
	- Providence - Construction		
Q 2: Please rate course i	icites:		
a Excellent	Wery Good a Satisfactory	d. unsatisfactory	
	14.41.17		
A St The fecture sequent	b. Very Good c. Satisfactory	d. unsatisfactory	
O.4: The lectures were o	lear and easy to understand		
a. Excellent	b. Very Good c. Satisfactory	d. unsatisfactory	
O 5-Please rate the quali	ty of one-course administration a	and information:	
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Q is Any other suggestic Comments	senat		
Thank you for taking th	e time to complete this survey	, your comments are much ap	preciated.
OPTIONAL Section: No	me		
Signature		Duté	÷



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g. Inspilling of the sound ge Palfahing the sound ge the special will for the sound ge box special will for the sound. (i)ANSWERS 16 D INVECTION OF HIP JOINT 20 of Will Patient Standing. i'v Grow Front - Level of Shouldure; Finterson Sufarion Here - There toman from fold; Palesa, tool ing from Side - Lunder Lordebills; Almornal frobusion of abdomen / buttocks; supras Infra Trachandrad af from Back - skatula, control furrow own shine (section lowbruer Sutine ? such shine (Swith of man), & hered forder - lofe teal tom - Hull i) with patient sitting : biginfrom of sectiones from the of With patient susine : Attactude of houser hand of films, a) Will faint Prove : Tor palente and cannot stand for pate bud some + GAIT. L

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PUDUCHERRY - 605 502.

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	Particulars	1	1	3	4	5
1	Objective of the course is clear	-		250	1	/
2	Course contents met with your expectations					-
3	Lecturer sequence was well planned					1
4	Lectures were clear and easy to understand					1
5	Teaching aids were effective					1
6	Instructors encourage interaction and were helpful					1
7	The level of the course					
8	Overall rating of the course		2	-	4	5
Sugges	ions if any:					
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Date:22.08.2018

From DR.Vijayaragavan, Department of orthopaedics, SLIMS, Bharath Institute of Higher Education and Research, Pondicherry.

Through Proper Channel

To The Dean, SLIMS, Bharath Institute of Higher Education and Research, Pondicherry.

Sub: Completion of value-added course: Examination of hip joint

Respected Sir,

With reference to the subject mentioned above, the department has conducted thevalue-added course titled: **Examination of hip joint** on 22.08.2018. 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.VIJAYARAGAVAN



Encl: Certificates

Photographs



Sri Lakshmi Darayana Institute of Medical Sciences osudu, agaram village, villianur commune, kudapakkam post, puducherry - 605 502.

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