

Course Outline

1st International Course on Intraoperative Ultrasound in Neurosurgery

13-14th Dec 2019

Mumbai

Day 1 (Fri, 13th Dec)

8 am Registration

8.20 am Opening Remarks

8.30 -10.30 am Lectures – **Part I – Theoretical Background** Dr A Goel, Dr C Deopujari

Introduction/ Basic Physics/ Semiology/ Sonographic anatomy

Why US – perspective vis a vis other modalities? -Geirmund Unsgaard (Norway)

The Nuts and Bolts - Physics of US for neurosurgeons - Amit Janu (India)

What is in a name!! - US semeiotics and semantics -Francesco Prada (Italy)

Befriending US - Understanding the US machine (knobology and probes) - Arpita Sahu (India)

Seeing is believing - US Anatomy unravelled - Francesco DiMeco (Italy)

Getting Started – How I do it - Aliasgar Moiyadi (India)

10.30 am - Coffee Break

11.00 onwards – **Part II (Practical aspects)** Dr V Velho, Dr K Turel

Live Surgery relay

12 noon - Revealing the secrets - Acquiring an optimal scan and artefact

avoidance – Tips and Tricks - Geirmund Unsgaard (Norway)

Discussion of Live relay

12.30-1.00 pm – Working lunch

1.00 pm – Continue Live relay

1.45 pm– **Part III (Applications)** – Dr Datta Muzumdar

Proof of the pudding (Applications) –

Clinical Applications in Oncology – nav US and fusion imaging -AM

Clinical Applications in Vascular and Skull Base -GU

Clinical Applications in Pediatrics -LP

Newer Aspects - CEUS/ Elasto/ therapeutic -FP

3.00 pm – Coffee Break

3.15 pm IOUS around the world - Global Experiences (7 min each) – Shabbar Danish

Course Outline

IOUS in Endoscopy

-CE Deopujari (India)

Direct NUS

- A Moiyadi (India)

IOUS in SA

- Llewellyn Padayachy (S Africa)

4 pm **Part IV - Simulation**

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Francesco DiMeco/ Alessandro Perin

5.30 pm End

Course Outline

Day 2 (Sat 14th dec)

8.00 am – Overview for the day. Divide all into 4 batches (of 6-10 each depending on the total number of registrations)

8.10-9.40 am : Hands on Module 1

9.50- 11.20 am : Hands on Module 2

Coffee break

11.30—1.00 Pm : Hands on Module 2

1-1.30 pm : Lunch

1.30-3.00 pm: Hands on Module 4

3-3.15 pm : Coffee break

3.15 – 3.45 pm: Course Review

Adjourn

3.45- 5.30 pm Meeting to Review and Plan ahead

The Hands-on modules would comprise:

Module 1 : Machine setup/ knobology and probes and their adjustment/ Semeiology

Module 2 : Technique of insonation/ Localization/ Tumor insonation

Module 3: Target localization (orthogonal imaging) / Cyst aspiration / Resection control / Hand-eye coordination

Module 4 : Navigated US

Hand-on system

Course Outline

Faculty:

International

Geirmund Unsgard, Norway (GU)

Francesco DiMeco, Italy (FD)

Francesco Prada, Italy (FP)

Llewellyn Padachy, South Africa (LP)

Alessandro Perin (AP)

Local Faculty

Aliasgar Moiyadi (AM)

Prakash Shetty (PS)

Vikas Singh (VS)

Abhishek Mahajan

Amit Janu

Arpita Sahu

National Faculty

B K Misra

C E deopujari

Keki turel

Atul Goel

Suresh Sankhla

Datta Muzumdar

Vernon Velho

T D Nadkarni

Batuk Diyora