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 semiotics 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
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IOUS in Endoscopy - CE Deopujari (India)
Direct NUS - A Moiyadi (India)
IOUS in SA - Llewellyn Padayachy (SA)

4 pm **Part IV - Simulation** - Francesco DiMeco/ Alessandro Perin
5.30 pm End
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