



**Barts Health**  
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# **HYCOSY, SIS & 3D USS Workshop**

**12.05.2023 - Friday**

**Centre for Reproductive Medicine, St. Bartholomew's Hospital**  
**Queen Mary University London**

**International Society of Reproductive Surgery and Fallopian Tubes**



## **Aim of this course:**

It is a long day workshop with practical “hands on” course to learn about Hystero Contrast Sonography (HYCOSY), Saline Infusion Sonography (SIS) and 3D Ultrasound Scan (3D USS). This course aims at clinicians and ultrasonographers experienced in transvaginal gynaecological scan who wish to learn the ultrasound techniques of tubal patency testing, uterine cavity assessment and 3D gynaecological scan. The aim is to promote safe and competent clinical use of HYCOSY and 3D ultrasound in diagnosing gynaecological pathologies like uterine anomalies and assessing tubal patency. We intend to extend the knowledge on principles of 3D ultrasound and power Doppler, 3D image volume acquisition and application of post-processing software in gynaecology. This intensive course is structured to give both theoretical and practical component with incorporating lectures having plenty of videos and pictures and hands on experience with patients.

## **The workshop consists of**

It is a combination of lectures, hands on practical sessions and demonstration of storage and interpretation of stored 3D images and videos.

The First session will be lecture based providing theoretical information on above procedures. The second session will be practical “hands on” live sessions. A group of 4 delegates will be with 4 clinicians (4 each) attending 4 stations including live patient SIS and HYCOSY session. This will be followed by evening session on 3D scan.

AM – Lectures

PM – Group of 4 delegates, hands on, 4 stations

Evening– Lectures

**Who should attend:** Gynaecologists, radiologists or senior sonographers, who can perform gynaecology scans.

## **After completing the course, you will be able to**

- Be familiar with SIS, HYCOSY and 3D scan procedures
- Will be able to assess the uterine cavity pathology such as polyps, fibroids; uterine developmental anomalies; and the tubal patency and tubal pathology.
- Will be able to interpret Ovarian and adnexal pathology including assessment of Antral Follicular Count (AFC).
- Will be able to record and reconstruct 3D images.
- Will be able to provide a clear report of the scan findings.



# Overview



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## Course organiser

Centre for Reproductive Medicine, St. Bartholomew's Hospital, London  
International Society of Reproductive Surgery & Fallopian Tube Society

Ms. Jyotsna Pundir, Consultant Gynaecologist, Subspecialist in Reproductive Medicine, Centre for reproductive medicine, St. Bartholomew's Hospital. Honorary senior lecturer, QMUL.

Ms Sheetal Barhate, Specialist Doctor, Centre for reproductive medicine, St. Bartholomew's Hospital. Honorary senior lecturer, QMUL.

Mr. Kamal Ojha, Consultant Gynaecologist and Honorary Senior Lecturer, St. Georges Hospital, Tooting, London. Medical Director Concept Fertility Clinic, Wandsworth, London.

Mr. K. Jayaprakasan, Consultant Gynaecologist and Subspecialist & Honorary Associate Professor in Reproductive Medicine, Royal Derby Hospital, Derby and University of Nottingham.

Deborah Wall and Simona Matkovicova – senior nurses, Centre for reproductive medicine, St. Bartholomew's Hospital.

## Organising Team

Ms Litha Pepas, Mr Ramesan Navaratnarajah, Ms Rumana Islam

Mr Ismail Wong, Ms Sanjula Sharma, Ms Anupama Shahid, CRM Nursing and Admin team

**Cost: £500**

## To register:

For registration, please email Claire Rudd [crudd@conceptfertility.com](mailto:crudd@conceptfertility.com) with the registration form. Registration fee can be paid through electronic transfer (Account Name: Gynaecology Ultrasound Training; Sort code: 090129; Account No. 40911823).

## REGISTRATION FORM

PLEASE PRINT

LAST NAME:

FIRST NAME:

DESIGNATION:

PLACE OF WORK ADDRESS:

POST CODE:

CONTACT: Mobile : \_\_\_\_\_; EMAIL: \_\_\_\_\_



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## Programme

08.00 - Registration

08.20 - Welcome and Introduction

### Session 1

08:30 - Setting up the machine & safety; How to optimise the ultrasound image

09:00 - 2D/3D ultrasound : Uterus and Ovaries; Systematic evaluation of normal pelvic anatomy including cyclical changes

09.30 - The role of HyCoSy and Aquascan in the investigation of the infertile patient - Uterine cavity assessment before fertility treatment

10.00 - Principles of HyCoSy and Aquascan – Patient preparation and technique— Video demonstration

10.30 - Practical demonstration of cannulation using models and priming catheters\*

11.00 Management algorithm of uterine and tubal abnormalities

### 11.30 – Coffee/Tea

### Session 2

12:00 – Principles of 3D scanning

12:30 - Clinical applications of 3D ultrasound in gynaecology: Uterus in diagnosing various uterine pathologies particularly uterine anomalies

13.00 - Clinical applications of 3D ultrasound in gynaecology: Ovary. to get objective volume and blood flow measurements and its potential clinical application in Gynaecology & Infertility

### 13.30 - Lunch



**10.06.2022 - Friday**



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## **Programme**

### **Session 3 - 14.00 – 16:40**

Divide into small groups for live demonstration of HyCoSy + SIS\*

AND

Hands on scanning for (patients & phantom) 3D Volume acquisition / post-processing

4 Stations: 2 for HYCOSY/2 for 3D Phantom

14:00, 14:40; 15:20; 16:00

### **16:40 – Coffee/Tea**

### **Session 4**

17:00 - Clinical applications of 3D ultrasound in gynaecology: Early pregnancy. Potential application in diagnosing some early pregnancy problems

17:30 - Essential tips for report writing

18:00 – Feedback, discussion, concluding remarks and close

