

University of Bolton Certificate Course
Ultrasound Imaging in Reproductive Medicine
Online 1 day course - 26th April 2023



Target learners: Doctors, nurses and ultrasonographers and trainees in Reproductive Medicine

Module 1: Uterus and Endometrium - 9am - 10:55am

TIME	TOPIC	
9-9:25am	1. Basic ultrasound physics and imaging modes; 2D, 3D and Doppler. - Professor Campbell (UK)	25 mins
9:25-9:50am	2. Transvaginal ultrasound, basic 2D scanning techniques and application of advanced technology 3D and Doppler. - Professor Campbell (UK)	25 mins
9:50-10:15am	3. Imaging of the uterus in health and disease. 3D for classification of fibroids and Mullerian abnormalities. Diagnosis and significance of Adenomyosis. - Dr Jayprakashan Kanna (UK)	25 mins
10:15-10:40am	4. Imaging of the endometrial morphology and blood flow throughout the menstrual cycle. Importance of 3D imaging of the junctional zone. Doppler studies of endometrial receptivity. Diagnosis and significance of endometrial polyps. Diagnosis of Caesarean section scar dehiscence. Significance and treatment of endometrial fluid. - Professor Campbell (UK)	25 mins
10:40-10:55am	Questions and Answers - 15 mins	
10:55-11:15am	Coffee and tea break - 20 mins	

Module 2: Ovary and ovulation - 11:15am - 1:10pm

TIME	TOPIC	
11:15-11:40am	1. Ovarian physiological changes using 2D and Doppler during menstrual cycle including ovulation. Measurement of multiple follicles. Diagnosis of PCOS by AMH and AFC. - Prof Geeta Nargund (UK)	25 mins
11:40-12:05am	2. Prediction of ovarian reserve, antral follicle count (AFC) and stromal flow. Association of low stromal flow and AFC with age. - Prof Geeta Nargund (UK)	25 mins
12:05-12:30am	3. Perifollicular flow in predicting oocyte maturity and timing of trigger injection. 3D of follicular wall; functional and dysfunctional follicles. - Prof Geeta Nargund (UK)	25 mins
12:30-12:55am	4. Prediction and management of OHSS High stromal flow in PCOS and use in the prediction of OHSS. - Dr Adrija Datta (UK)	25 mins
12:55-1:10pm	Questions and Answers - 15 mins	
1:10-1:40pm	Lunch - 20 mins	

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Module 3: Adnexal cysts and operative procedures - 1:40pm - 3:10pm

TIME	TOPIC	
1:40-2:05pm	1. Ovarian tumours during reproductive years. Diagnostic and management criteria. When to operate. Other adnexal cystic structures e.g. peritoneal pseudocysts and hydrosalpinges. - Professor Campbell (UK)	25 mins
2:05-2:30pm	2. MRI vs Ultrasound in different clinical situations. Comparison of TV ultrasound with hysteroscopy to exclude endometrial pathology – competitors or complementary? - Dr Archana Ranganathan (UK)	25 mins
2:30-2:55pm	3. Overview of advanced ultrasound techniques - do they really make a difference? - Prof Geeta Nargund (UK)	25 mins
2:55-3:10pm	Questions and Answers - 15 mins	

3:10-3:30pm	Coffee and tea break - 20 mins
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Module 4: Ultrasound guided procedures - 3:30pm - 5:25pm

TIME	TOPIC	
3:30-3:55pm	1. HycoSy - Dr Spiros Liatsikos (UK)	25 mins
3:55-4:20pm	2. Saline Sonography - Dr Fotodotis Malamas (UK)	25 mins
4:20-4:45pm	3. Ultrasound-guided oocyte collection - Dr Abhijit Kulkarni (UK)	25 mins
4:45-5:10pm	4. Transabdominal Ultrasound guided Oocyte collection - Dr Tamer Nafee (UK)	25 mins
5:10-5:25pm	Questions and Answers - 15 mins	