

Cardiac CT Learning Topics

Topic	Speaker
Physics of cardiac CT, including spatial and temporal resolution, methods of ECG-gating, and image optimisation	Andrew Shah, Medical Physicist and Head of Radiation Protection, East and North Herts
Radiation dose in Cardiac CT – assessment and optimisation	
Clinical indications of Cardiac CT – an overview	Dr. Tarun K. Mittal, Consultant Cardiothoracic Radiologist, GSTT
Cardiac CT – Contrast and Drugs used - pharmacokinetics, contraindications, dosage, complications, and their management	Dr. Carol Ridge, Consultant Cardiothoracic Radiologist, GSTT
Cardiac CT – Patient preparation, contrast, and performing of scan (a general lecture with some focus of GE CT scanners)	Lucy Berry, CT superintendent, Harefield Hospital
Cardiac CT – Patient preparation, contrast, and performing of scan (a general lecture with some focus of Siemens CT scanners)	Dr. Mona Sriharan, Consultant Cardiothoracic Radiologist, Princess Royal Hospital, KHP
Anatomy of heart on Cardiac CT – coronary arteries and non-coronary cardiac anatomy	Dr. Tarun K. Mittal, Consultant Cardiothoracic Radiologist, GSTT
Systemic assessment of coronary and non-coronary structures on Cardiac CT	
Cardiac CT for cardiovascular risk assessment in asymptomatic people	
Use of cardiac CT in stable chest pain, including review of guidelines and evidence	Dr. Alexandros Papachristidis, Consultant Cardiologist, KHP
Use of cardiac CT in acute chest pain, including review of guidelines and evidence	Dr. Tarun K. Mittal, Consultant Cardiothoracic Radiologist, GSTT
Use of cardiac CT to assess cardiac chambers and function	
Use of cardiac CT to assess ischaemia (including FFR-CT) and viability	Dr. Saeed Mirsadraee, Consultant Cardiothoracic Radiologist, GSTT
Assessment of coronary artery anomalies with cardiac CT	Dr. Tom Semple, Consultant Cardiothoracic Radiologist, GSTT
Assessment of simple congenital heart disease with cardiac CT	Dr. Tarun K. Mittal, Consultant Cardiothoracic Radiologist, GSTT

Evaluation of coronary artery stents with cardiac CT	Dr. Evangelos Skondras, Consultant Cardiothoracic Radiologist, GSTT
Evaluation of coronary artery bypass grafts with cardiac CT	Dr. Tarun K. Mittal, Consultant Cardiothoracic Radiologist, GSTT
Cardiac CT for the assessment of pericardial diseases	Dr. Bhavin Rawal, Consultant Cardiothoracic Radiologist, GSTT
Cardiac CT for the assessment of cardiac masses	
Cardiac CT for assessment of valvular heart disease	Dr. Tarun K. Mittal, Consultant Cardiothoracic Radiologist, GSTT
Cardiac CT for assessment of valvular heart disease interventions	Dr. Saeed Mirsadraee, Consultant Cardiothoracic Radiologist, GSTT
Cardiac CT for the assessment of thoracic aortic diseases	