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| * + - 1. Diagnostic Radiology

Conventional & Digital RadiologyInterventional RadiologyAngiographyMammographyDental RadiologyContrast MediaImage ArtifactsPatient DosimetryRadiation ProtectionPersonnel DosimetryImaging & Image ProcessingQuality Control* + - 1. Computed Tomography Scan

Multislice CTContrast MediaPatient DosimetryRadiation ProtectionPersonnel DosimetryImaging & Image ProcessingImage ArtifactsQuality Control* + - 1. Magnetic Resonance Imaging (MRI)

Pulse SequencesMR InstrumentsMagnetic Resonance Angiography (MRA)Magnetic Resonance Spectroscopy (MRS)MRI ArtifactsMRI SafetyPatient ScreeningContrast MediaImaging & Image ProcessingQuality Control* + - 1. Radiobiology

Biological Effects of Ionizing RadiationsRadiation Sensitivity FactorsDose-Response RelationshipsRisk EstimatesBiological Effects of Non-Ionizing Radiations* + - 1. Sound & Ultrasound

Imaging & Image ProcessingImage ArtifactsQuality ControlContrast Media* + - 1. Nuclear Medicine

Hot LabGamma CameraSPECTPETDual-modality imaging systemImaging & Image ProcessingImage ArtifactsQuantitative techniquesQuality Control* + - 1. Radiotherapy

LINACBrachytherapyTreatment PlanningPatient DosimetryQuality Control* + - 1. Environmental Radiation

Natural Environmental Radiation MonitoringRadon MonitoringEnvironmental Radiation ProtectionRadiation Effects* + - 1. Lasers & Optics

Imaging & Image ProcessingImage Artifacts* + - 1. Nanomedicine

Molecular Imaging (theranostics nanoparticles)Medical Education* + - 1. Medical Education

Student Assessment & Evaluation   Clinical Skills TrainingClinical Competence Assessment Communication Skills TrainingStudent Characteristics Objective Structured Clinical Exam (OSCE)Professionalism in Medicine  (incl. Attitudes, Cultural Competence, Ethics)Faculty DevelopmentUse of simulations |