

This Exam Outline was developed to help you prepare for the knowledge exam.

This Exam Outline is not meant to cover all aspects of the knowledge exam, but to guide your preparation for questions that may occur in the knowledge exam.

Review:

- Medication dose calculations
- Common medications indications, contraindications, side effects,
- MPR planes
- Injection rate calculations
- Spinal anatomy and physiology
- Arterial/venous anatomy
- Common benign masses recognition, treatment
- Types of CT imaging
- Definition
 - Spatial/temporal resolution
 - Claudication
 - Thrombosis
 - PACS
 - Prospective gating
 - ALARA
- Equipment calibration schedules
- Radiographic energy absorption rates
- Vascular access complications recognition, management
- Contrast Induce Nephropathy recognition, management
- Dissection classifications
- Normal lab result ranges
- MDCT scoring
- Venous thrombosis recognition, treatment, imaging
- Enhancement and reduction of radiation beam intensity
- CT scanner components and abilities
- Communication techniques
- Hounsfield unit measurements (CT number)
- First CT system
- Coronary phases to include contraction, diastole, injection, systole
- Increasing or reducing pitch consequences
- Infection prevention techniques
- Abdominal anatomy
- Roles and responsibilities of the CT team
- Window settings