

Virtual Cardiac CTA

Meets American College of Radiology's guidelines for Cardiac CTA accreditation.

Lecture: **Cardiac CTA Introduction**

Cardiac CTA basics, coronary artery stent imaging and evaluation, clinical applications, cardiac cta reading and reporting essentials are reviewed.

Case Reviews: (15 Cases)

3D Workstation instruction and buttonology review
Normal and early coronary artery disease

Lecture: **Clinical Indications and Patient Selection**

Lecture reviews the published ACC/AHA guidelines for appropriate use of Cardiac CT. Patient selection based on comorbidity, body habitus, risk, and factors which may affect study quality are reviewed.

Case reviews: (25 Cases)

Moderate Coronary Artery Disease
Coronary Anomalies

Lecture: **Artifacts in CT Angiography**

Factors which contribute to artifacts, and effect the accuracy and value of the study are reviewed. Motion artifacts, mis-registration, blooming artifacts, beam hardening are discussed. Methods to avoid artifacts and techniques to assist in interpretation when they are present are discussed.

Case reviews: (25 cases)

CTA Artifacts
Cardiac, Non-coronary Pathology

Lecture: **CT Scanning Techniques and Radiation Sparing Protocols**

This lecture provides a step by step description of how to prepare a patient for Cardiac CT and how to achieve a good quality image. Retrospective and prospective gating techniques are discussed. Methods to minimize contrast and radiation dose are emphasized.

Lecture: **Coronary Calcium Scoring**

The usefulness of coronary calcium scoring in symptomatic and asymptomatic patients is reviewed. The current AHA/ACC guidelines for use of coronary calcium scoring are discussed. The body of literature supporting the guidelines is presented.

Case reviews: (25 cases)

Non-cardiac pathology
Severe Coronary Disease

Lecture: **Building a Successful Cardiac CTA Program**

This lecture reviews the essential infrastructure to support a cardiac CT program. Equipment, technologist and nursing training, and physician credentialing. Marketing strategies with an emphasis on evidenced based medicine are reviewed.

Case reviews: (10 cases)

Analysis of Coronary Stents
Coronary Bypass Surgery