

Poster #: 7

Title of Clues to Vascular Pathology on Noncontrast CT scan

Abstract:

Institution: North Shore University Hospital

Authors: 1st author: Jennifer L. Berkowitz, MD 2nd author: Priya K. Shah, MD 3rd author: Gregory M. Grimaldi, MD

Modality: CT

Organ System: Multi

Intro: N/A

Purpose: N/A

Methods Used: N/A

Results of N/A

Abstract:

Discussion: N/A

Scientific and/or Clinical Significance? N/A

Relationship to existing work N/A

Purpose/Aim: Evaluation of vascular pathology is limited on non-contrast CT. However, there are several important findings on non-contrast CT, which may alert the radiologist to important vascular pathology. We hope to demonstrate these key non-contrast CT imaging characteristics. Content Organization: 1. Evidence of venous thrombosis a. Hyperdense, expanded vessel b. Perivenous infiltration 2. Collateral Vessels (venous) a. Cross-Pelvic b. Chest Wall c. Intra-abdominal d. Shunts 3. Arterial Dissection a. Intimal flap b. Intramural hematoma c. Medial displacement of calcium d. Perivascular infiltration 4. Evidence of AV Fistula, Aneurysm 5. Congenital venous anomalies associated with disease Major Teaching Points: Non-contrast CT is routinely performed for certain indications such as renal stone disease and evaluation of suspected retroperitoneal hematoma. In addition, its utilization has increased in the inpatient setting where many patients are unable to receive intravenous contrast due to diminished renal function. The radiologist should be aware of key imaging findings on non-contrast CT, which may be indicative of vascular pathology.