

CA120-ED-X

CT Angiographic Evaluation of Left Ventricular Assist Devices Including Normal Post-Operative Imaging and Common Complications

All Day Room: CA Community, Learning Center

Patrick M. Couture, MD, Nashville, TN (*Presenter*) Nothing to Disclose
Kim L. Sandler, MD, Nashville, TN (*Abstract Co-Author*) Nothing to Disclose
Murray J. Mazer, MD, Nashville, TN (*Abstract Co-Author*) Nothing to Disclose
Jennifer Robinson Williams, MD, Nashville, TN (*Abstract Co-Author*) Nothing to Disclose

TEACHING POINTS

The purpose of this exhibit is as follows: Define normal origin and insertion of two frequently used ventricular assist devices (VAD) including anomalous or alternative inflow and outflow attachment sites Present baseline imaging in patients without complication following VAD placement Describe and categorize subsequent imaging (both radiographs and CT angiography) with identified complications (VAD thrombosis, mediastinal hematoma, etc.) Review indications for obtaining CT angiography in context of previous VAD placement

TABLE OF CONTENTS/OUTLINE

Intended anatomic appearance of VAD hardware, inflow and outflow tracts Conventional cardiac anatomy Transposition of the great vessels Imaging of VAD-related complications Extravasation Diaphragm Defect Pump Thrombus Mediastinal hematoma Hemothorax Indications for imaging VAD components Protocoling imaging for a patient with a VAD