



Live Expert Cardiac Anatomy



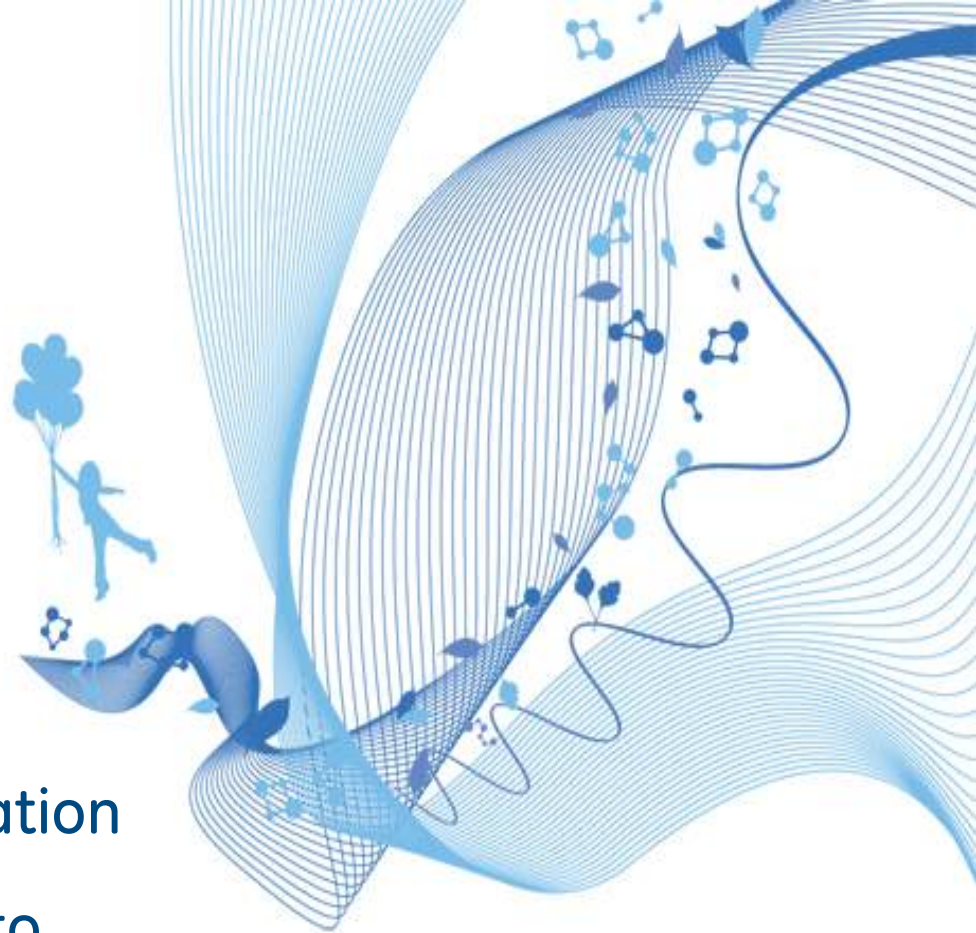
Imagination at work.

Training in Partnership

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CONTENT

- ❑ **Overview & Objectives**
- ❑ **Common Cardiac Abbreviation**
- ❑ **Axial Plane Non-Contrast to Contrast Comparison**
- ❑ **3D VR and MIP Model Correlation to Axial Plane**



OVERVIEW

This module identifies typical anatomic structures and vessels of the heart on CT axial images, MIP and VR models

Audience

Radiologic Technologists performing CT Cardiac Studies

Course Length

This module takes about **60** minutes to complete.

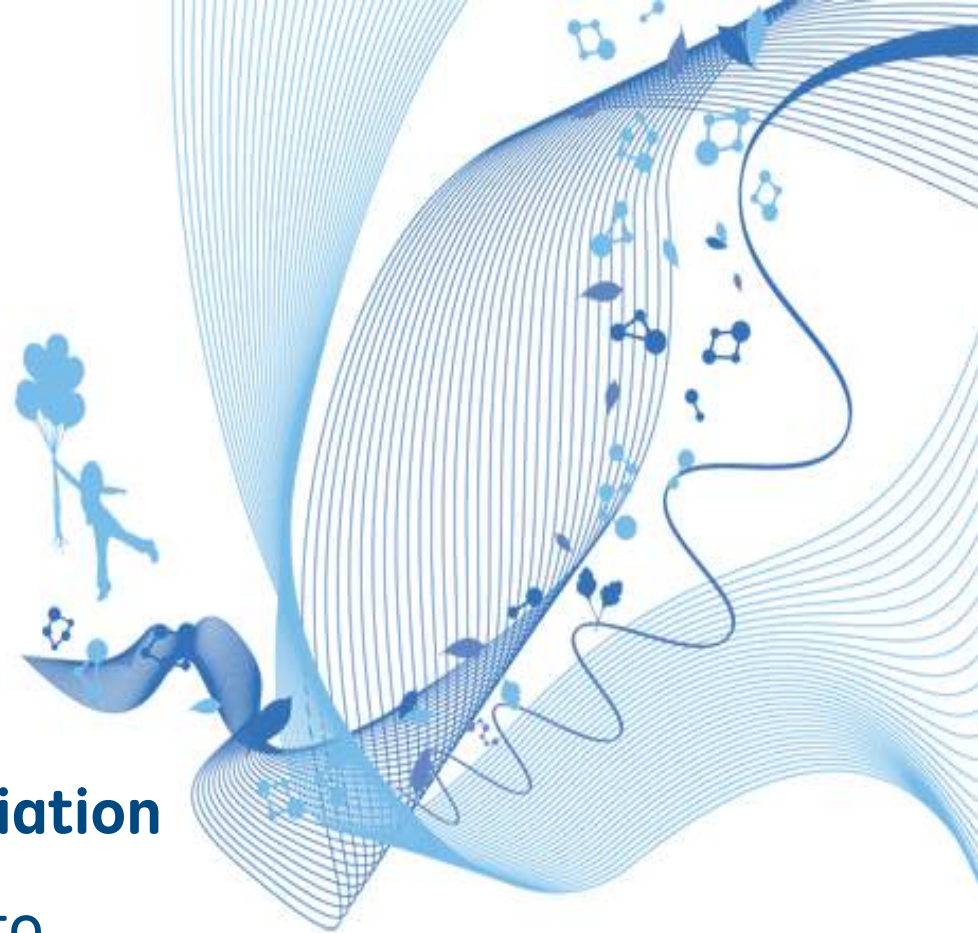
LEARNING OBJECTIVES

Upon completion of this module the participant will be able to:

- List typical abbreviations used in cardiac anatomy
- Identify heart chambers & major vessels on CT images
- Identify typical vasculature of the heart in the axial plane
- Identify typical vasculature of the heart on MIP and VR models

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COMMON ABBREVIATION

RCA - Right Coronary Artery

PDA - Posterior Descending Artery

PLB - Posterior Lateral Branch

LMA - Left Main Artery

LAD - Left Anterior Descending Artery

1st Diag - 1st Diagonal Artery

RI - Ramus Intermedius

LCX - Left Circumflex Artery

OM 1 - 1st Obtuse Marginal Artery

OM 2 - 2nd Obtuse Marginal Artery

COMMON ABBREVIATION

A. Aorta - Ascending Aorta
D. Aorta - Descending Aorta
PA - Pulmonary Artery
PV - Pulmonary Vein
LA - Left Atrium
LAA - Left Atrial Appendage
LV - Left Ventricle
RV - Right Ventricle
RA - Right Atrium

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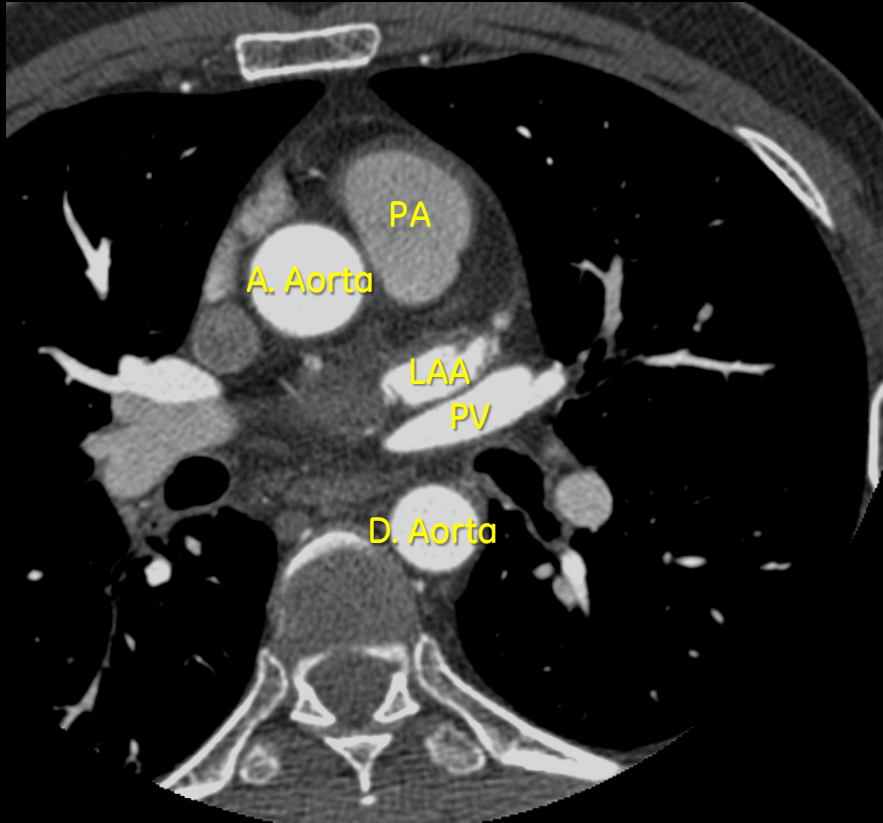


Axial Plane Non-Contrast to Contrast Comparison

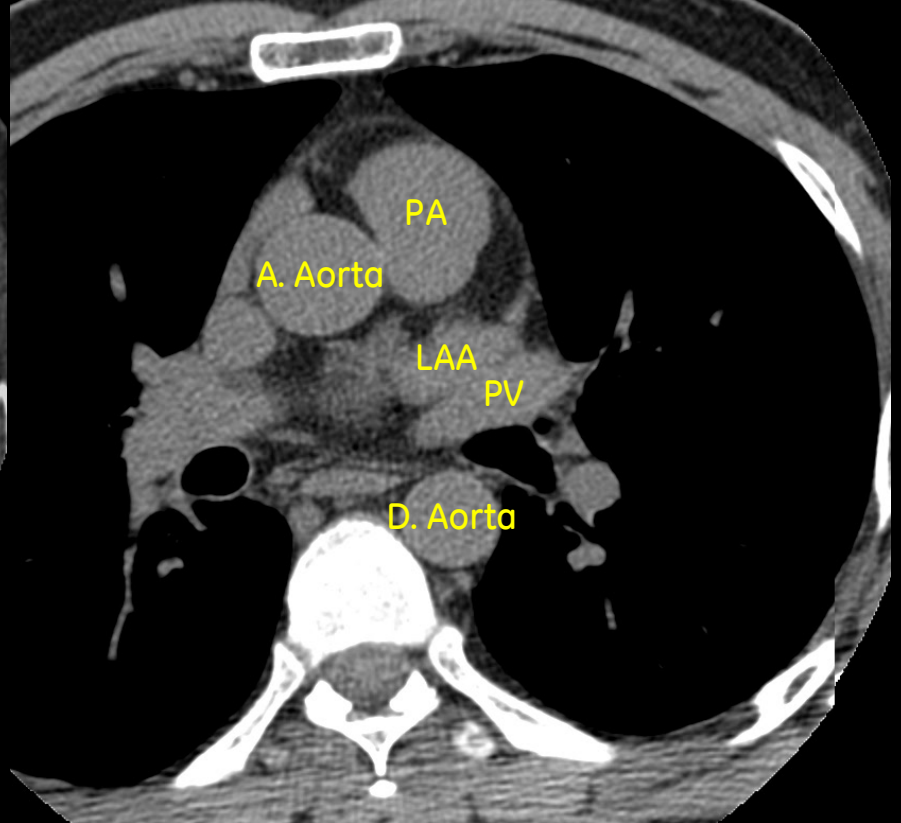
SmartScore and CCTA

The following images were acquired during a SmartScore exam and Coronary CTA exam on the same patient using a GE LightSpeed VCT scanner courtesy of Dr. James Earls M.D. of Fairfax Radiology.

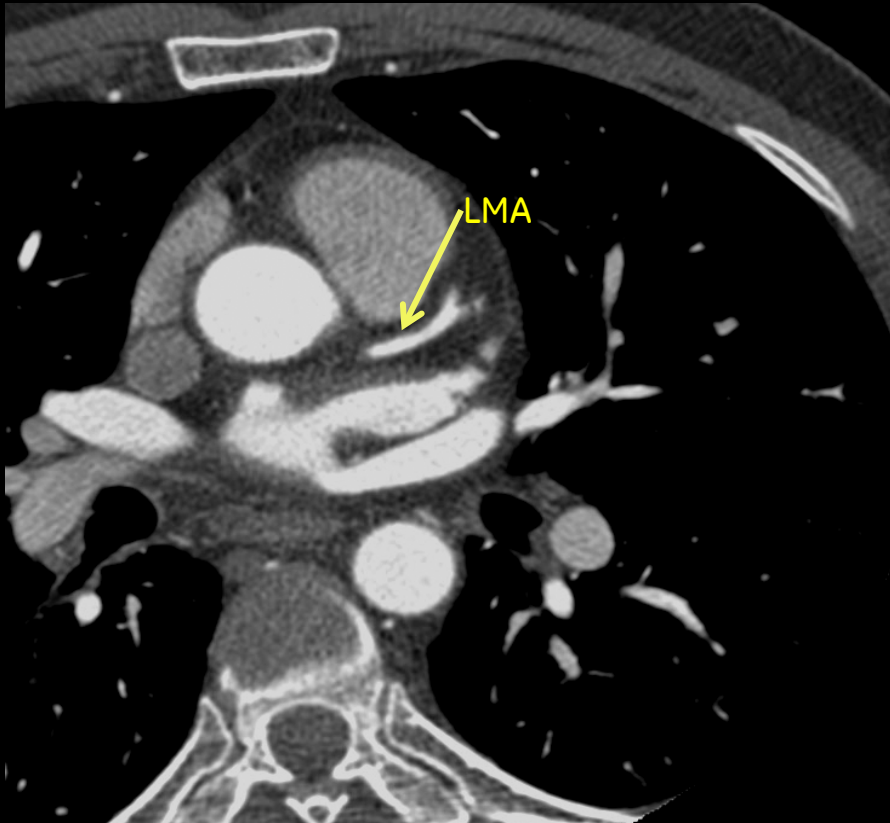
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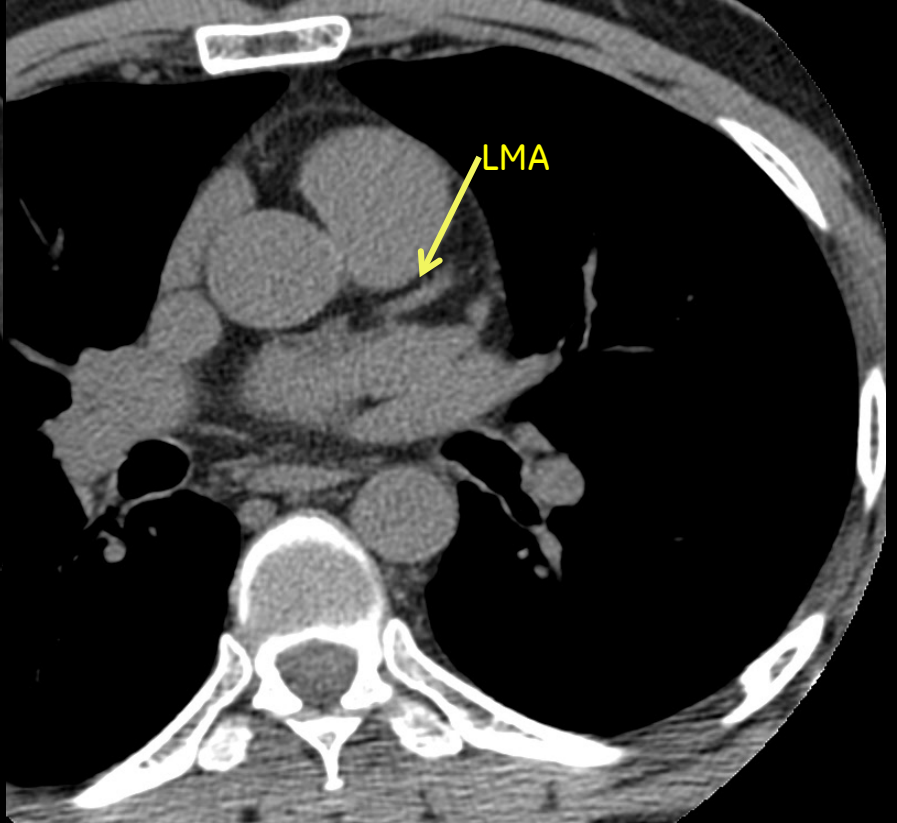
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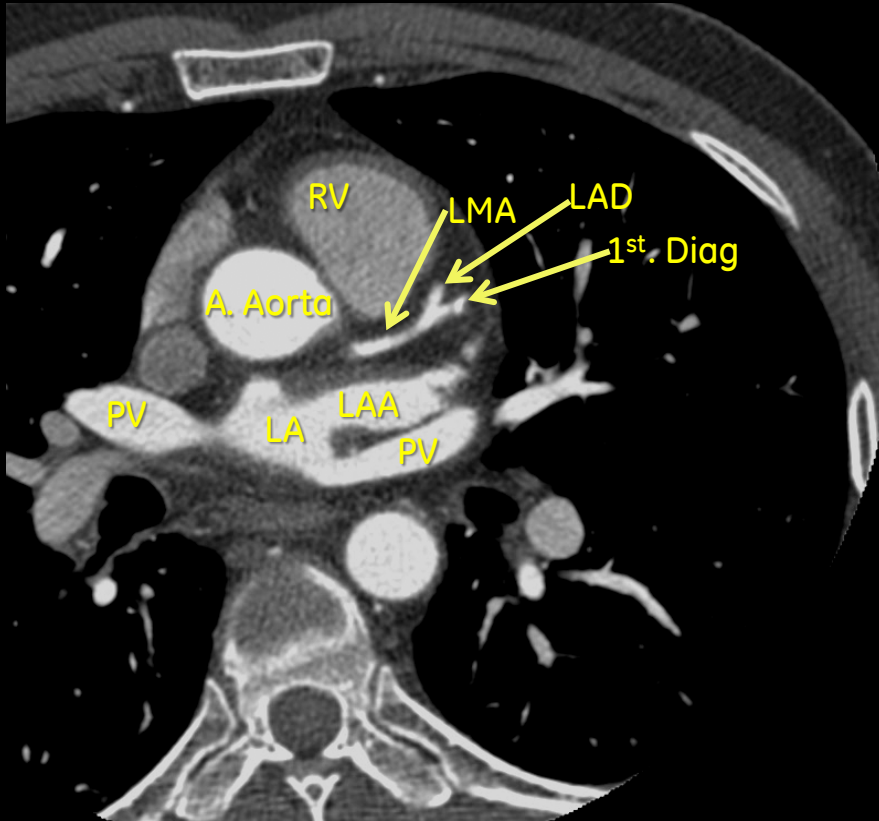
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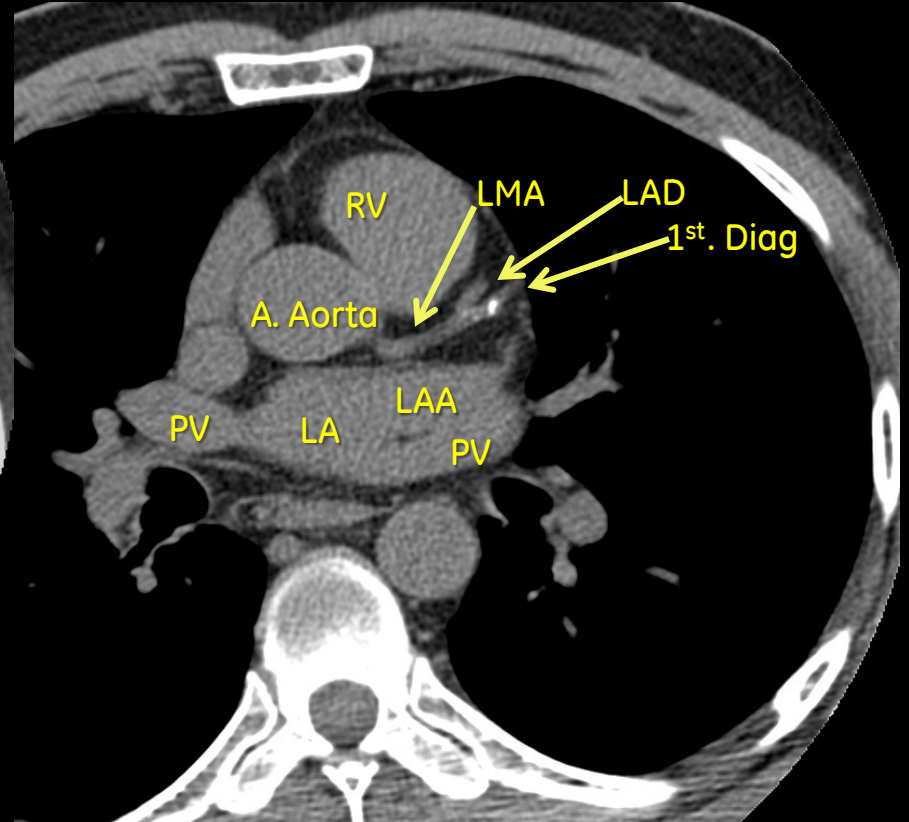
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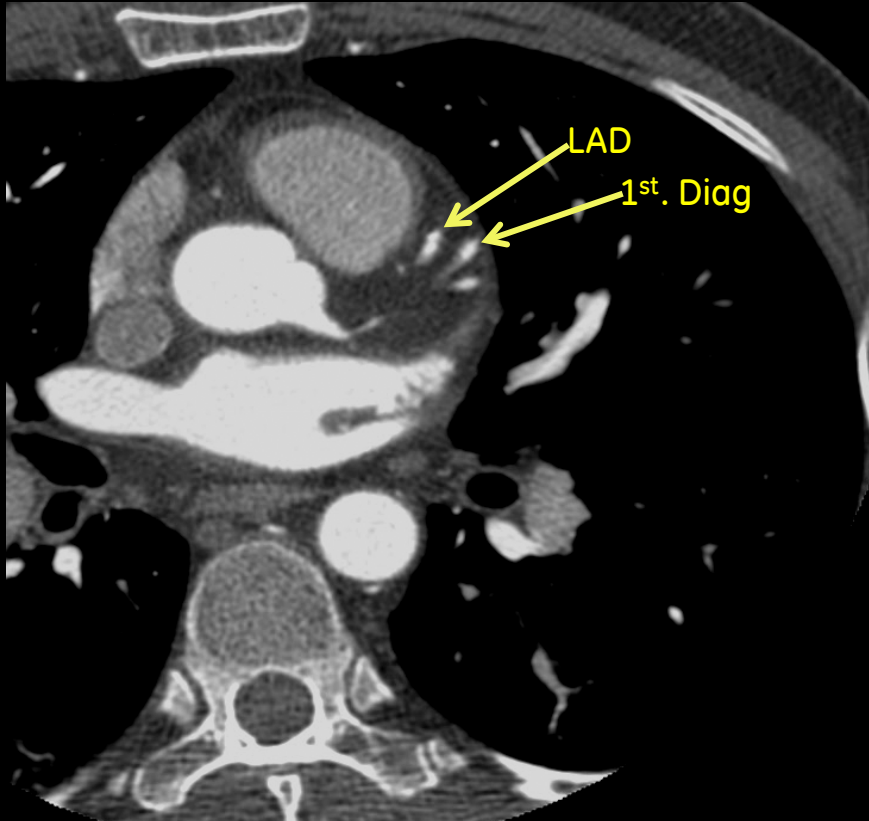
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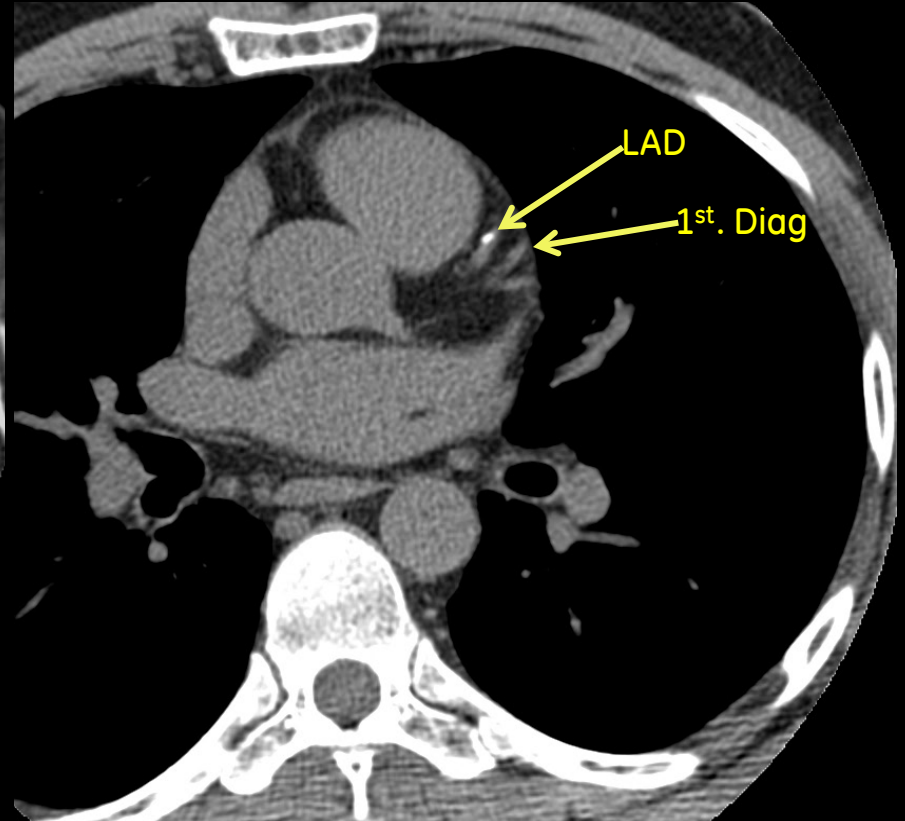
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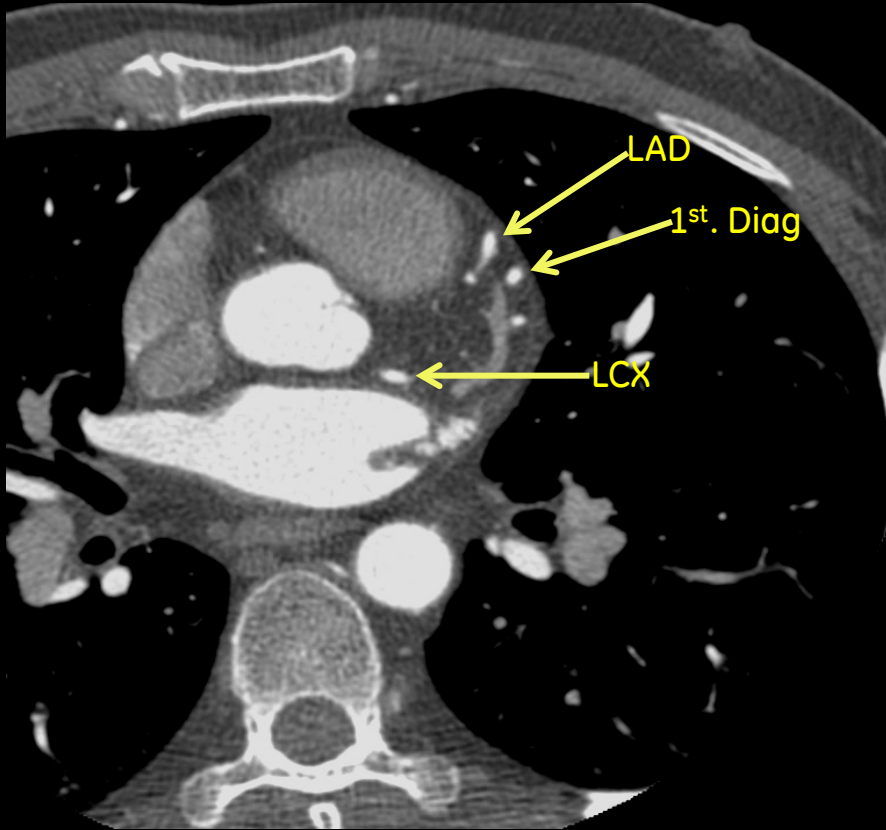
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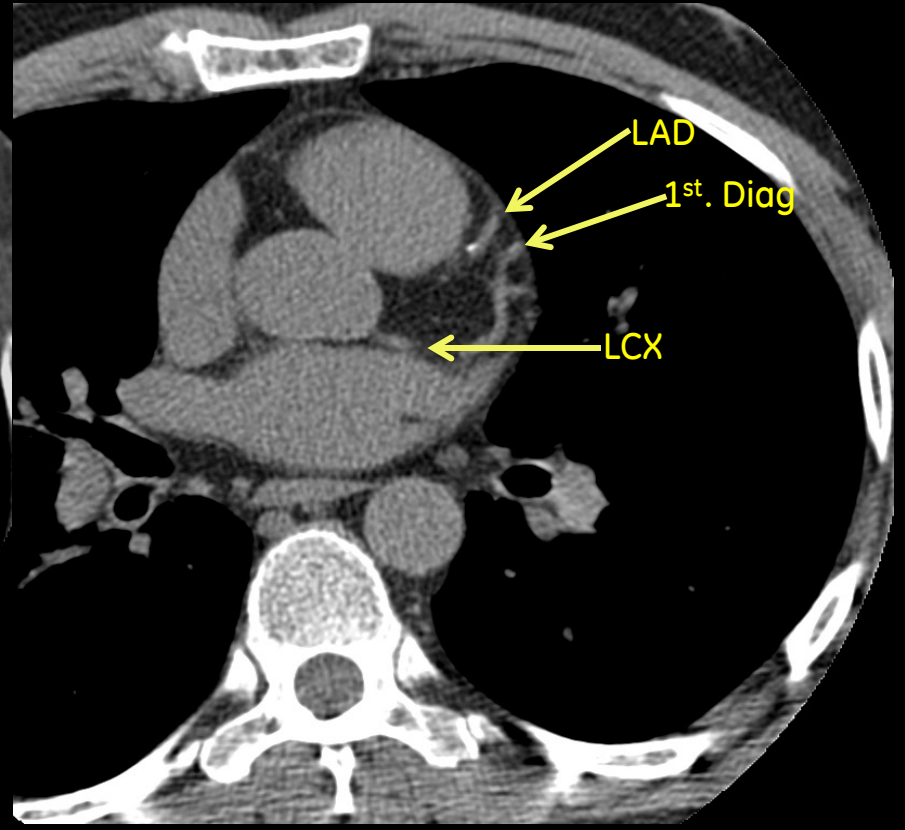
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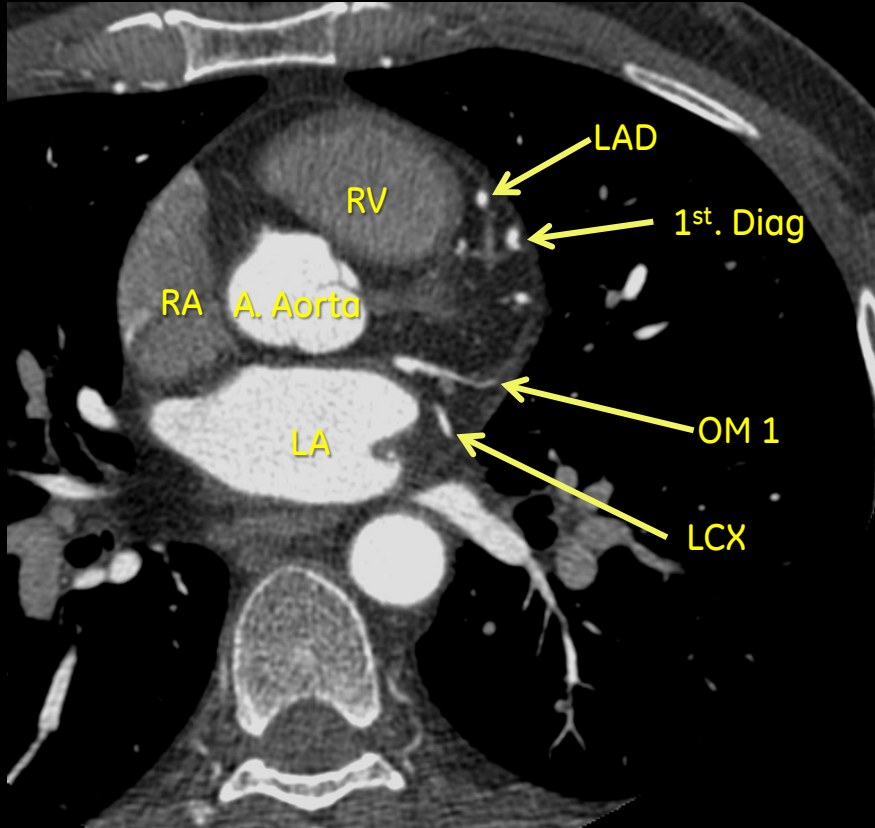
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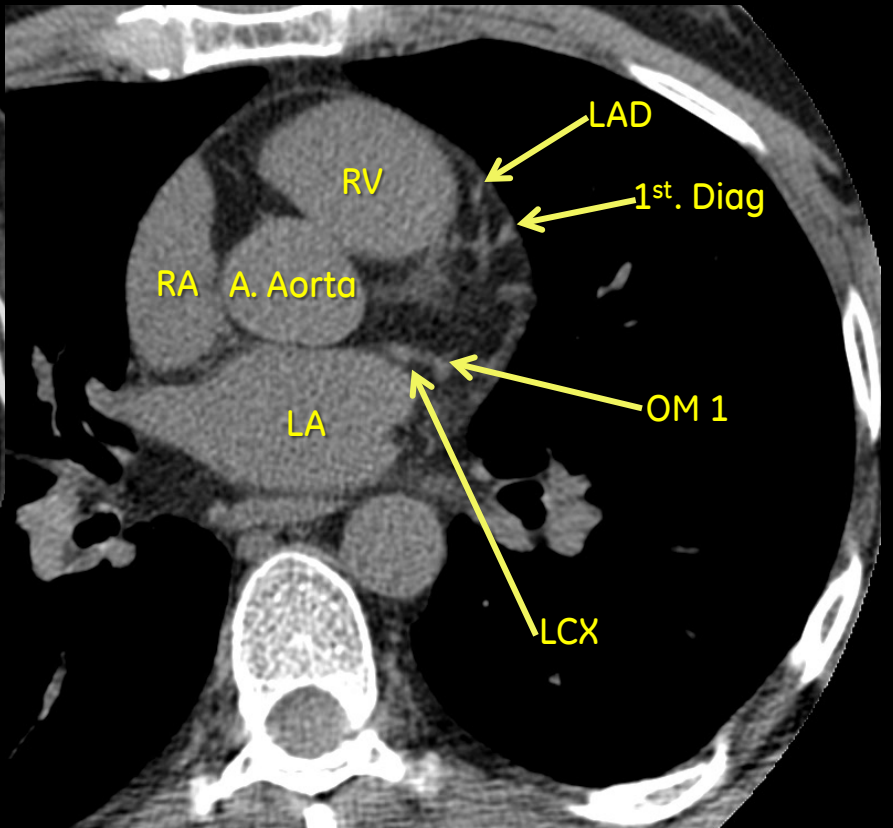
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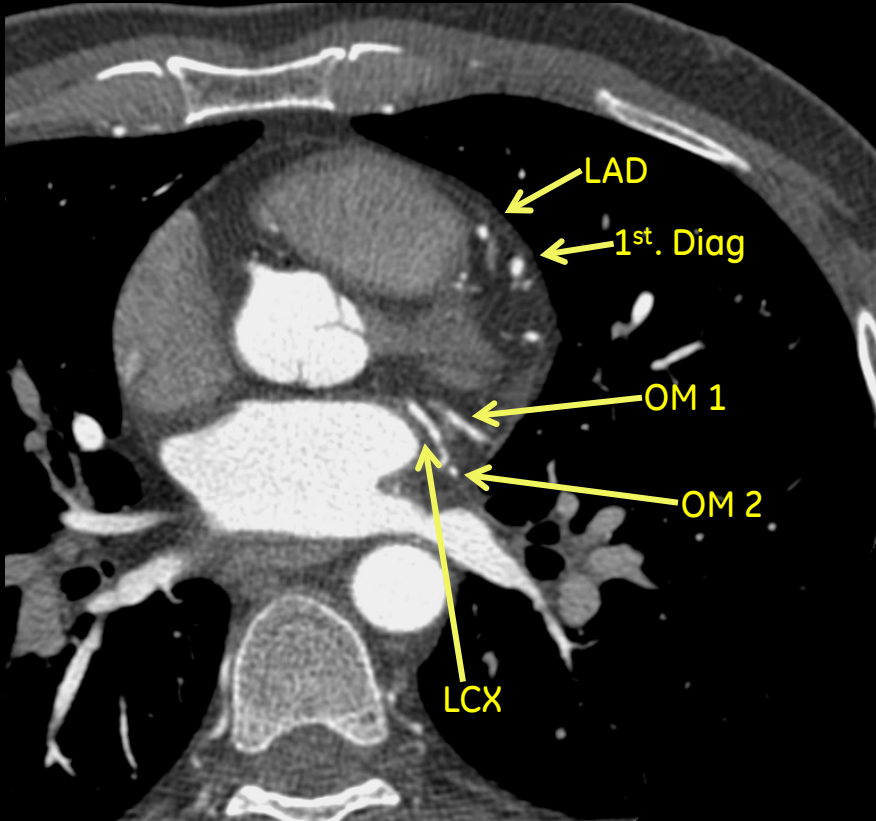
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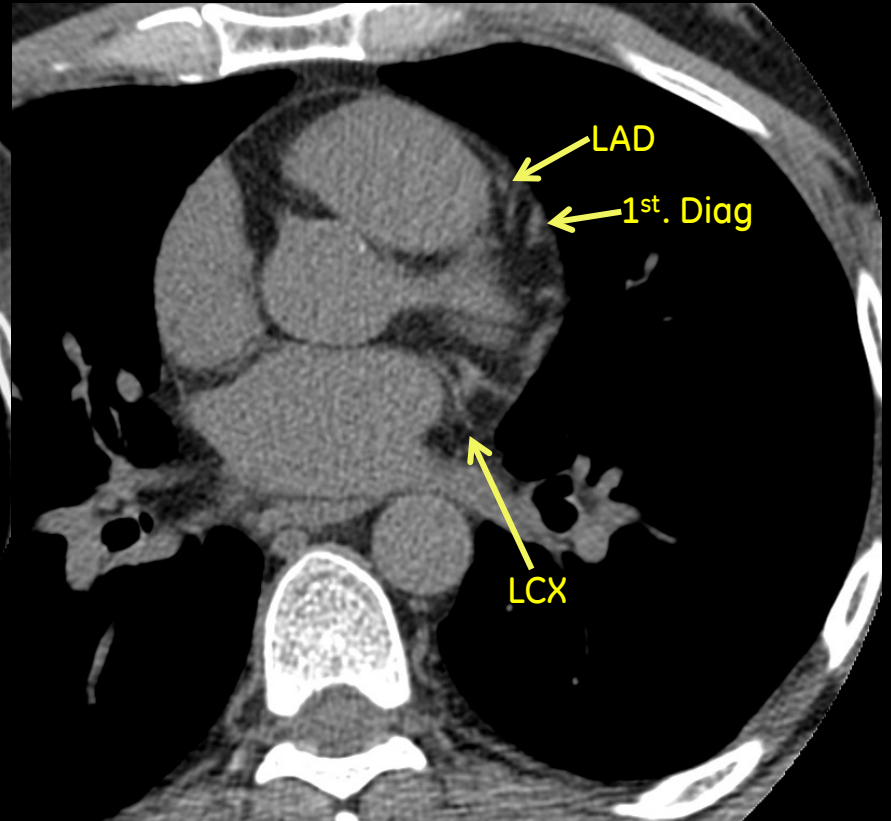
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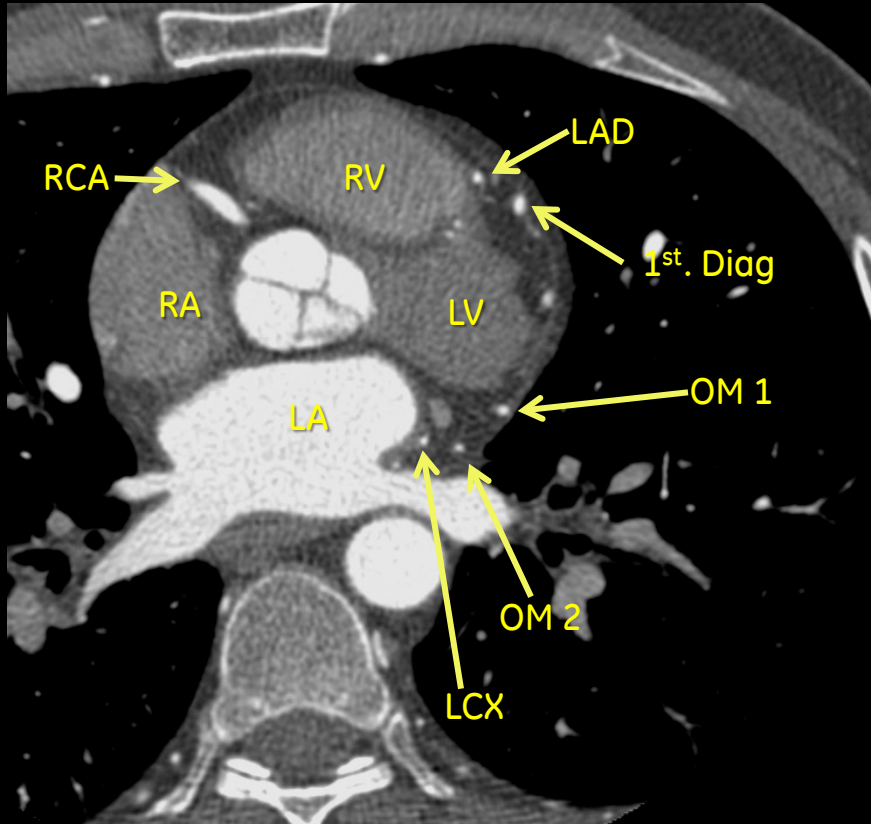
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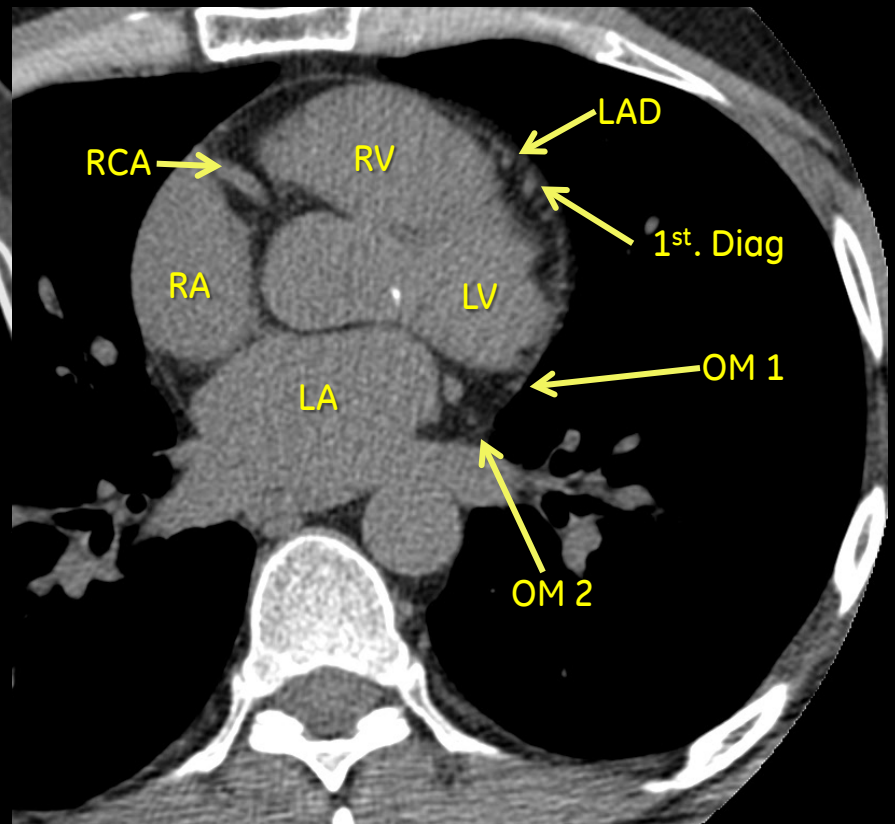
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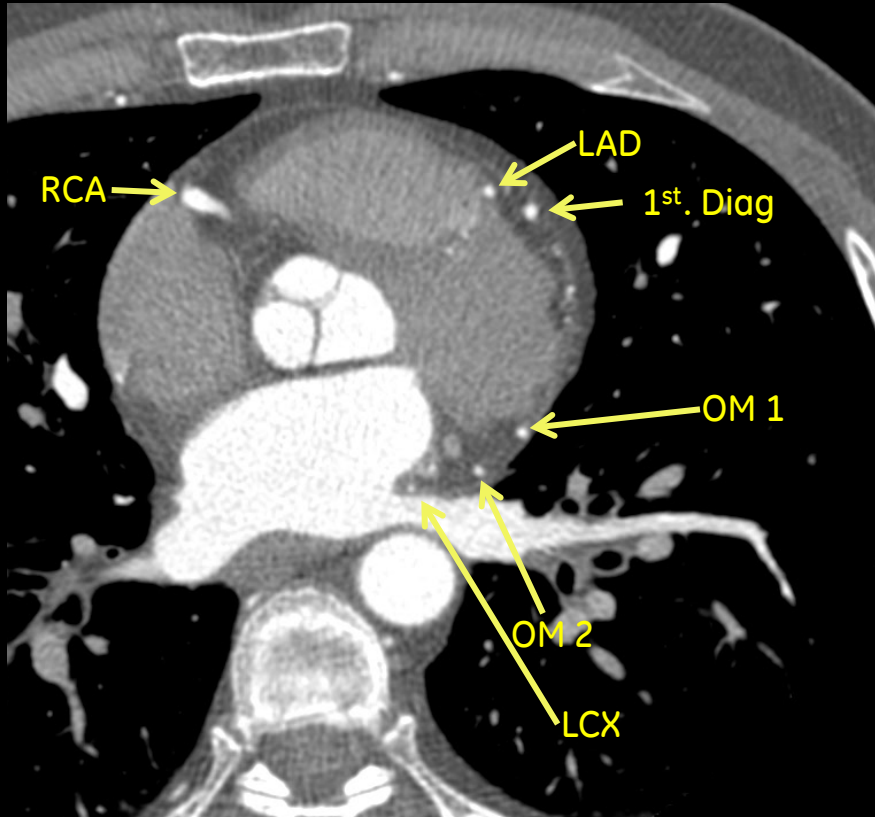
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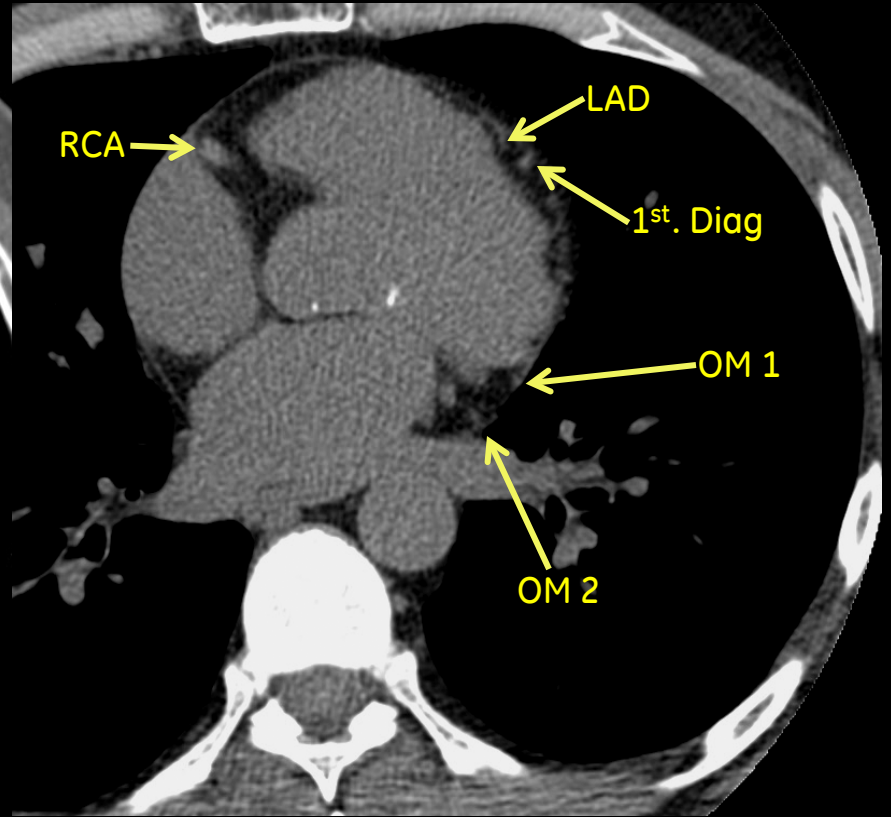
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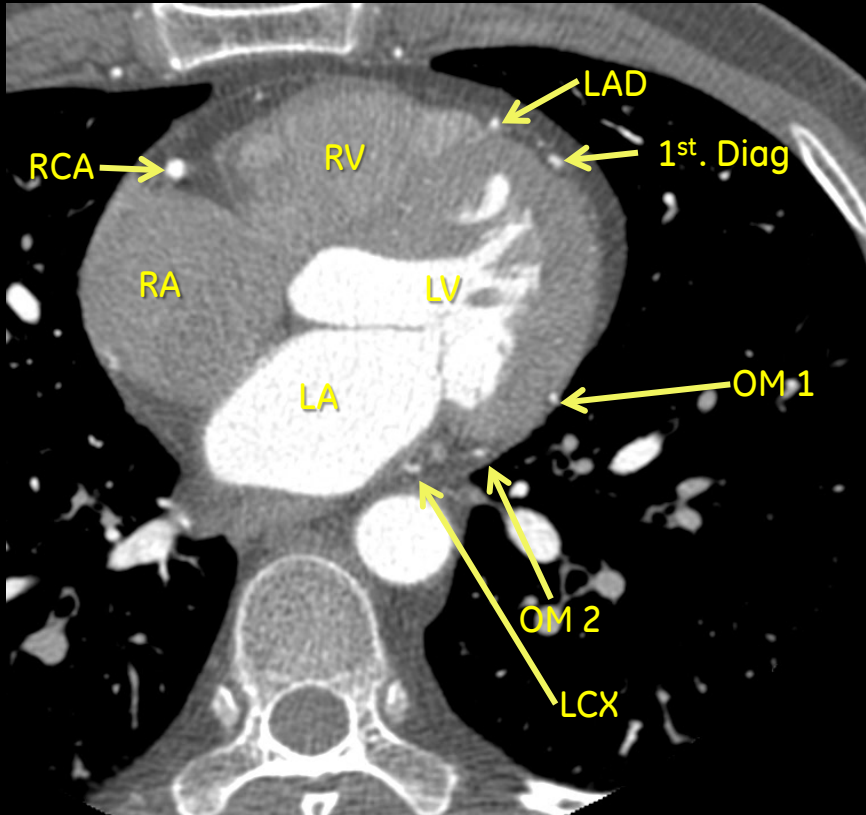
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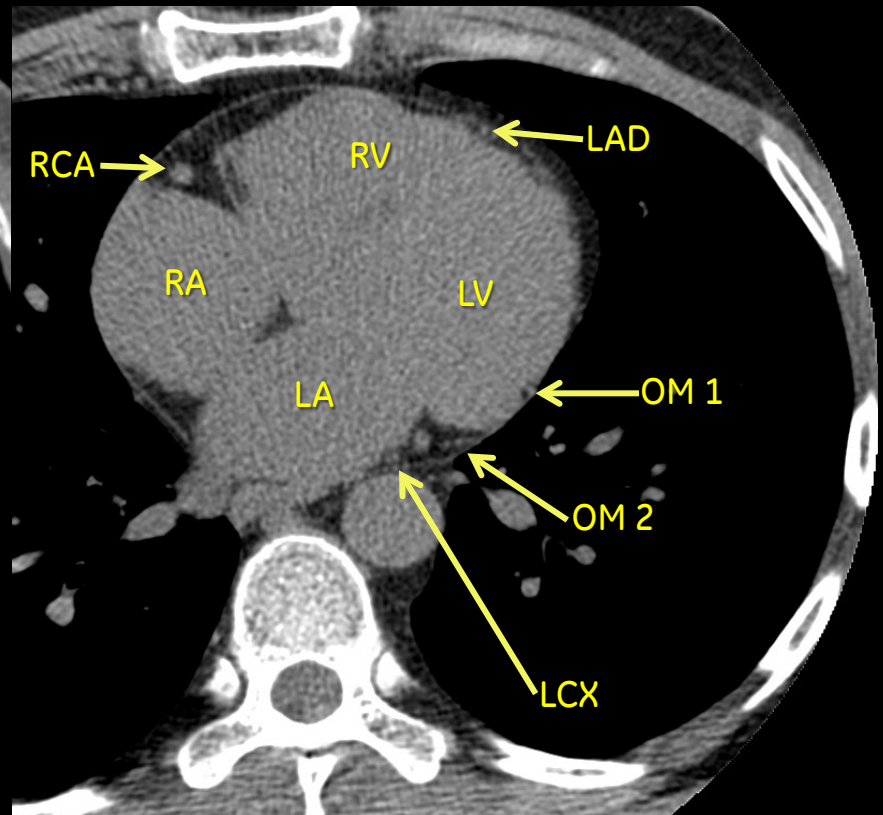
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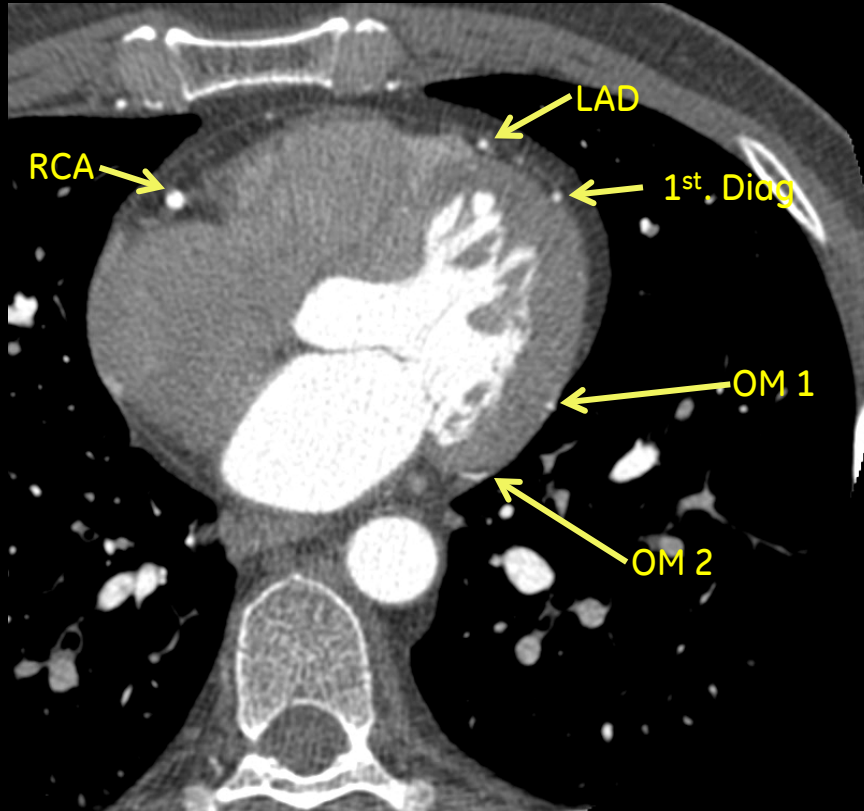
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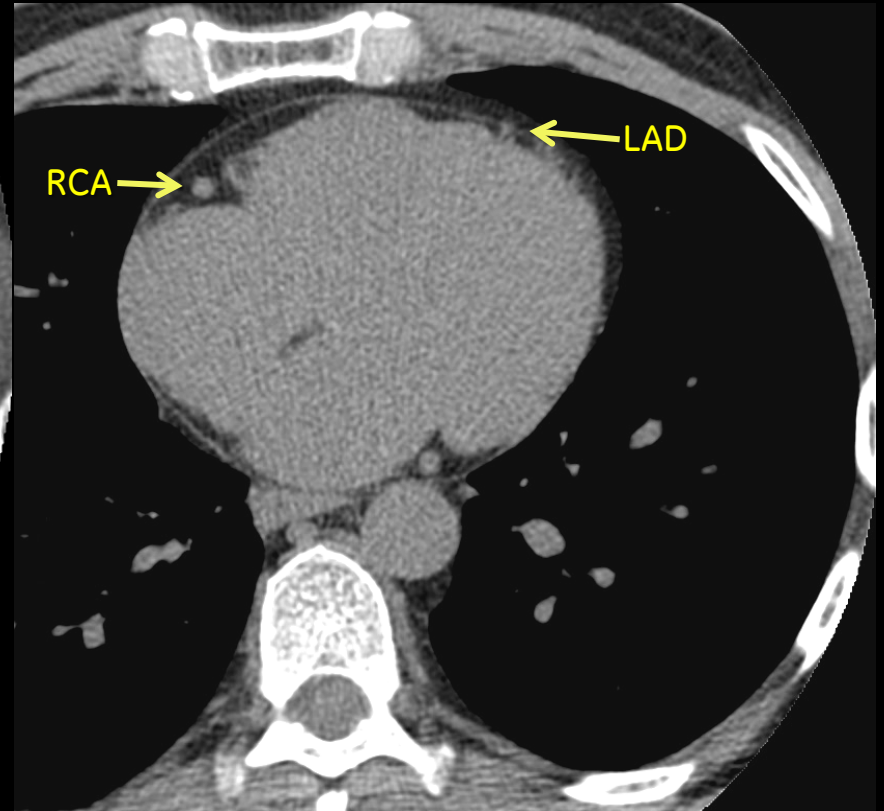
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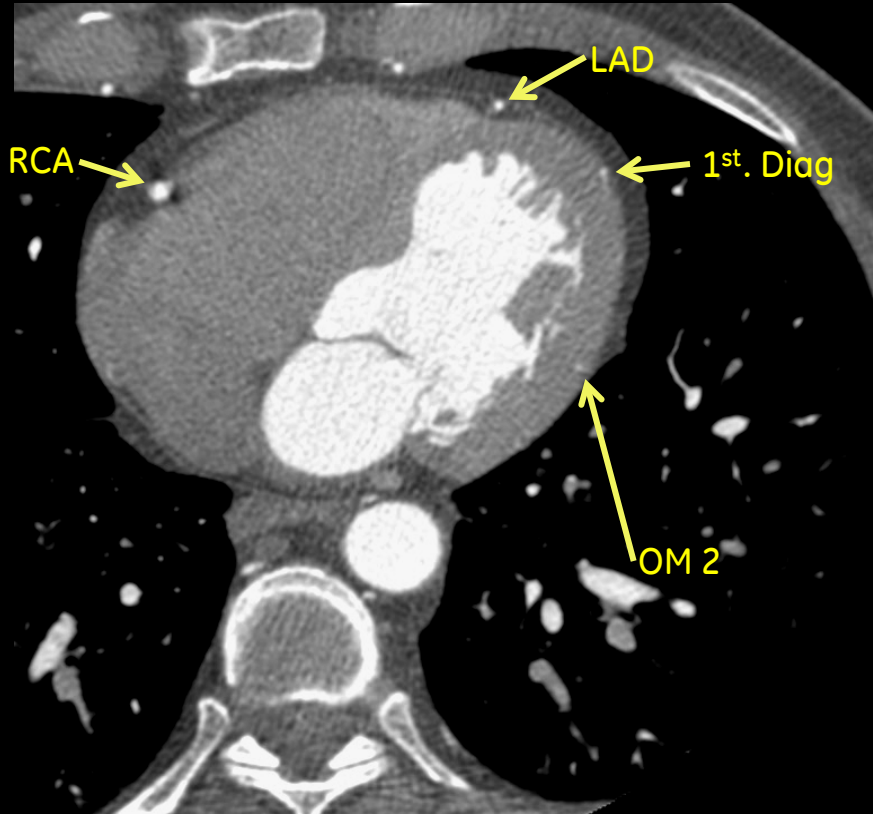
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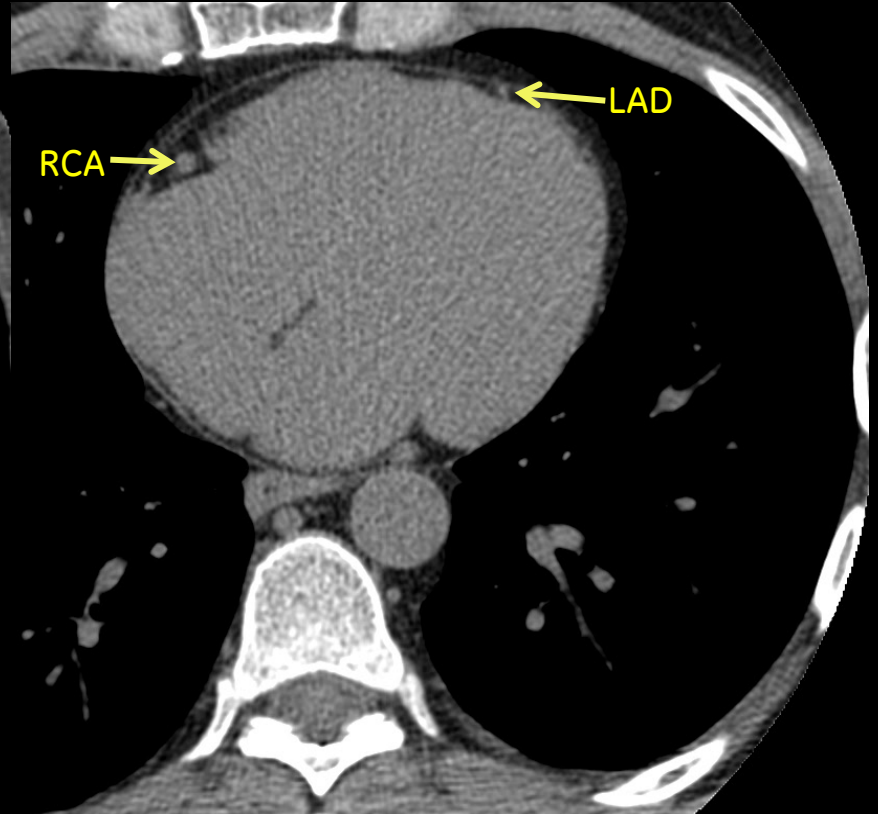
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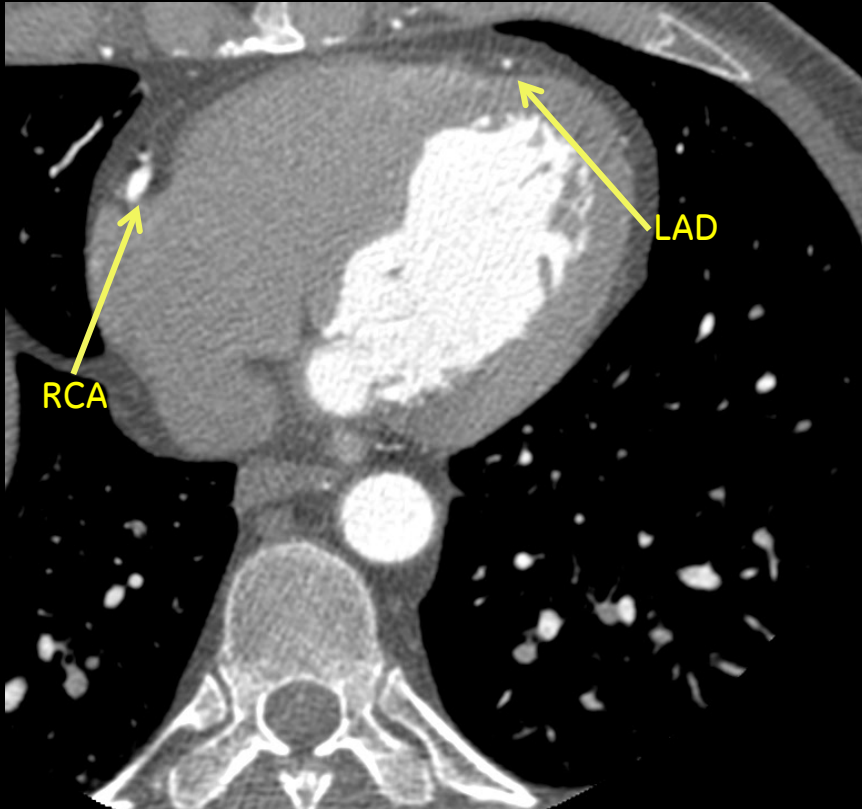
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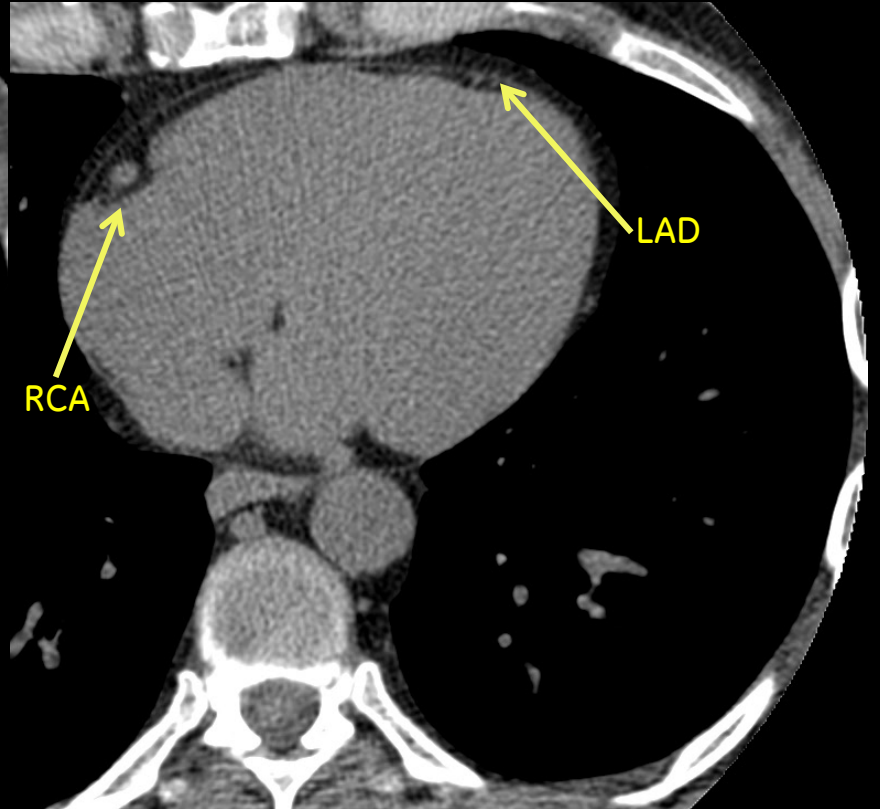
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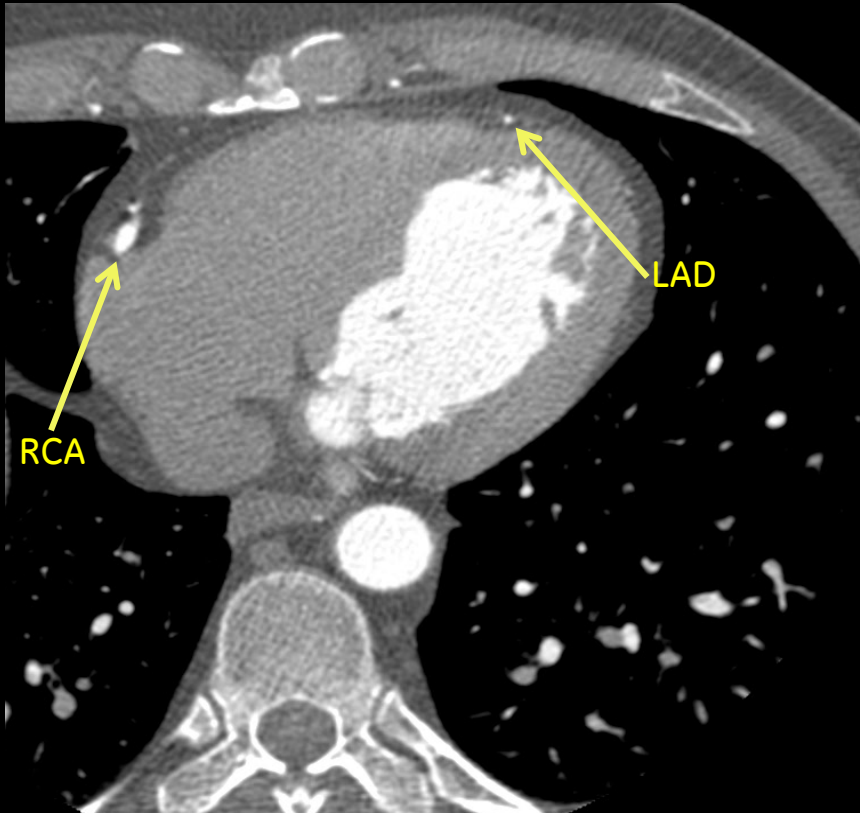
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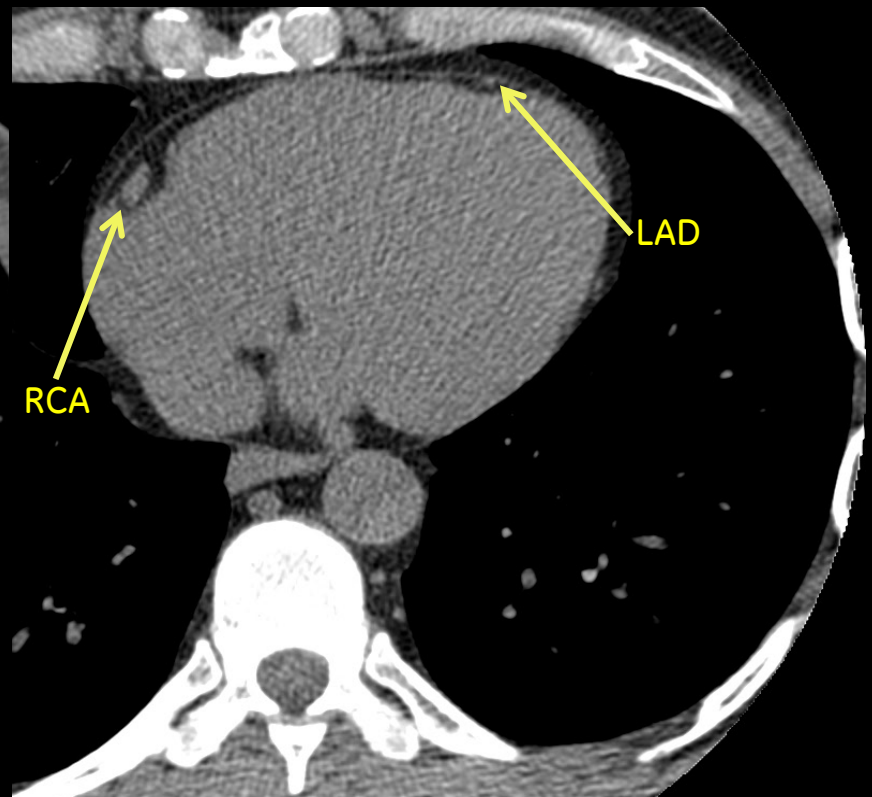
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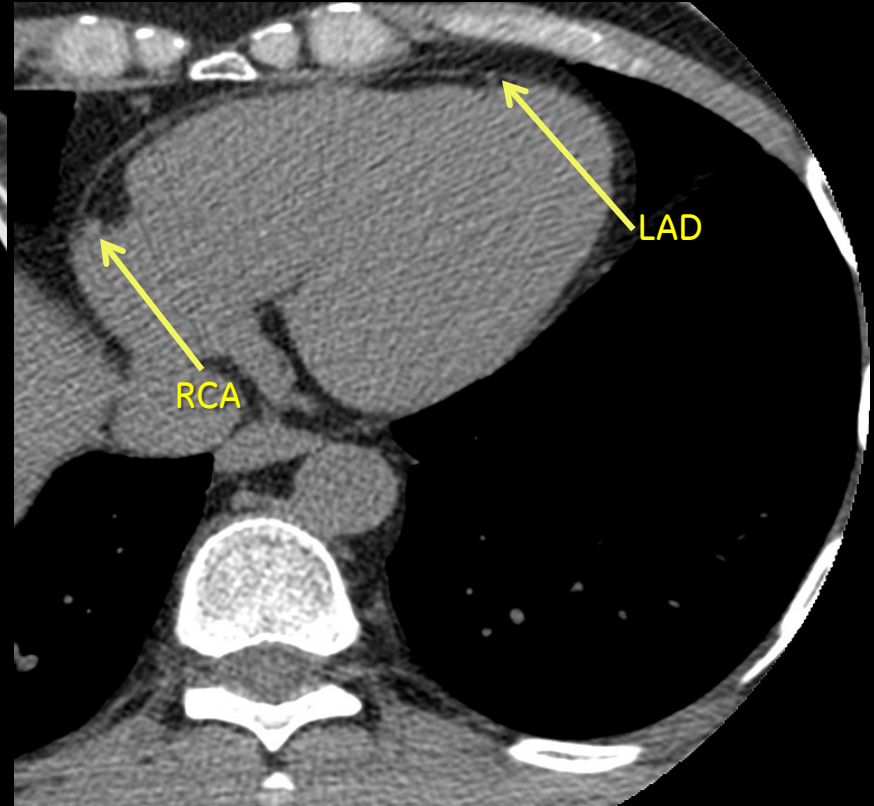
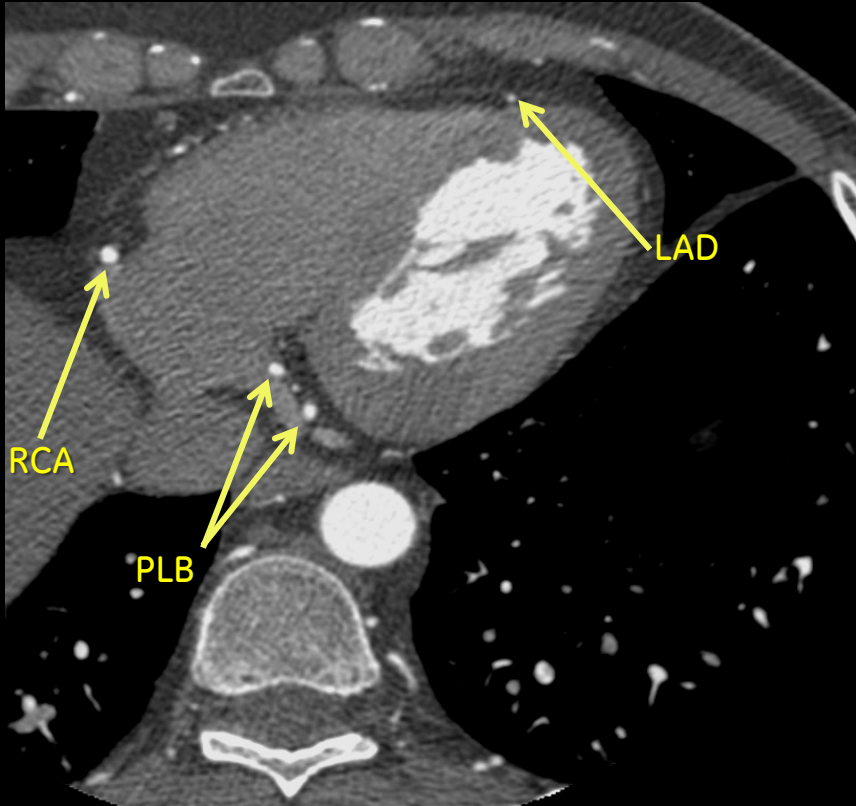


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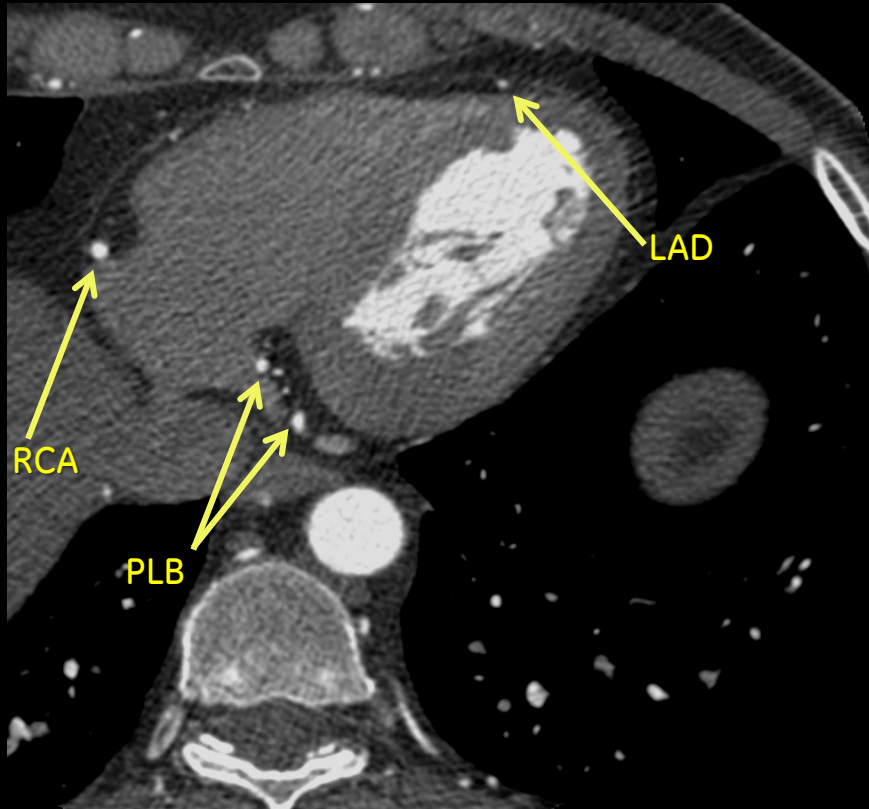


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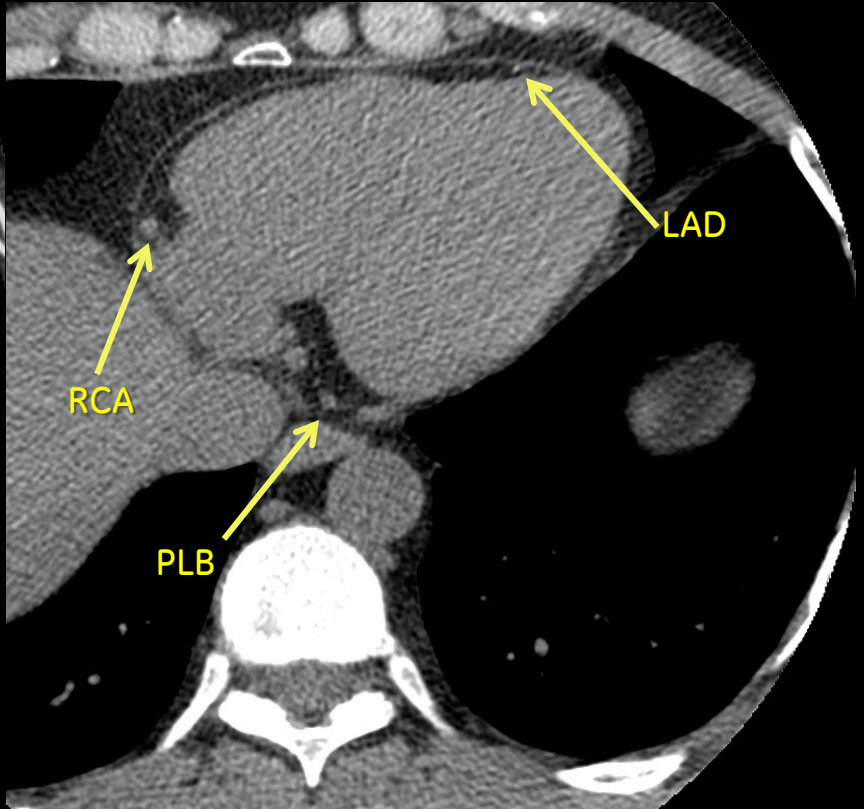
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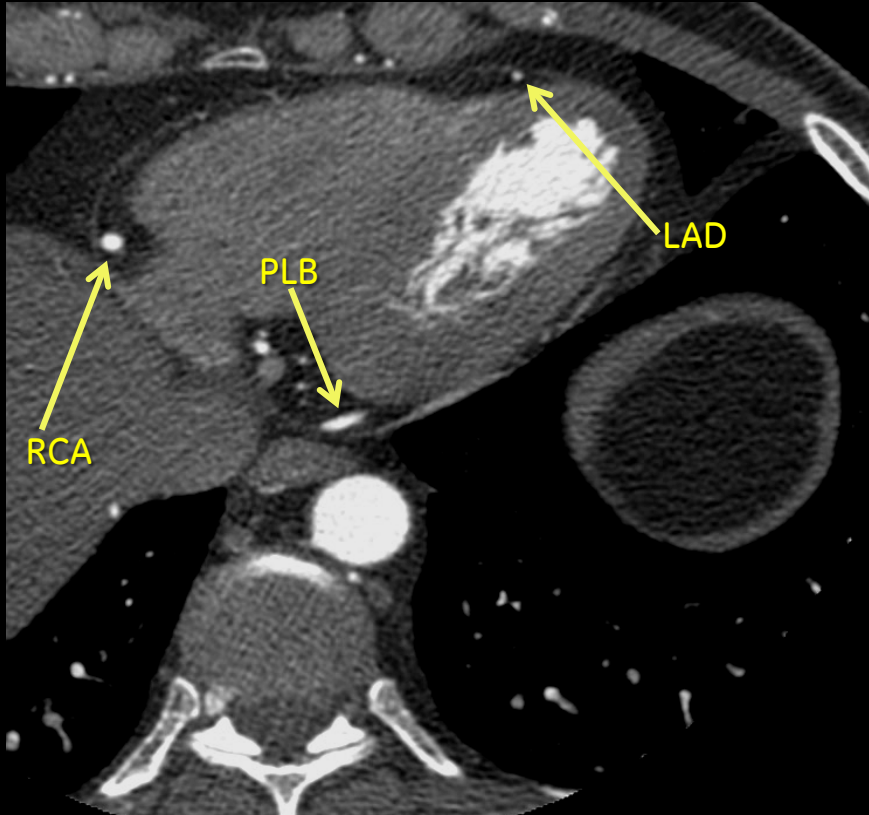
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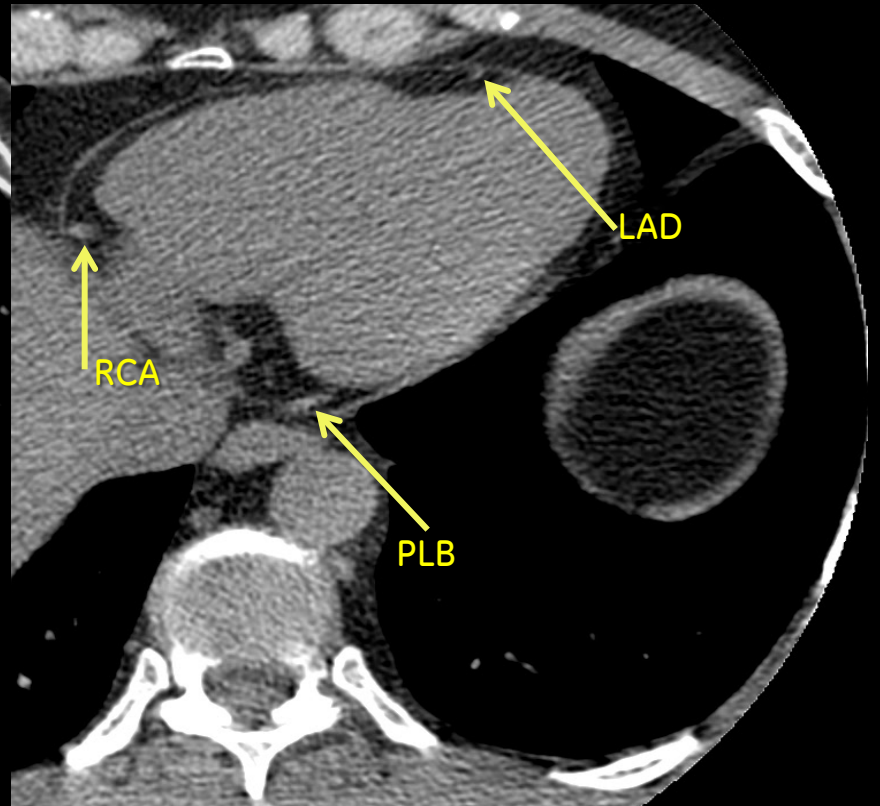
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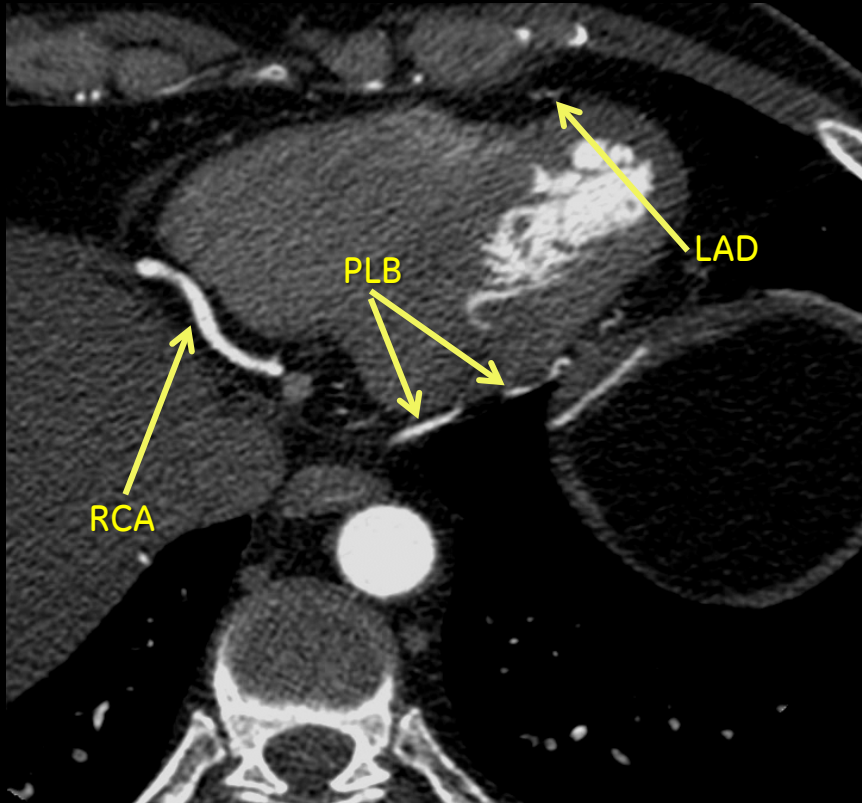
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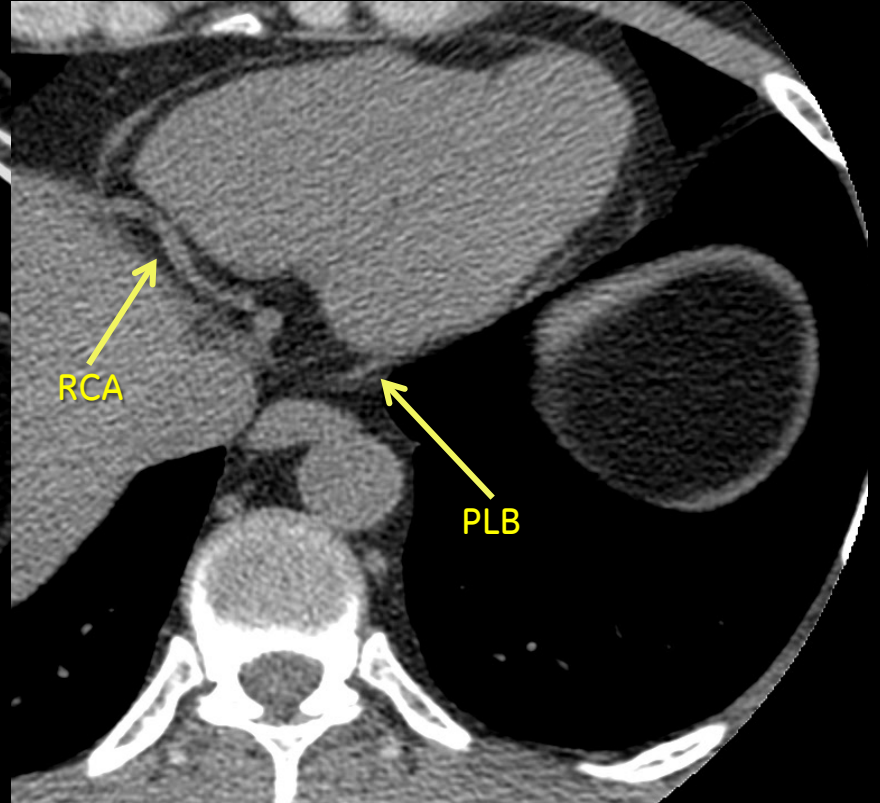
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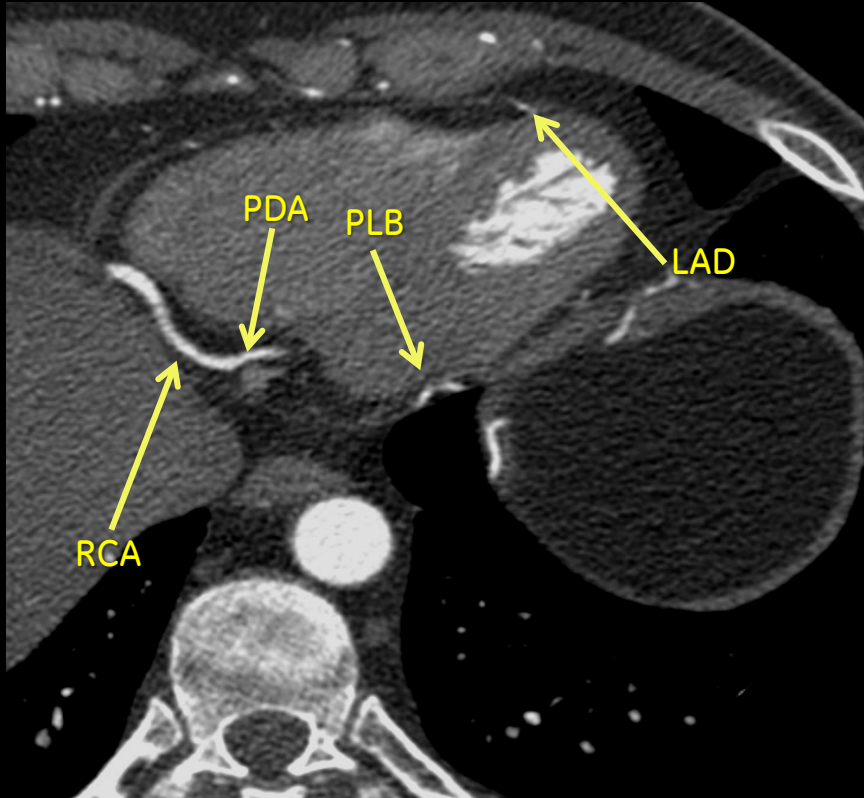
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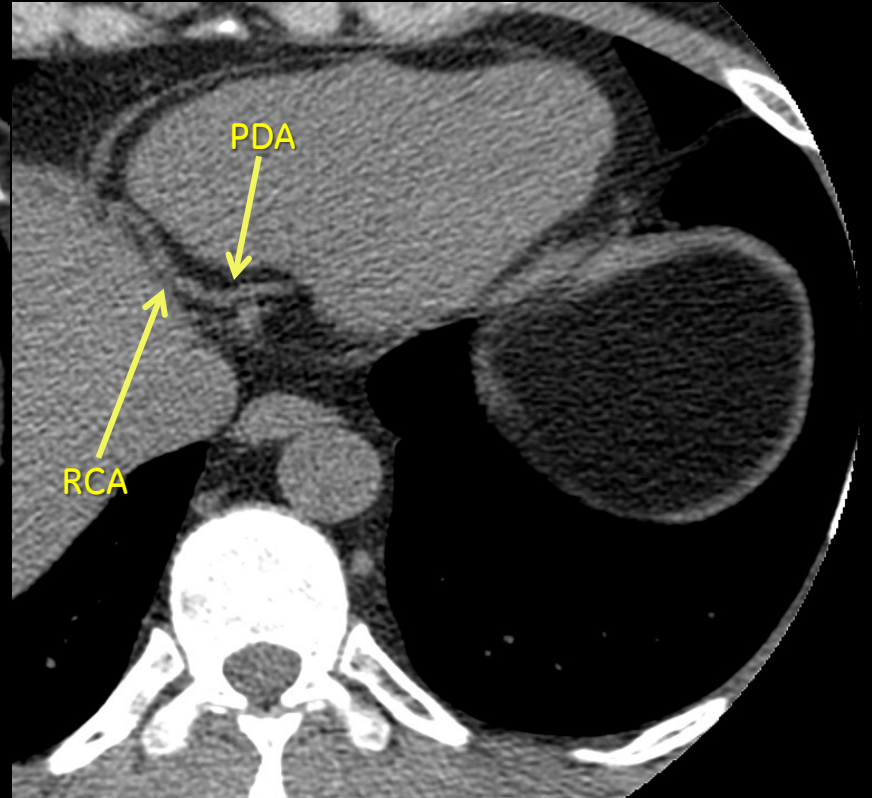
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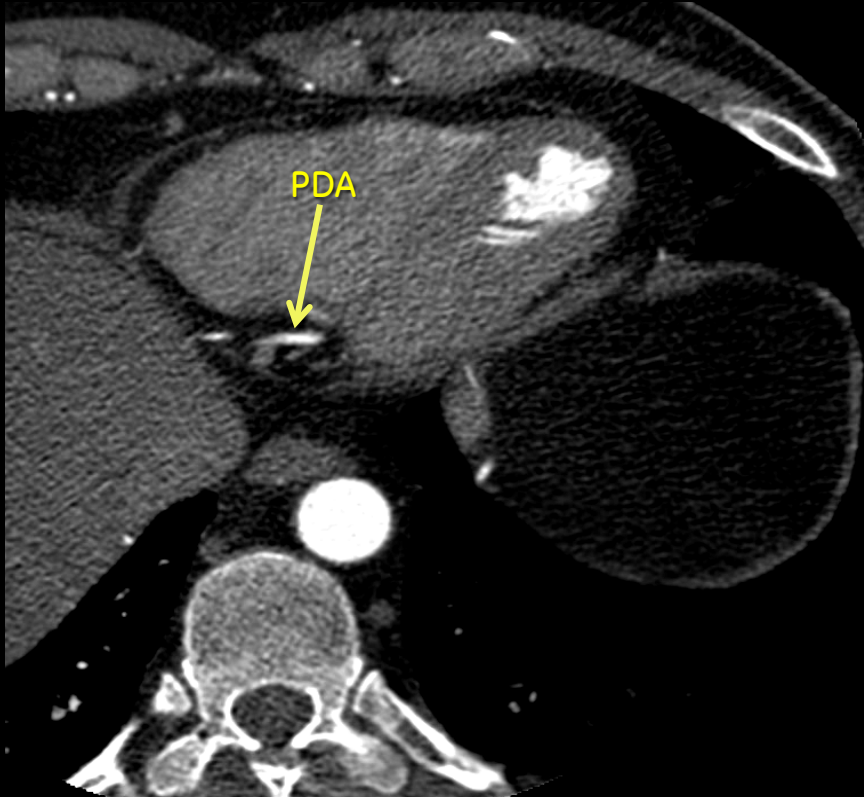
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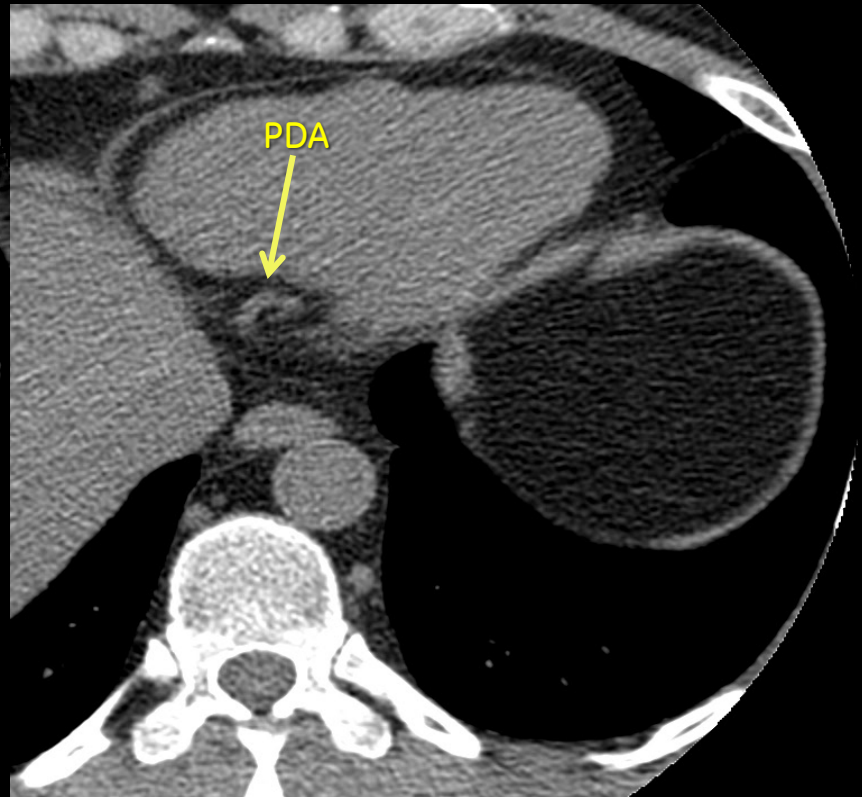
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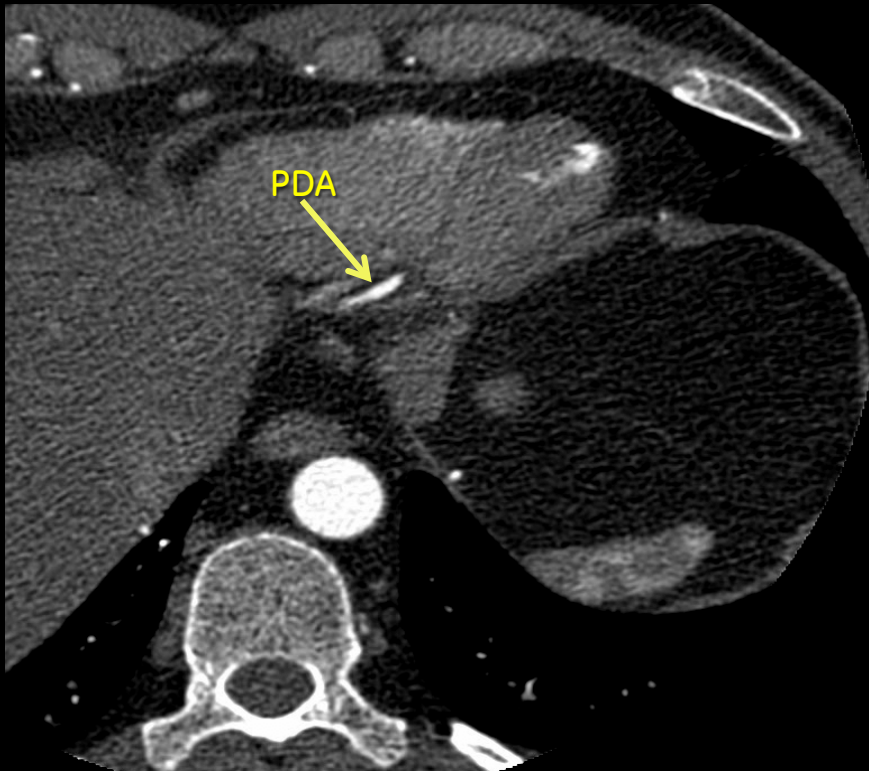
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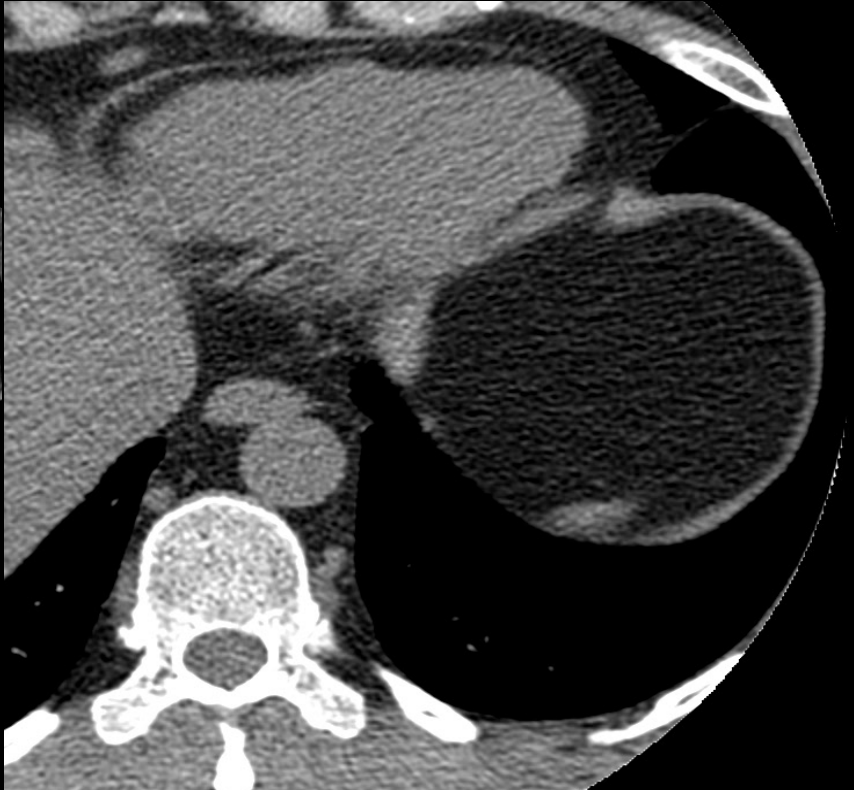
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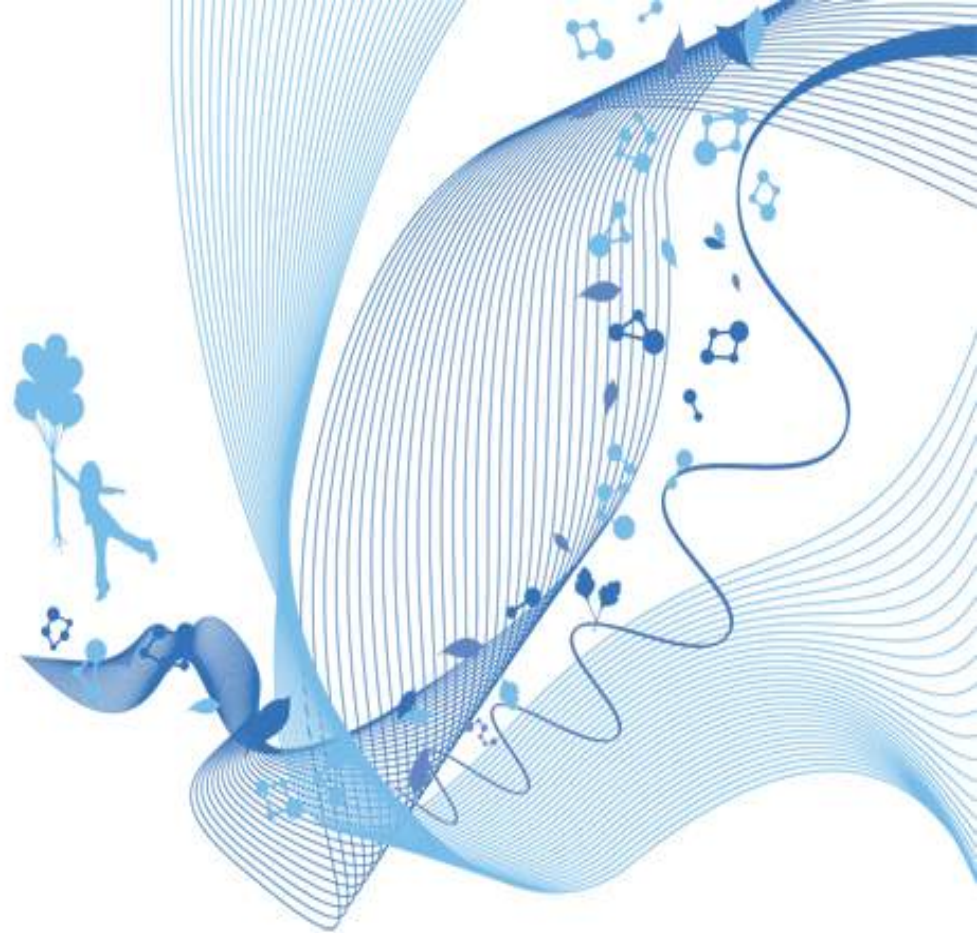


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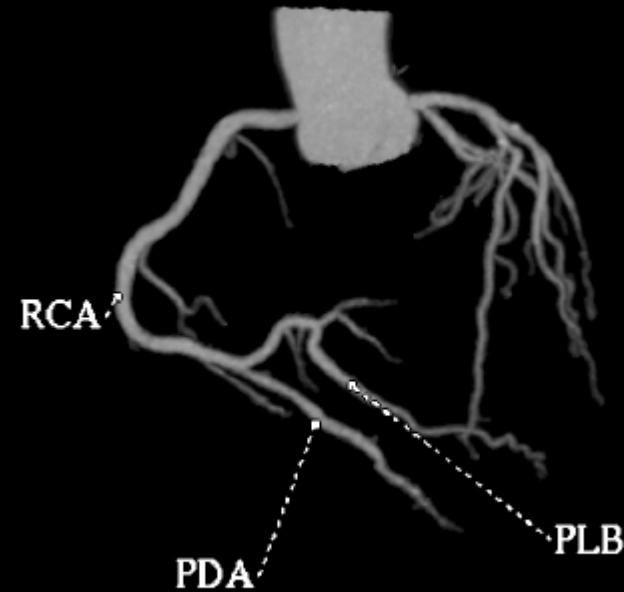
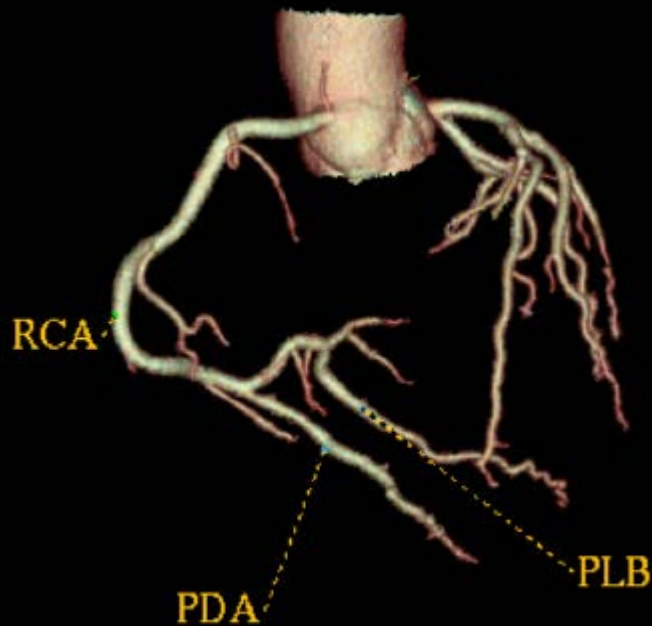
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Right Coronary Artery and Branches

Volume Rendered

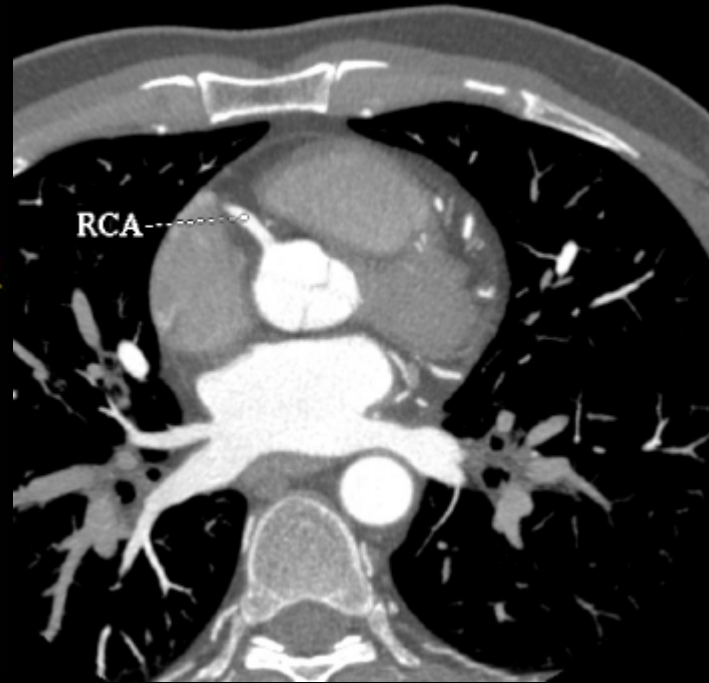
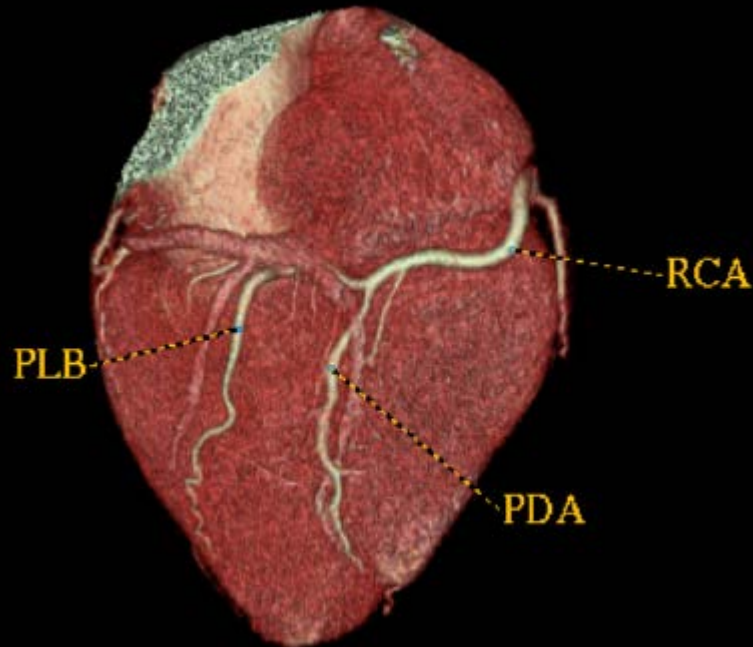
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Right Coronary Artery and Branches

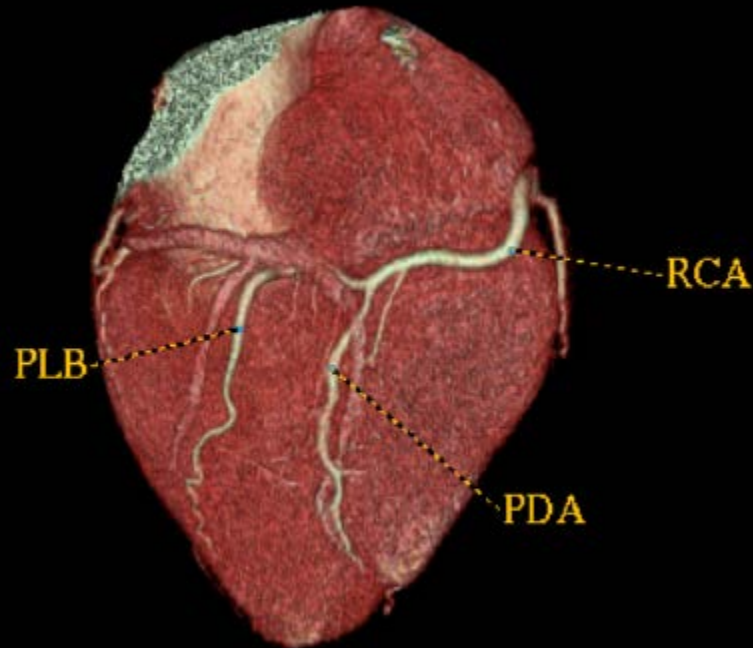
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Right Coronary Artery and Branches

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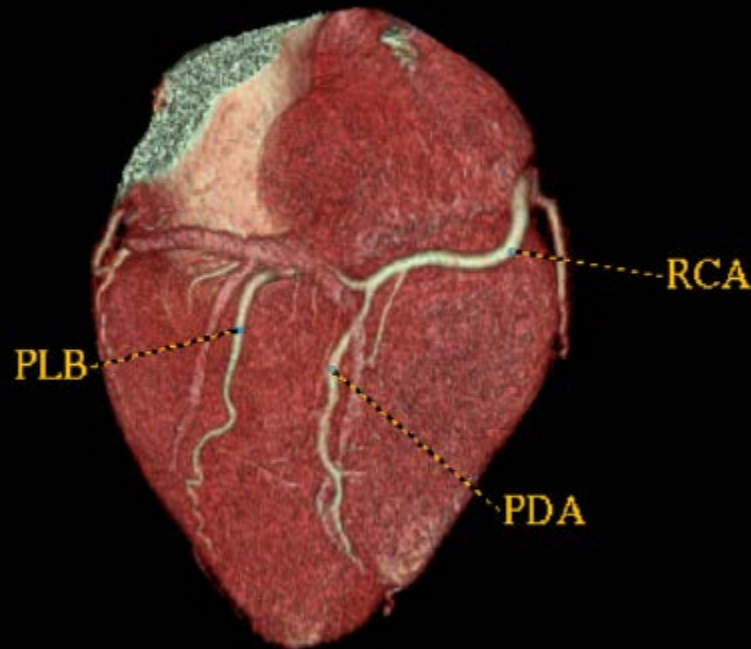


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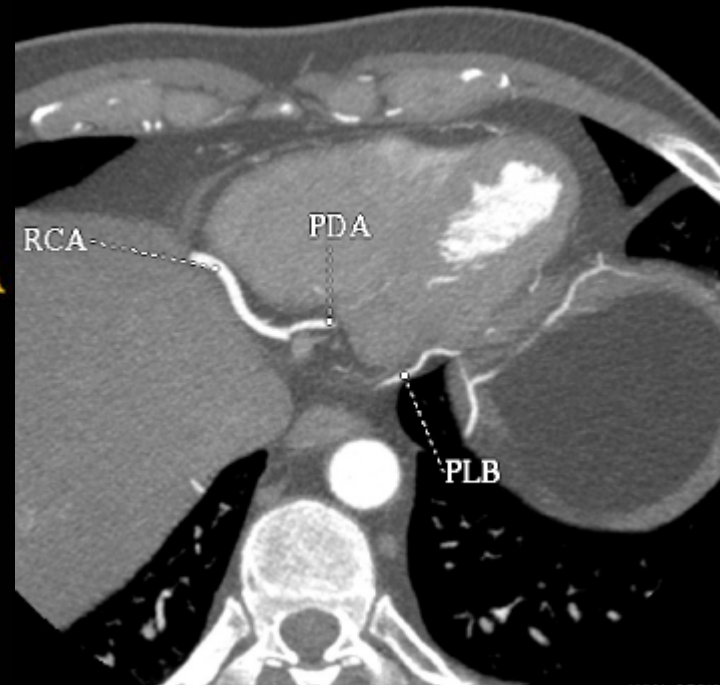


Right Coronary Artery and Branches

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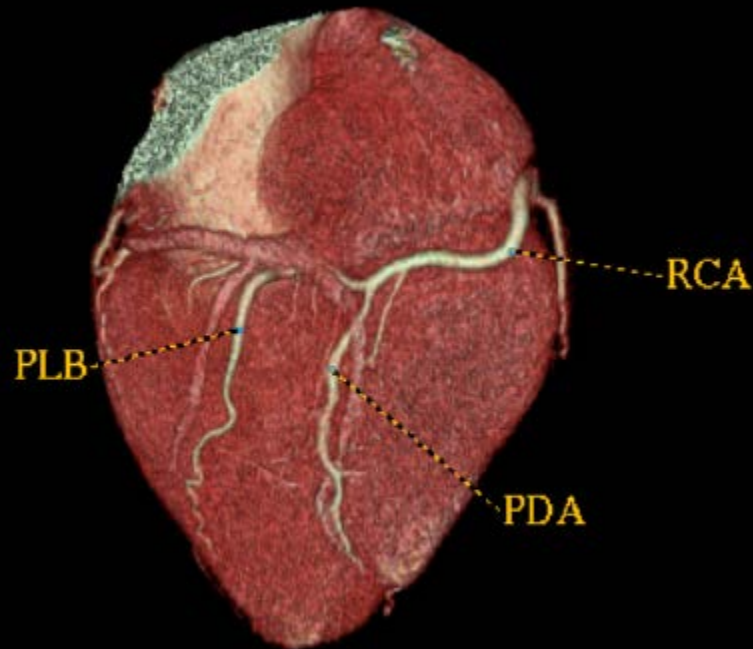


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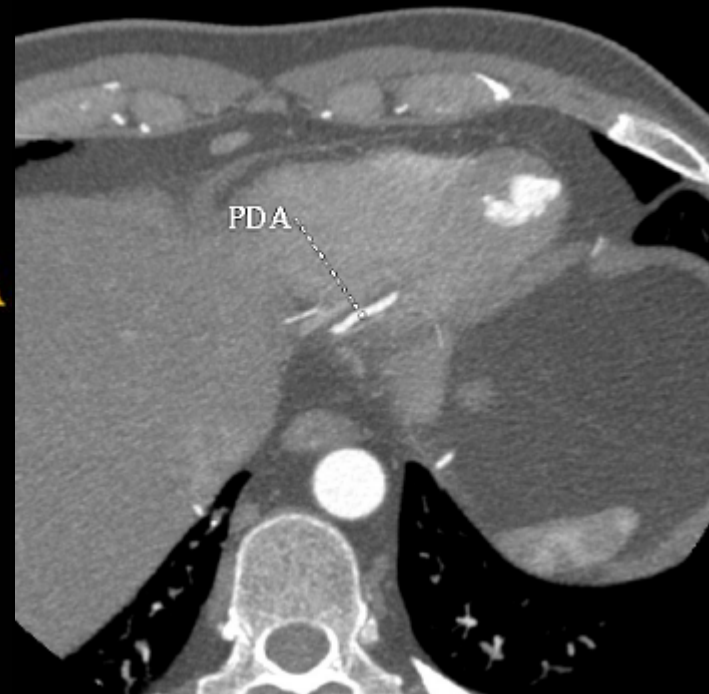


Right Coronary Artery and Branches

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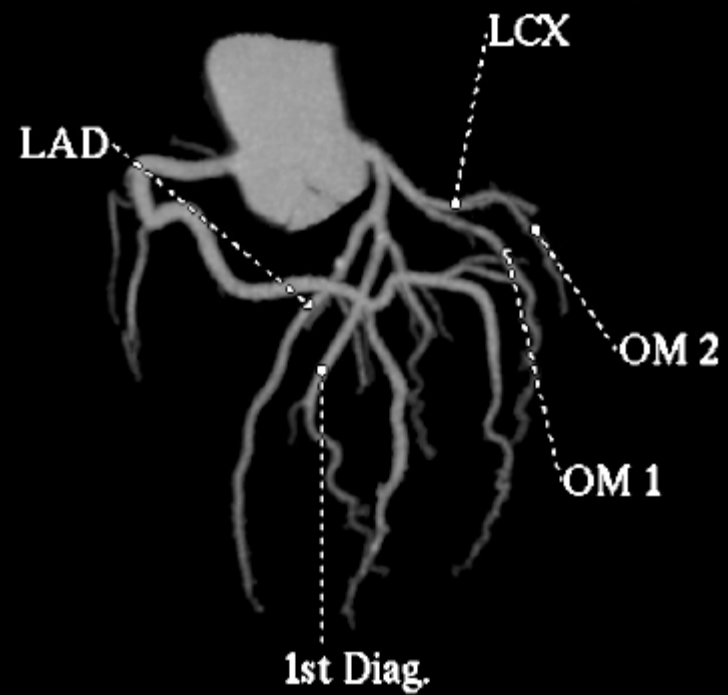
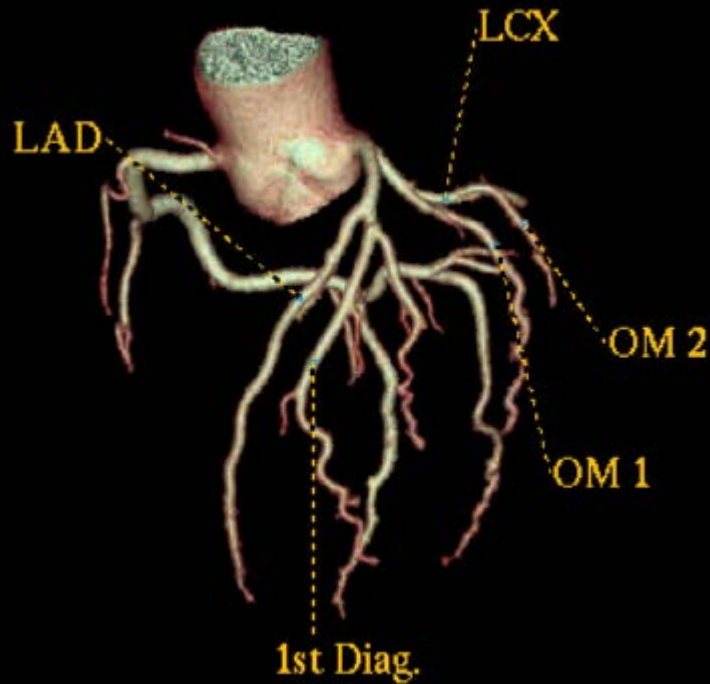
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Left Coronary Arteries

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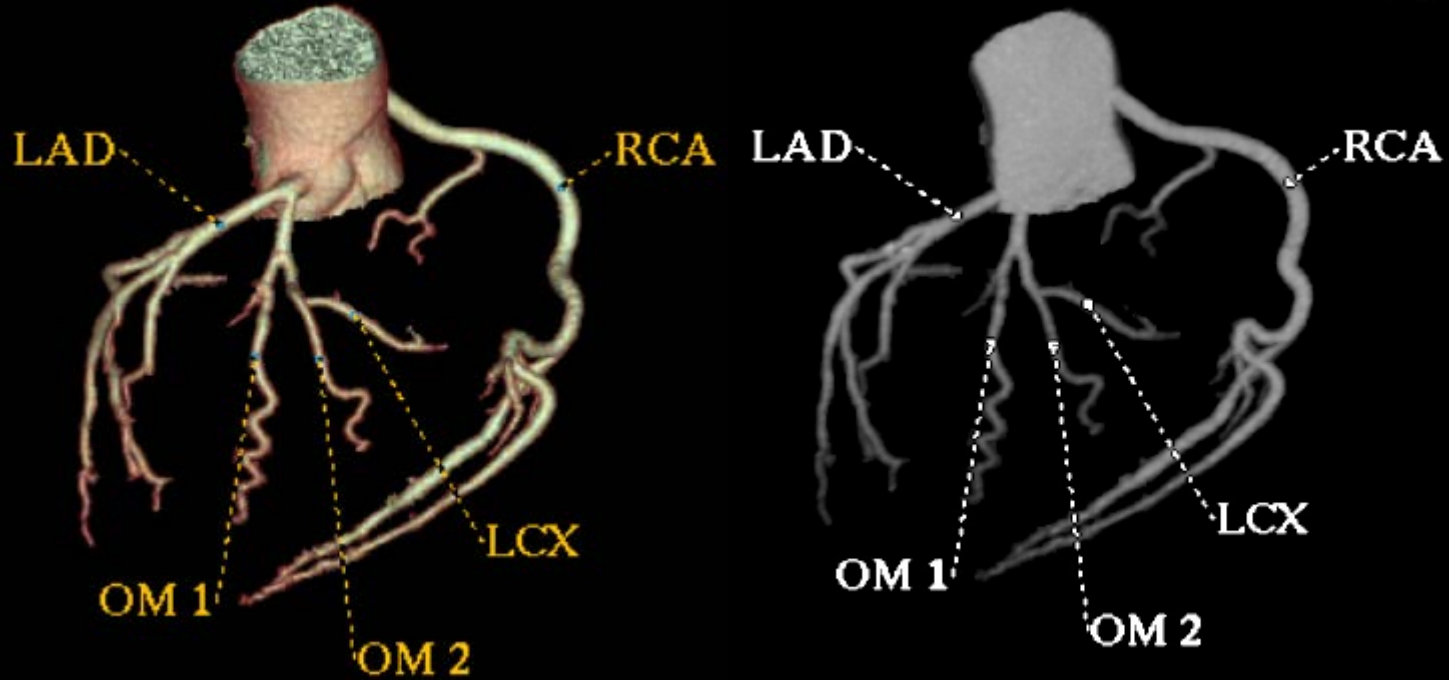
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Coronary Arteries

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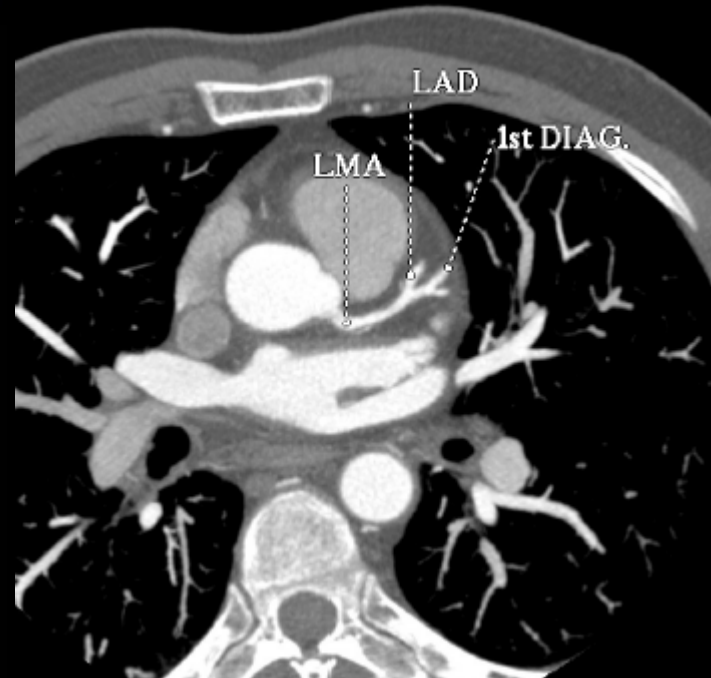
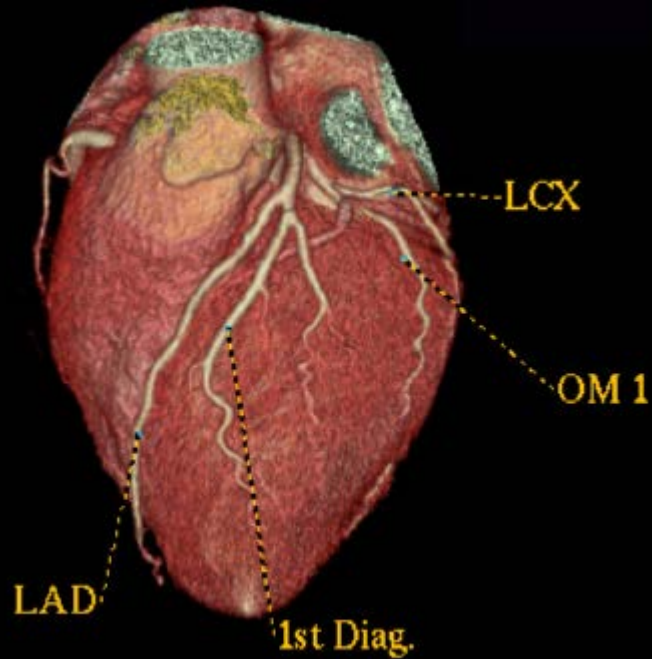
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Coronary Arteries

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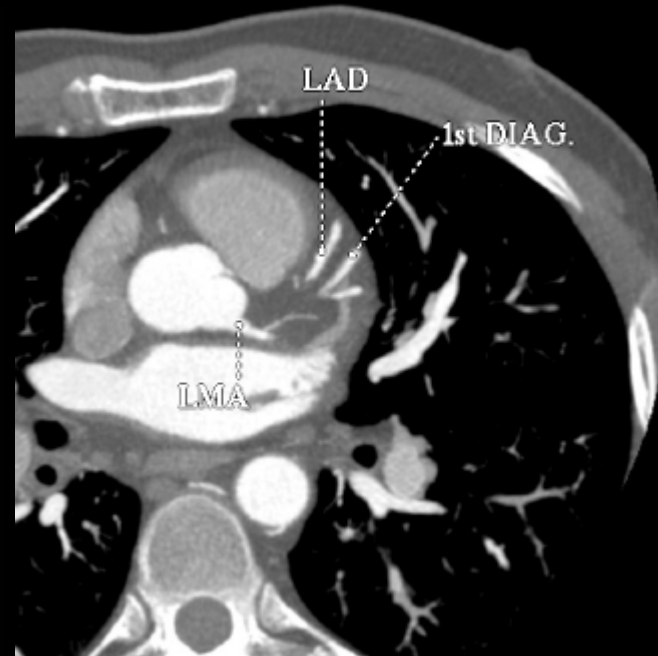
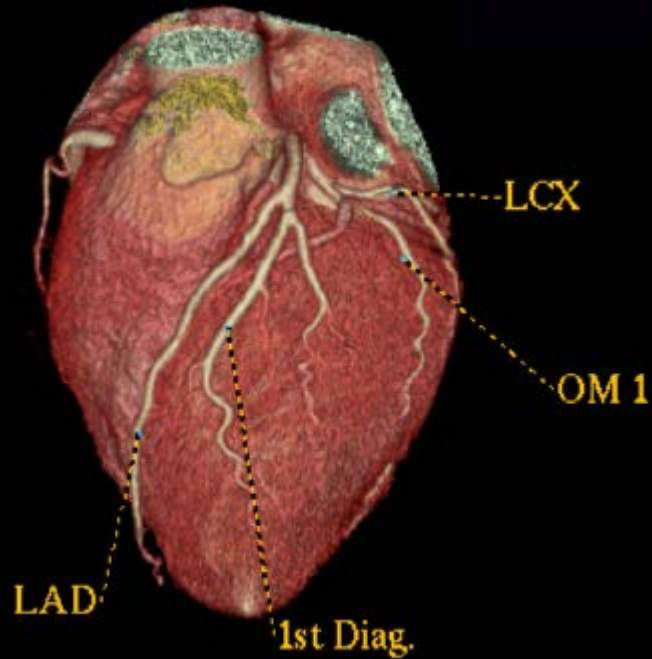
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Coronary Arteries

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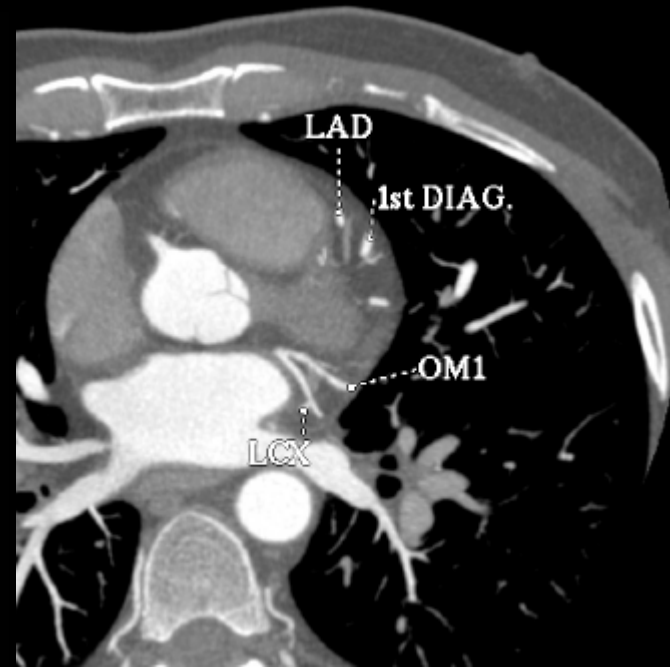
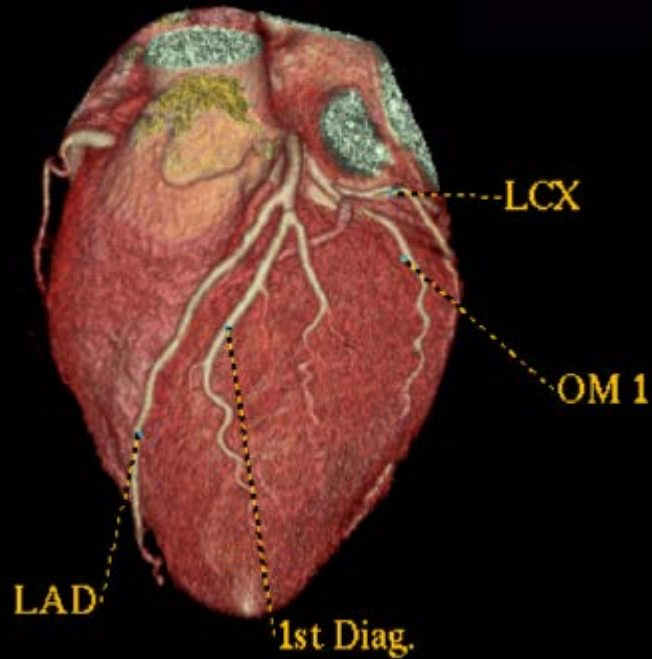
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Coronary Arteries

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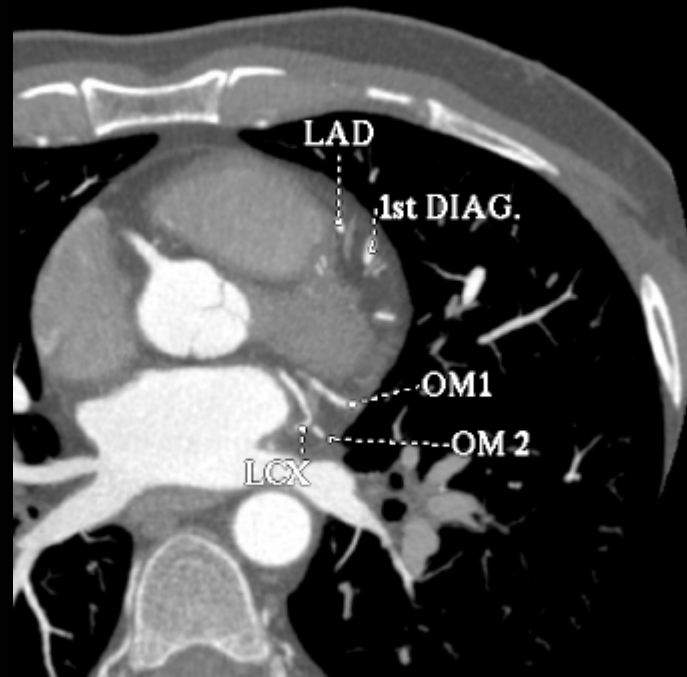
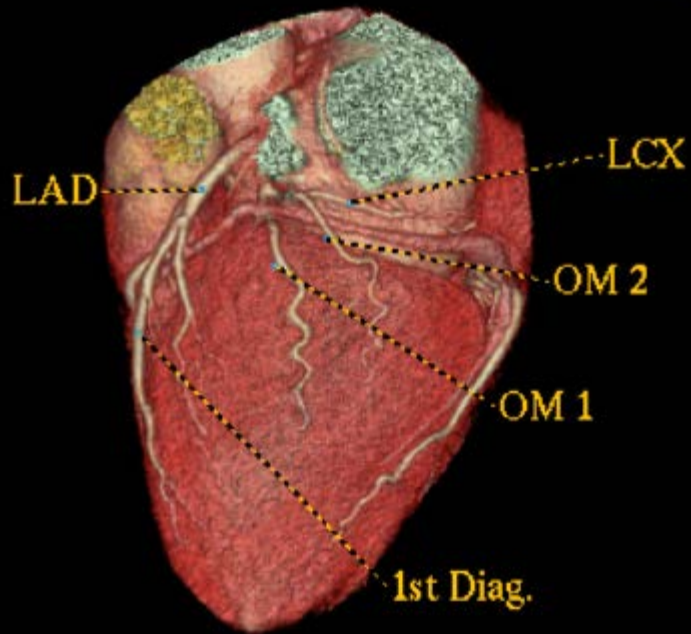
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Coronary Arteries

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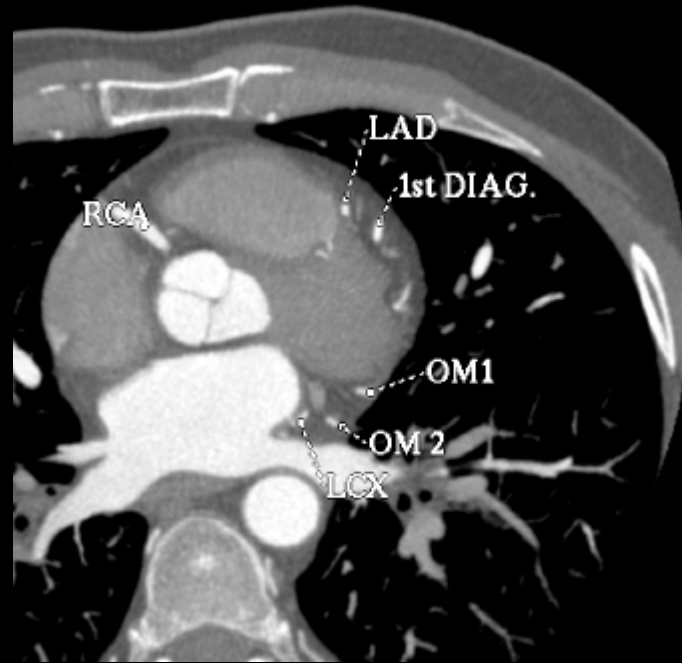
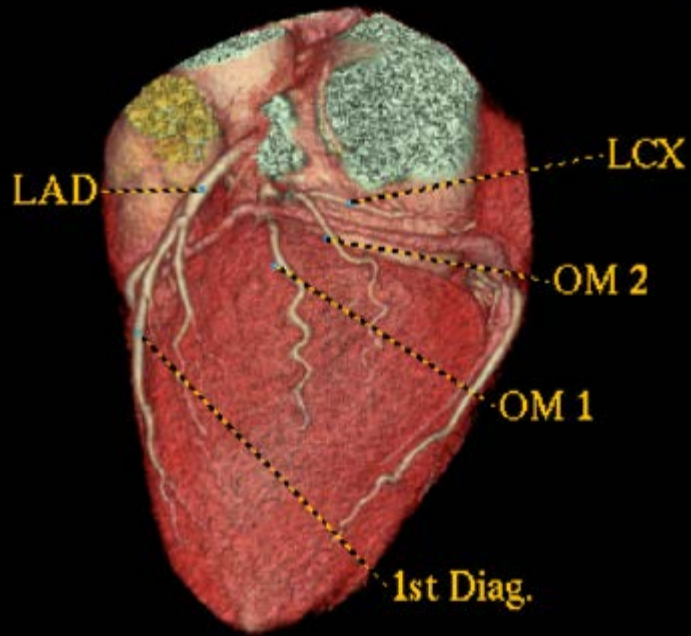
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Coronary Arteries

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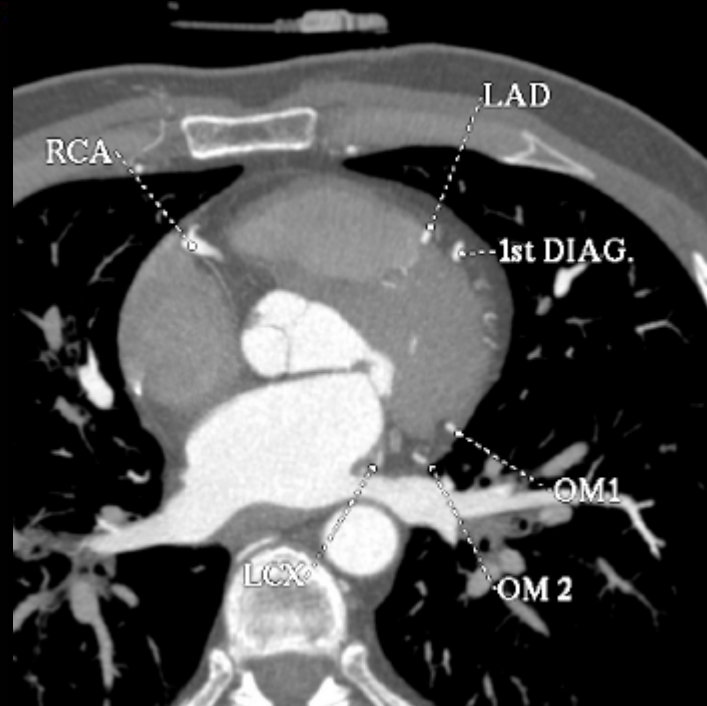
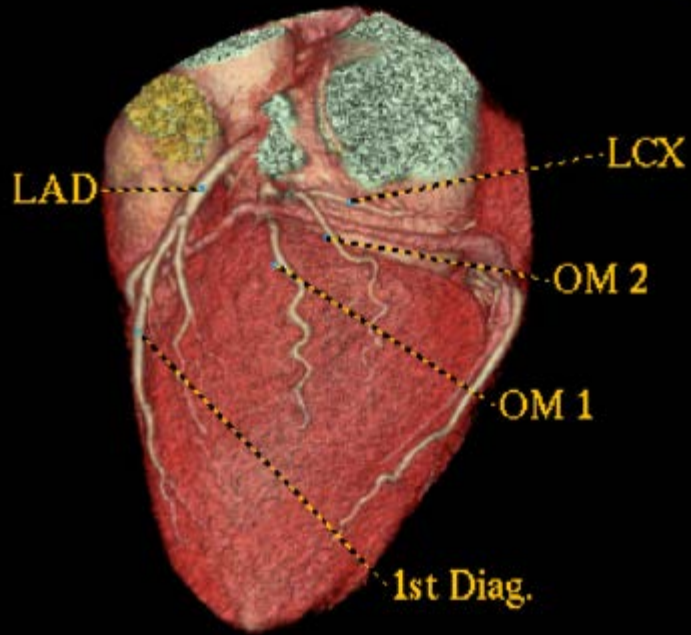
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Coronary Arteries

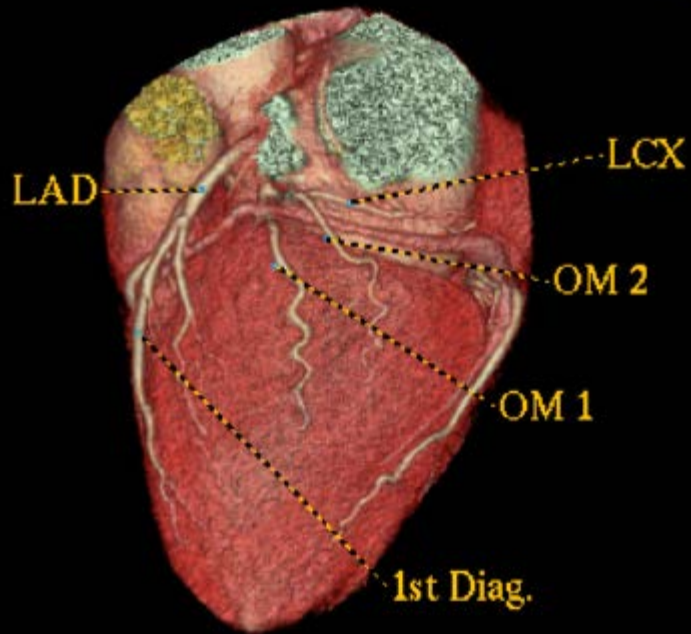
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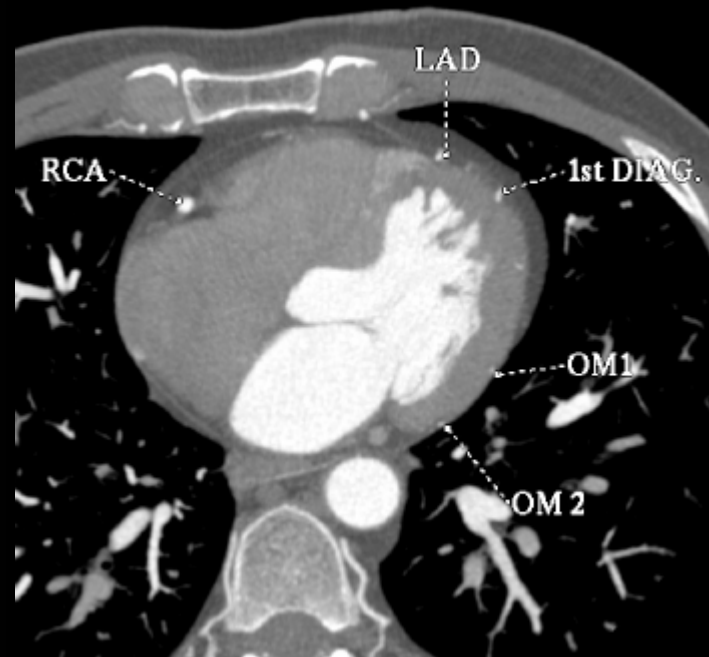


Coronary Arteries

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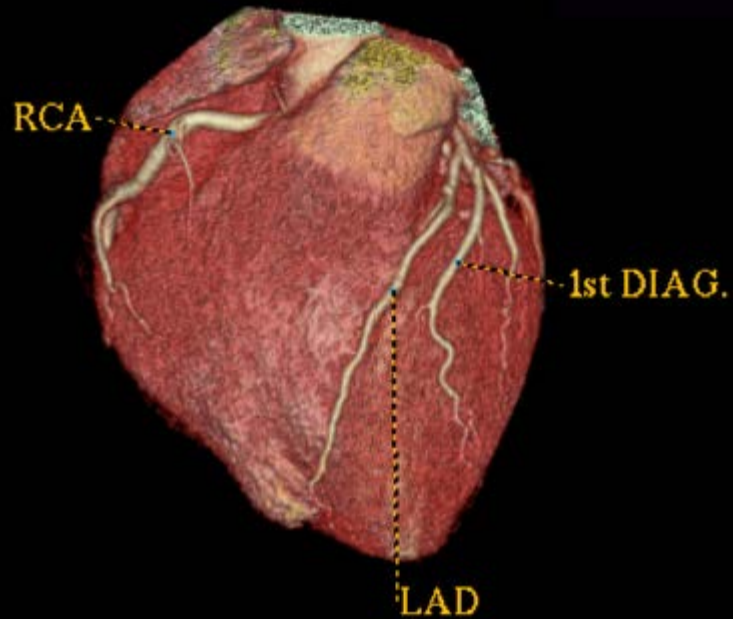


Axial



Coronary Arteries

Volume Rendered



Axial



CT BASIC ANATOMY

Questions?



Thank you

For further information please contact your local application specialist or GE call center.

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Imagination at work.