

Prezentare de caz

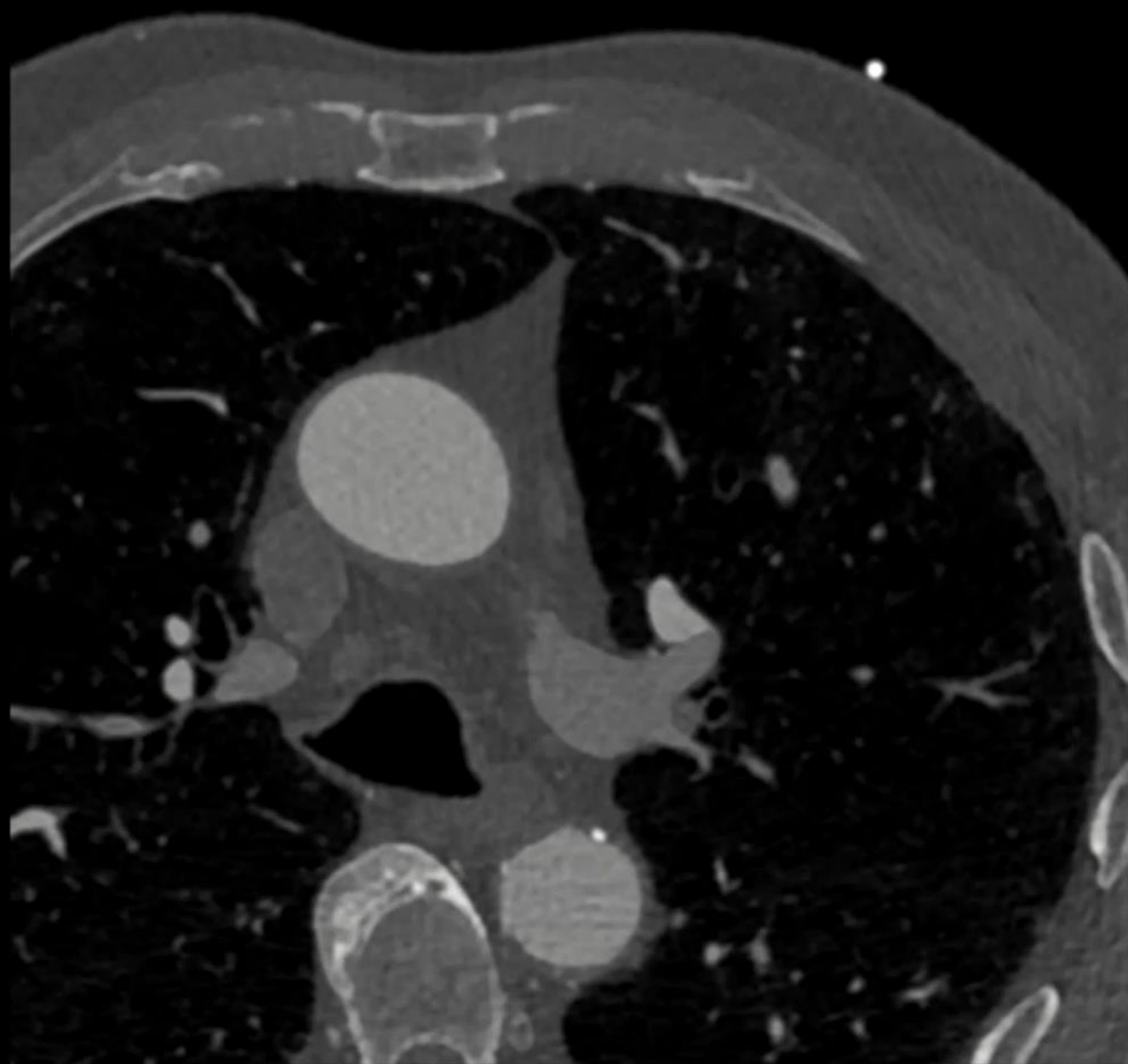
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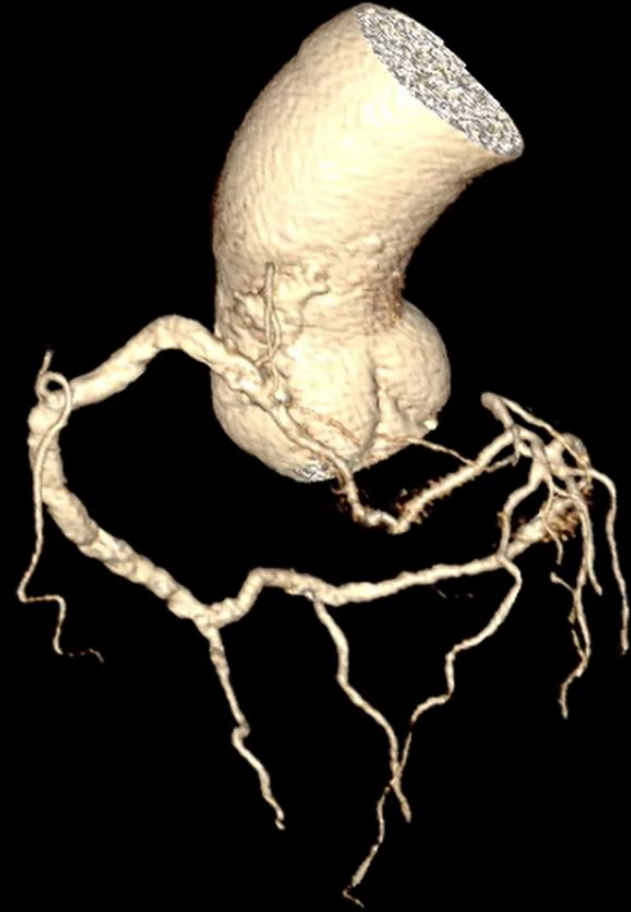
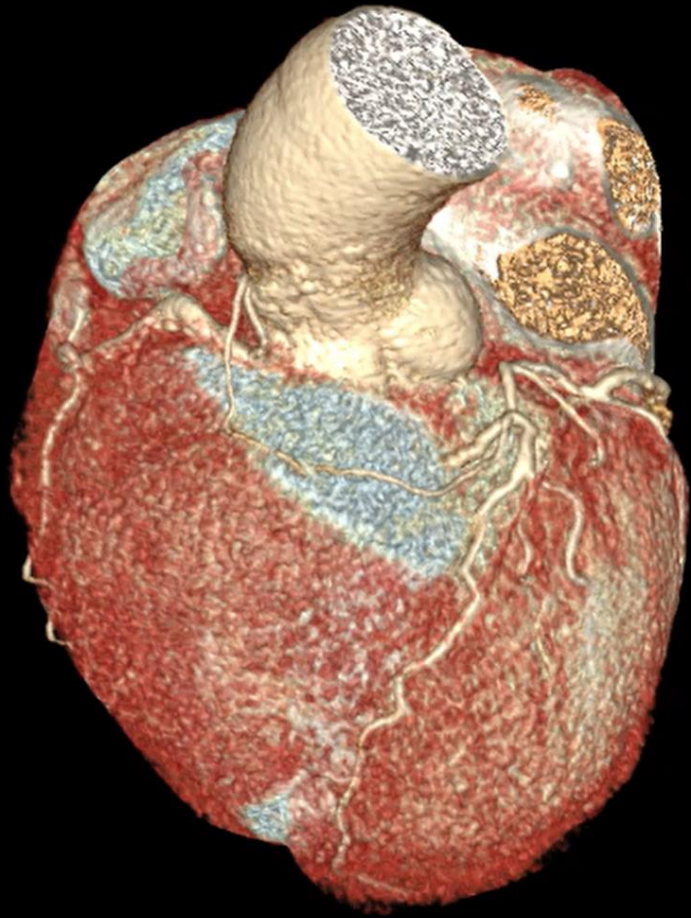
- B, 75 ani;
- Diagnostic de trimitere: boală cardiacă ischemică;
- Angină pectorală la efort, fără modificări EKG sau ecocardiografice;

Artery	Lesions	Volume / mm³	Equiv. Mass / mg	Score
LM	1	35.7	6.95	44.9
LAD	1	18.0	4.78	30.8
CX	2	38.0	9.11	49.3
RCA	9	2942.7	722.77	3711.4
Ca	0	0.0	0.00	0.0
Total	13	3034.5	743.61	3836.3
U1	0	0.0	0.00	0.0
U2	0	0.0	0.00	0.0

Settings
Score Type: Agatston equivalent, Threshold: 130 HU (105.3 mg/cm² CaHA)
Mass calibration factor: 0.81



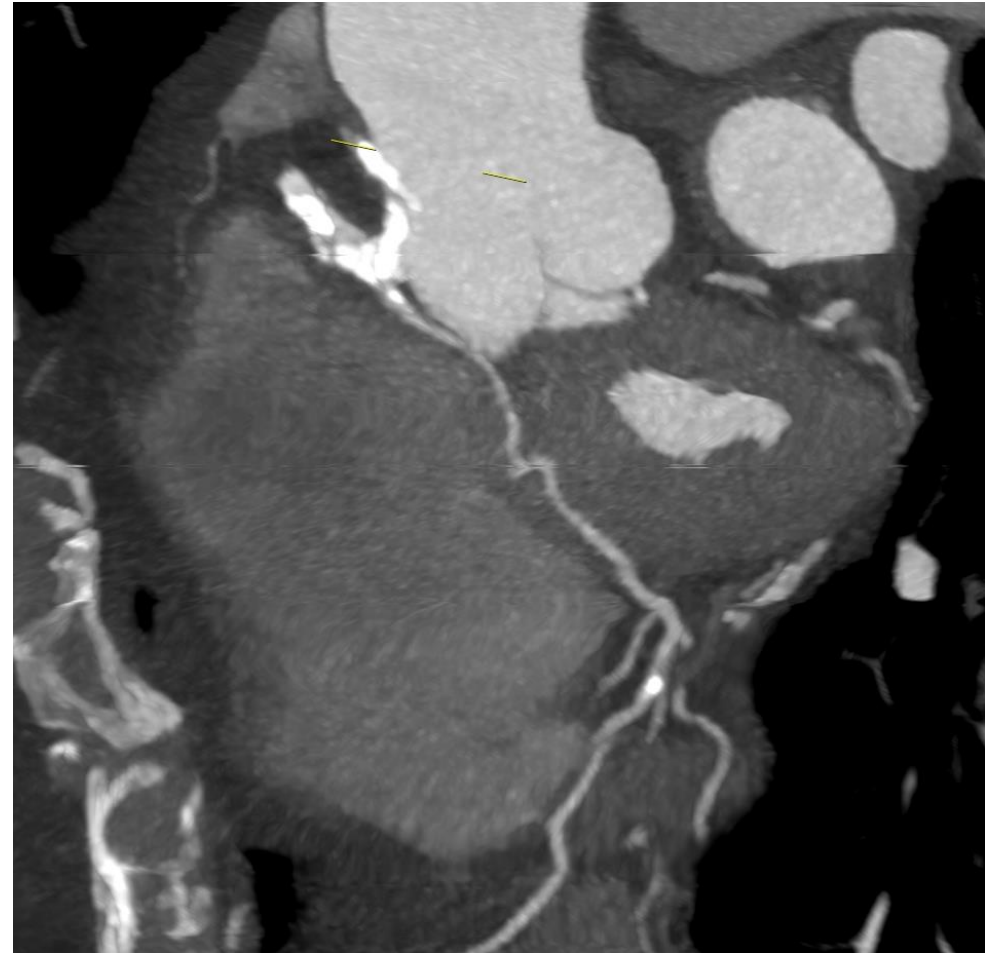




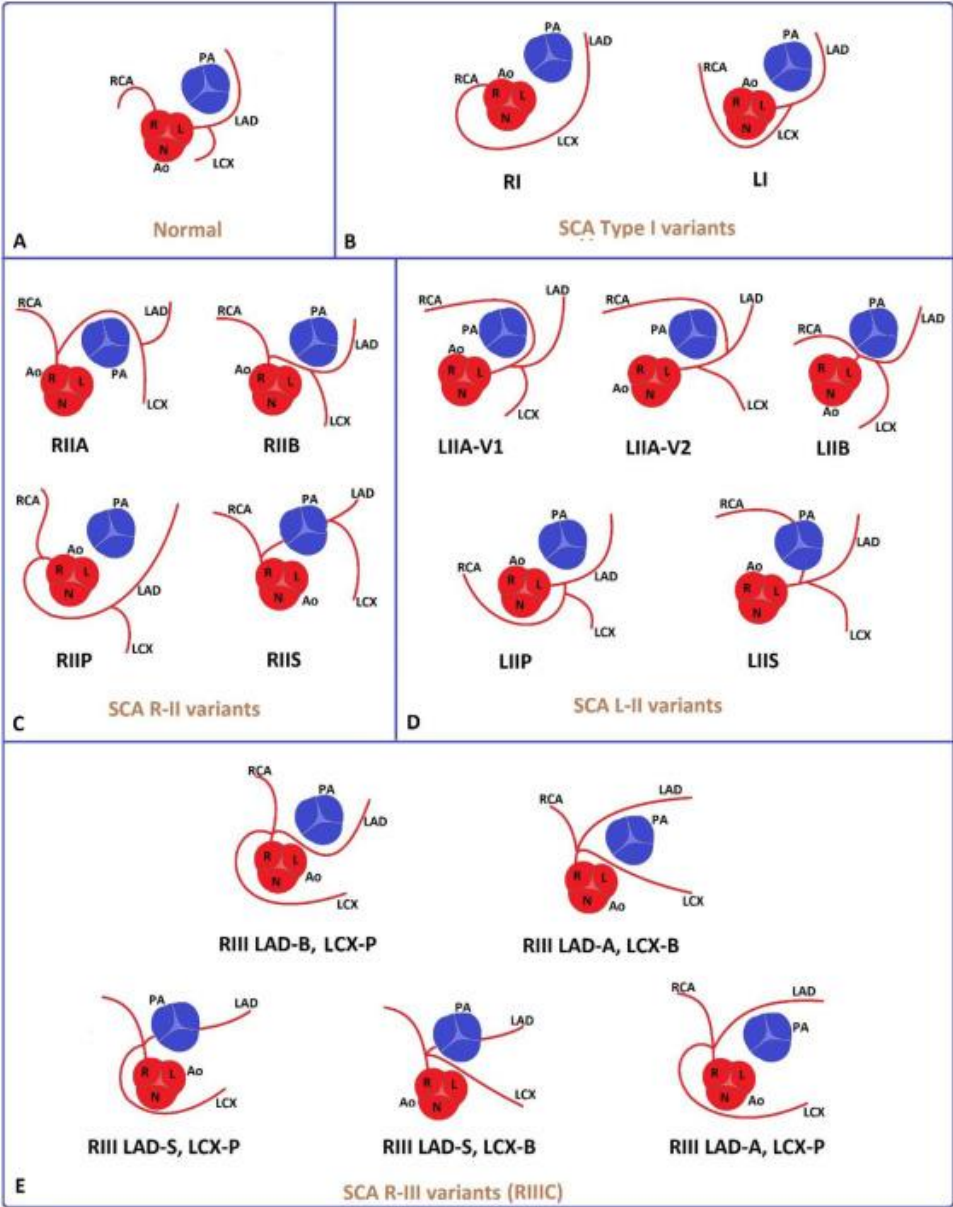
Artera coronară dreaptă



Trunchi coronarian stâng

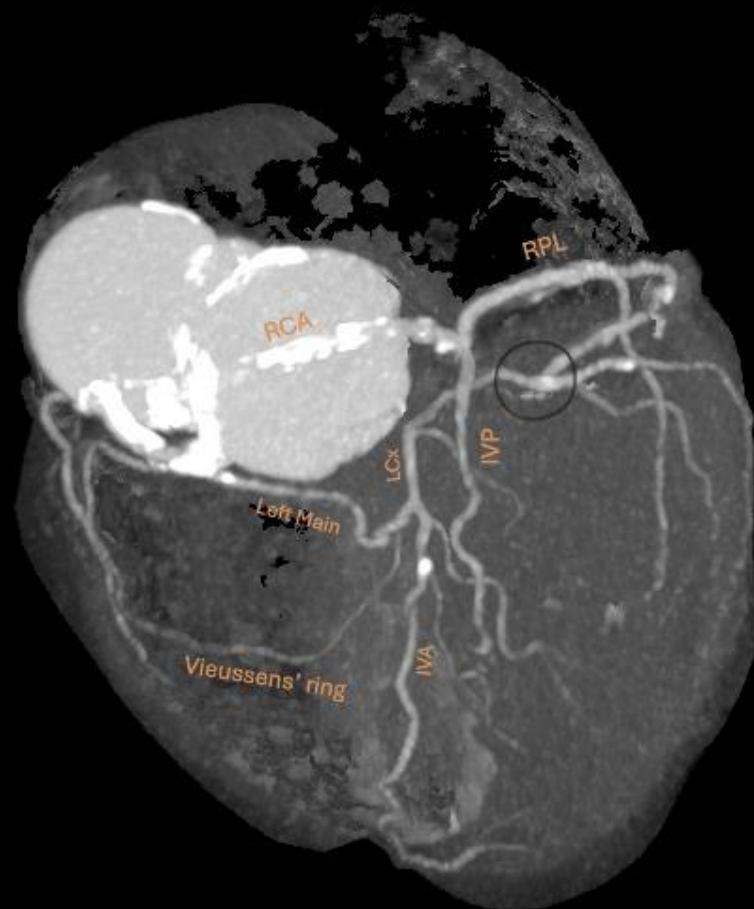


Clasificarea Lipton-Yamanaka a arterelor coronare unice

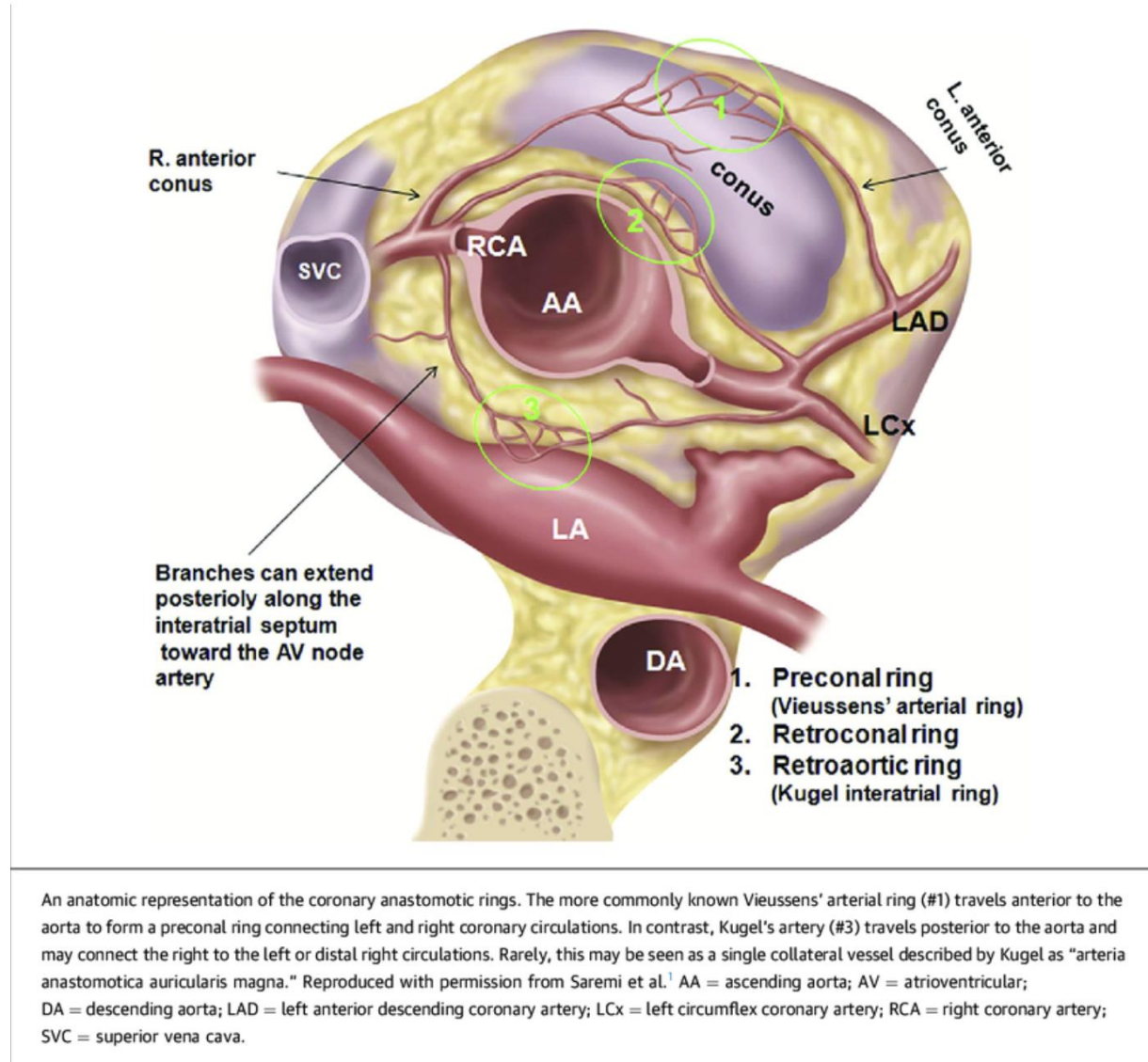


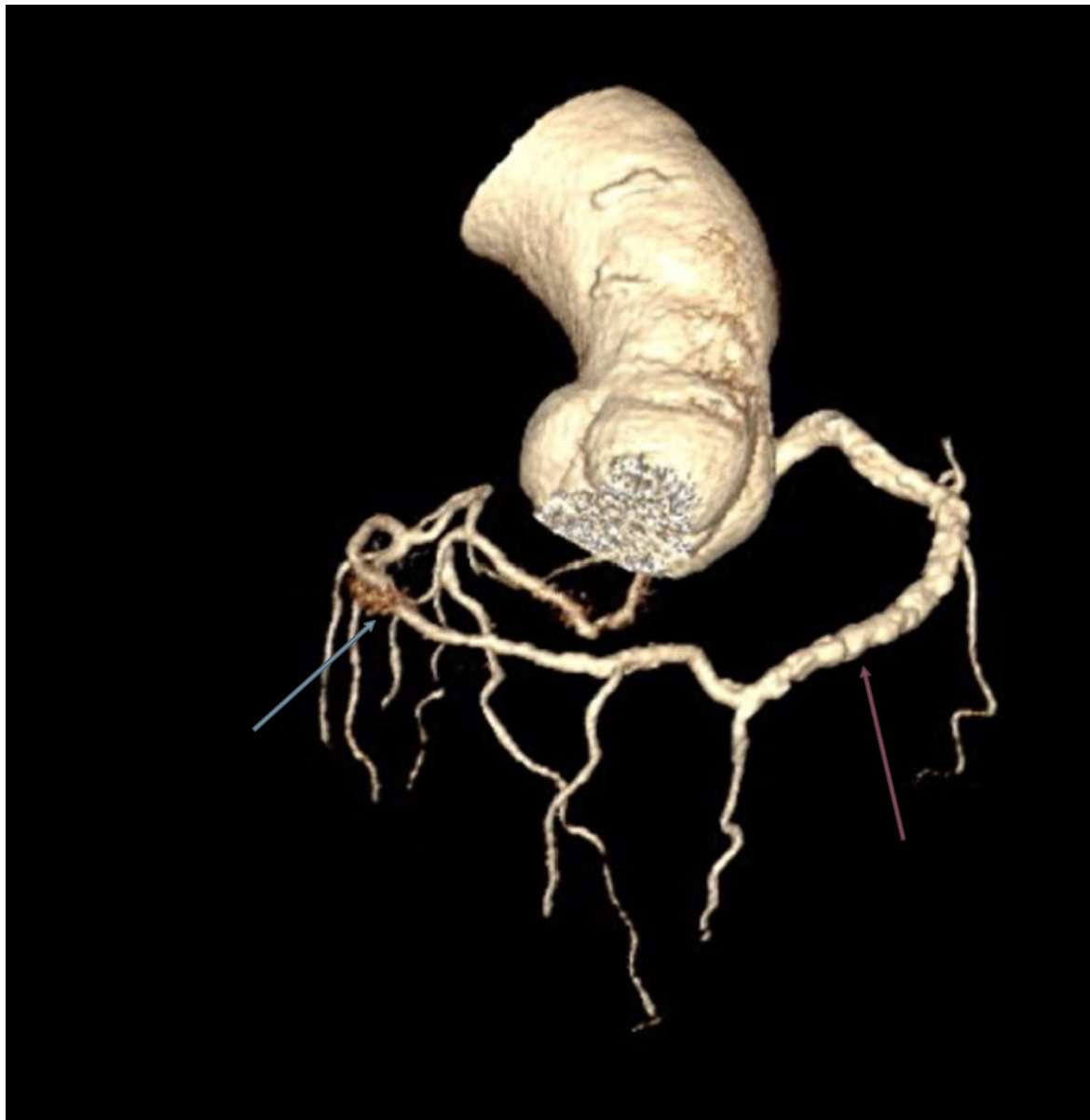
See for:	Finding:	Code:
Origin of SCA	Right coronary sinus	R
	Left coronary sinus	L
Branching pattern	Single dominant artery following the course of either RCA or LCA-LAD	I RI: Single RCA continuing in left atrioventricular groove to become LCX and terminate as LAD L1: LCA is dominant with RCA arising from LCX
	Normally located one coronary artery gives another coronary artery by early branching (ie, from proximal aspect)	II RII: LCA branches from RCA originating at right coronary sinus LII: RCA branches from LCA originating at left coronary sinus
	Absent LCA with RCA, LAD and LCX branching from SCA at right coronary sinus	III
Course of transverse artery	Anterior to pulmonary artery	A
	Inter-arterial course	B
	Posterior to aorta	P
	Trans-septal course through interventricular septum	S
	Combination of diverse routes	C

LAD, Left anterior descending artery; LCA, Left coronary artery; LCX, (Left) Circumflex artery; RCA, Right coronary artery; SCA, Single coronary artery.



Anastomozele inter-/intracoronariene





Arcadă coronariană: imagine 3D a inelului vascular format prin anastomoza dintre artera coronară dreaptă (RCA) (săgeata roșie) și artera circumflexă (săgeata albastră)

Intercoronary communication: a rare coronary anomaly

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The Egyptian Heart Journal **76**, Article number: 142 (2024) | [Cite this article](#)

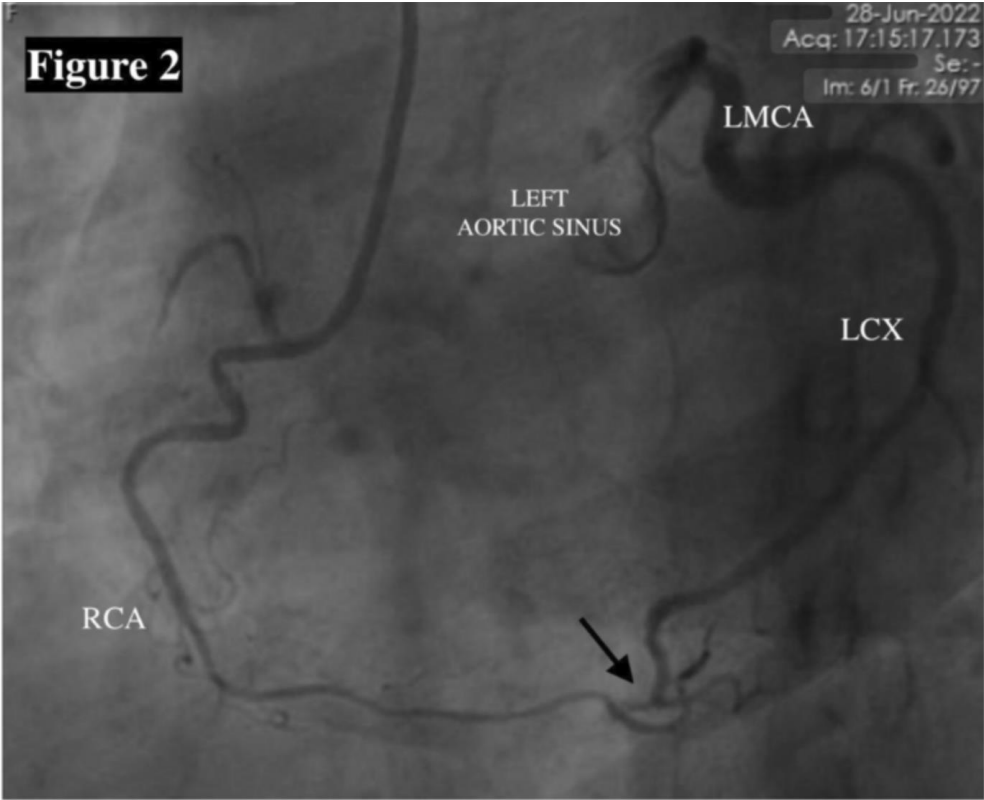
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Table 1 Differentiation between collateral vessel and intercoronary communication

From: [Intercoronary communication: a rare coronary anomaly](#)

Collateral vessel	Intercoronary communication
Associated with proximal obstructive lesion	No evidence of proximal obstruction
Usually multiple	Usually single
Course is tortuous and twisted	Usually straight
Size is less than 1 mm	Large caliber
Histology: Composed of endothelium supported by poorly organized collagen, muscle and elastic fibers	Histology: Similar to epicardial vessel with a well-defined muscular layer

The prevalence of coronary artery anomalies in routine angiographic series is 0.3–1.3%. One such rare anomaly is intercoronary communication, also known as coronary cascade or coronary arcade, which has an incidence of only 0.002% .It is thought that a fault in the embryologic development contributed to the persistent existence of the intercoronary channel.



Coronary angiography of RCA in LAO view showing co-dominant RCA. There is an abnormal channel (arrow) connecting the right posterolateral branch to the distal LCX causing retrograde filling of LCX up to LMCA and left aortic sinus

Concluzii

- Arteră coronară unică din sinusul coronarian drept, cu scurt trunchi comun din care emerg a. coronară dreaptă și o ramură corespunzătoare TCS:
 - ACD cu traiect fiziologic, cu anastomoză intracoronariană RPL-Acx (“arcadă coronariană”);
 - TCS hipoplazic, cu traiect intramiocardic profund, în septul bazal VS, din care emerg la nivelul spațiului epicardiac interventricular anterior bazal – IVA și ACx
 - Anastomoză intracoronariană între a. conului și segmentul distal, epicardic, al TCS – inel Vieussens
 - Tip R – II – S conform clasificării Lipton Yamanaka
- Stenoză severă >70% în segmentul proximal al arterei coronare unice
- -> CAD-RADS 2.0: 4B/P4/E
- Diagnostic diferențial:
 - Atrezie TCS – în cazul absenței complete a TCS; extrem de rar descoperită la adulți; pacienții dezvoltă frecvent colaterale intercoronariene; necesită evaluare hemodinamică angiografică pentru evaluarea unor umpleri retrograde.

Vă mulțumesc!