

19 th Joint Meeting of Cardiovascular Intervention and Revascularization

Spontaneous Coronary artery Dissection

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Case Presentation

- **Case** 52 y.o, male
- **Coronary risk factor** Ex-smoker 8 years, No other risk factors for CAD, No regular medications
- **Present Illness** Sudden onset central chest pain associated with dyspnea

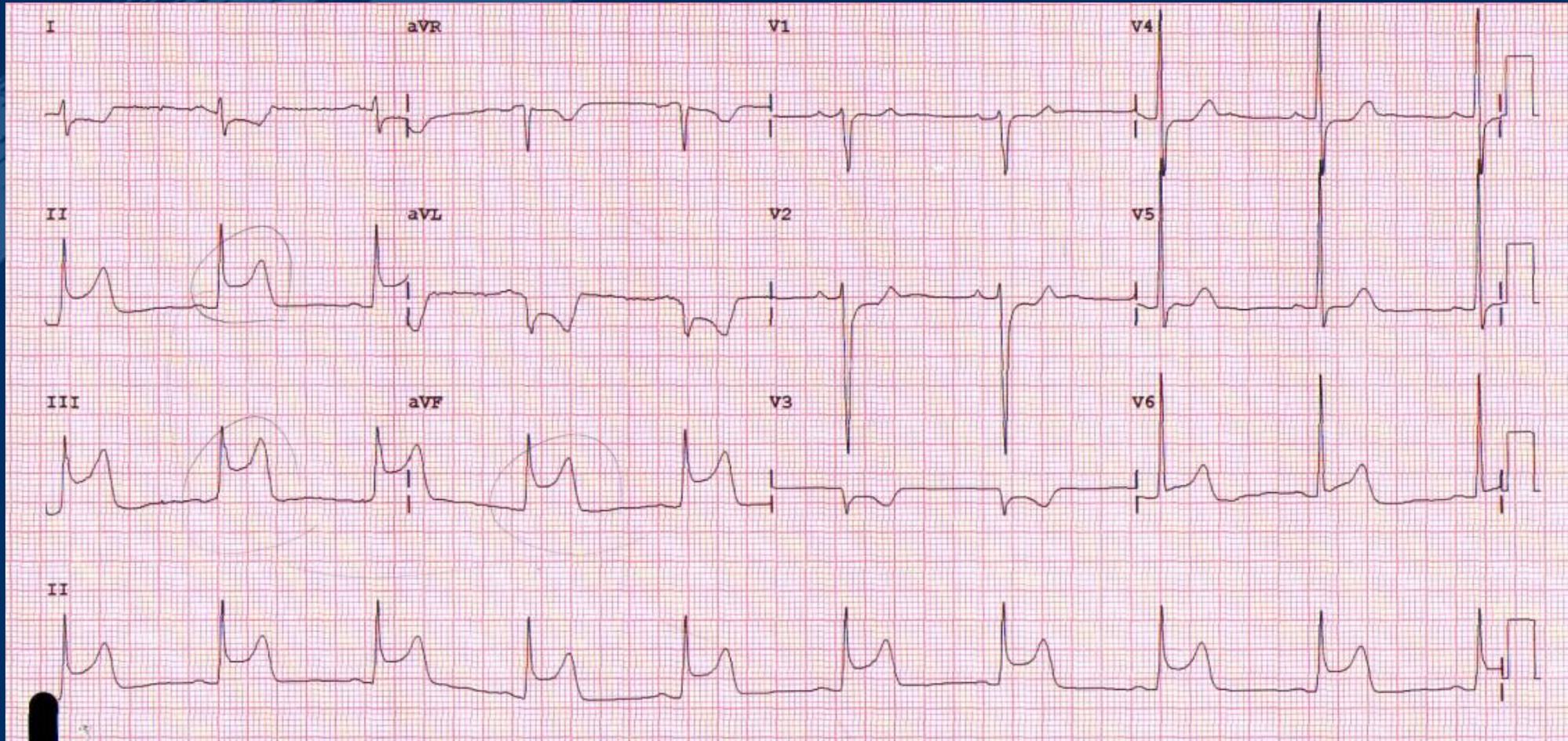
Given aspirin

Transferred by ambulance to our Hospital

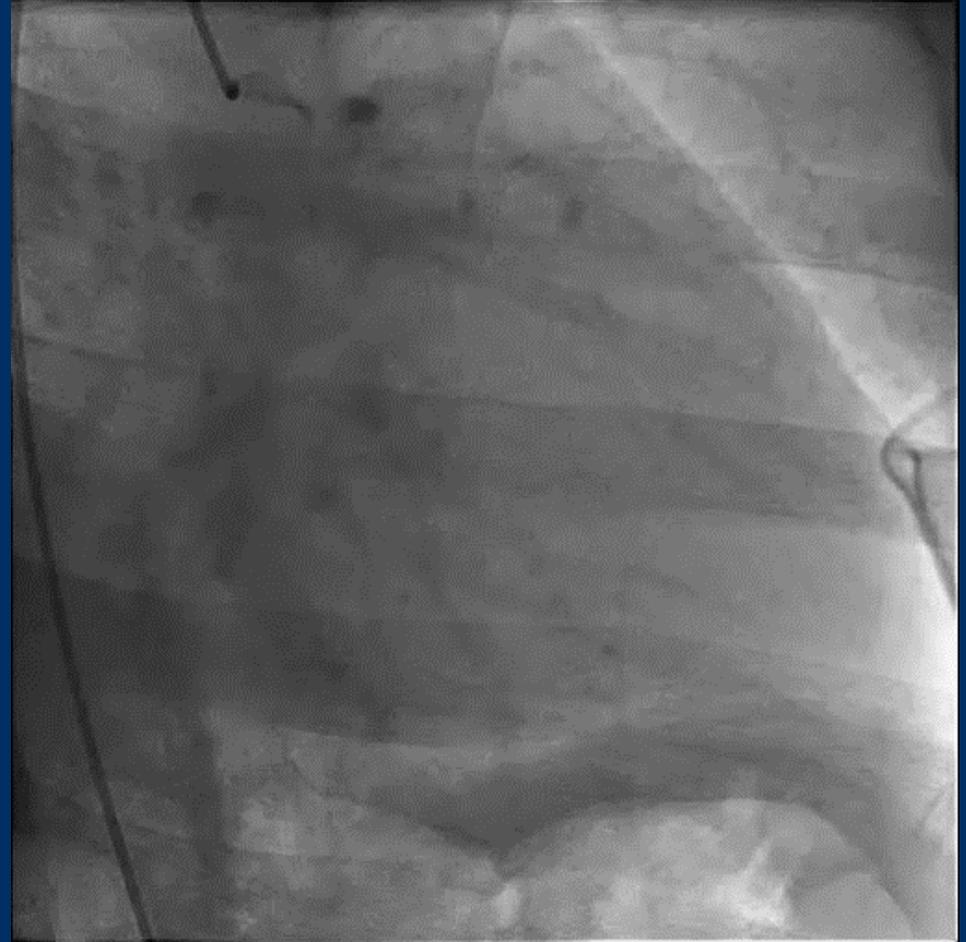
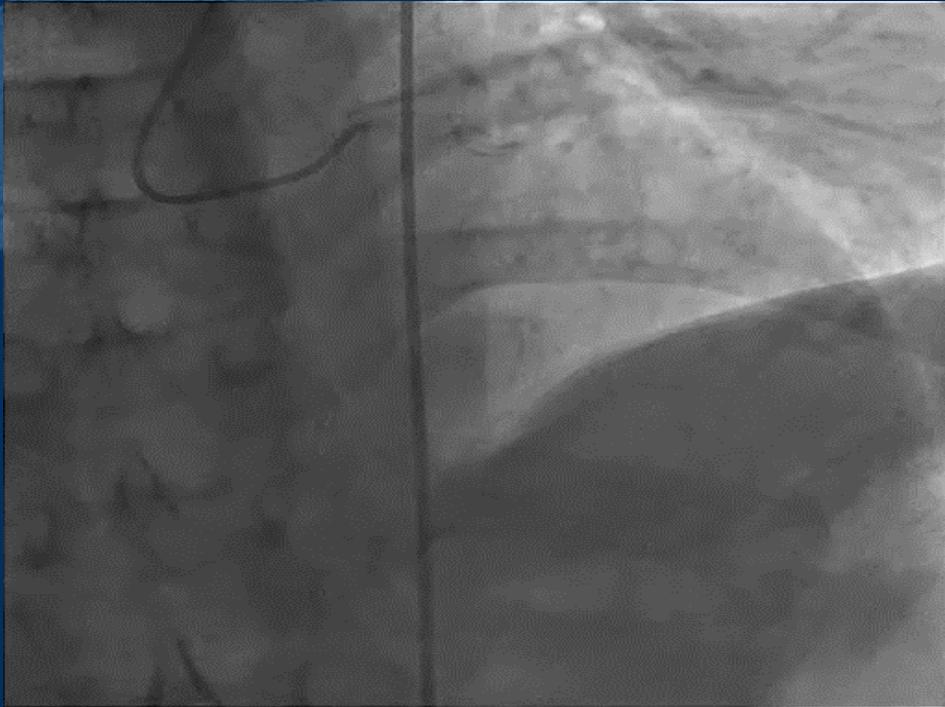
On arrival in Hospital was pain free and but ECG showed ST-elevation

After discussion transferred emergently for intervention.

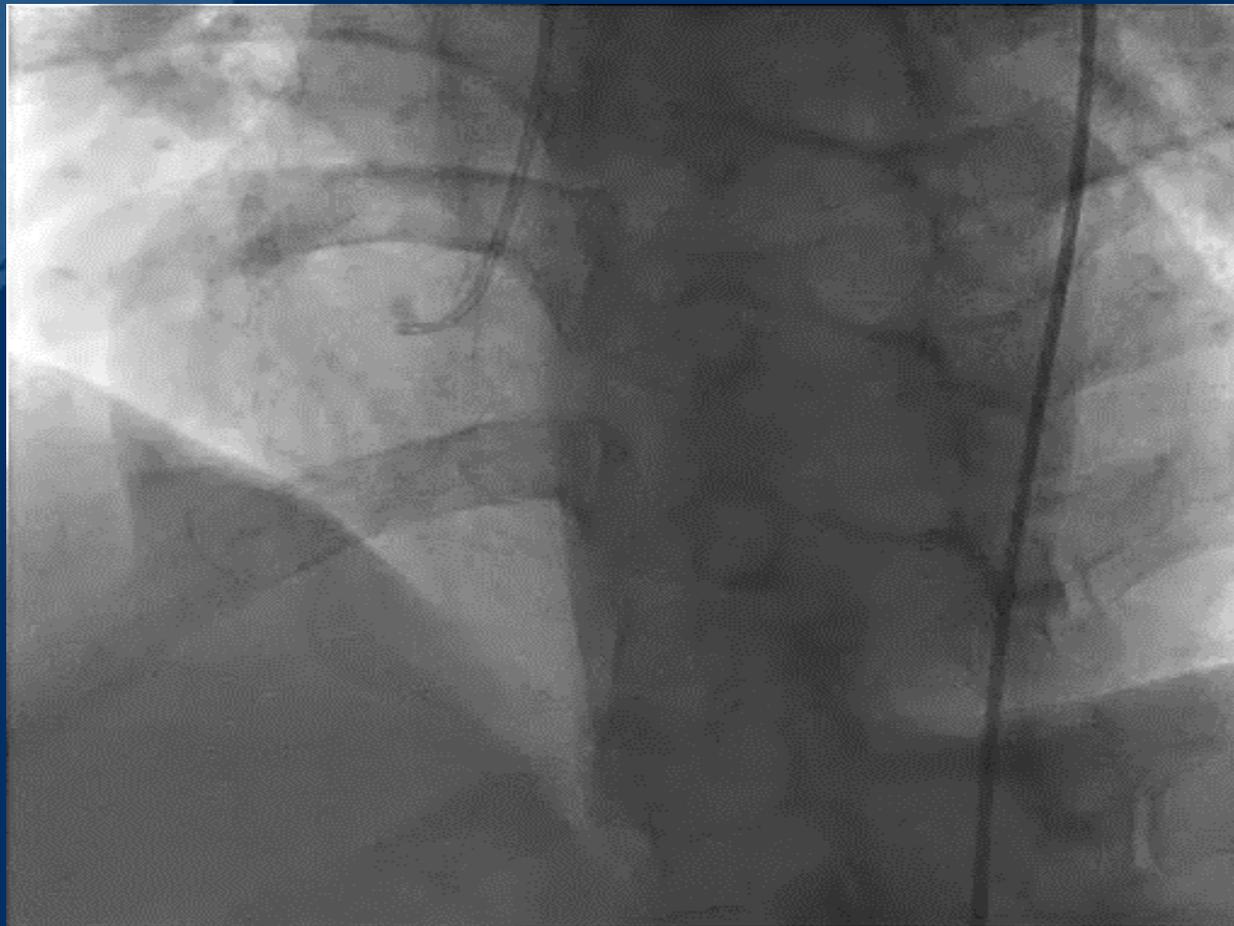
Initial ECG on arrival to Hospital



LCA



RCA



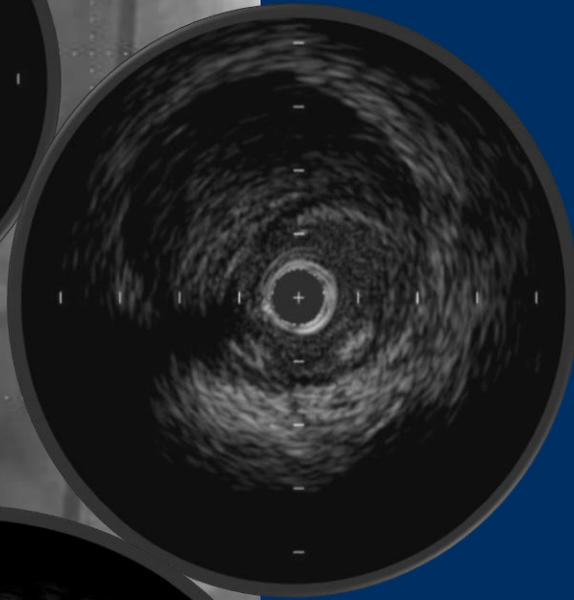
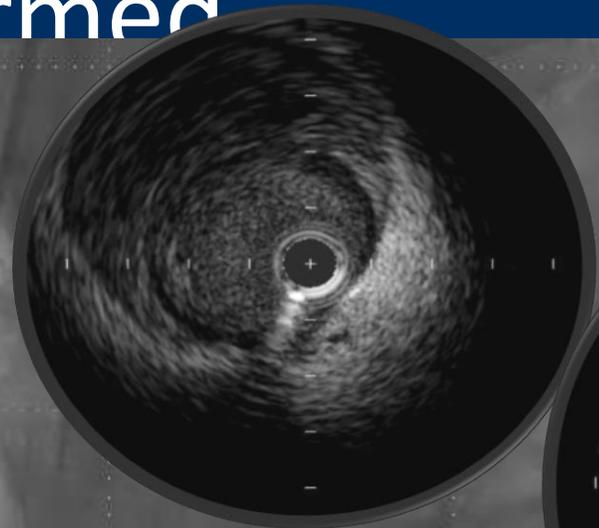
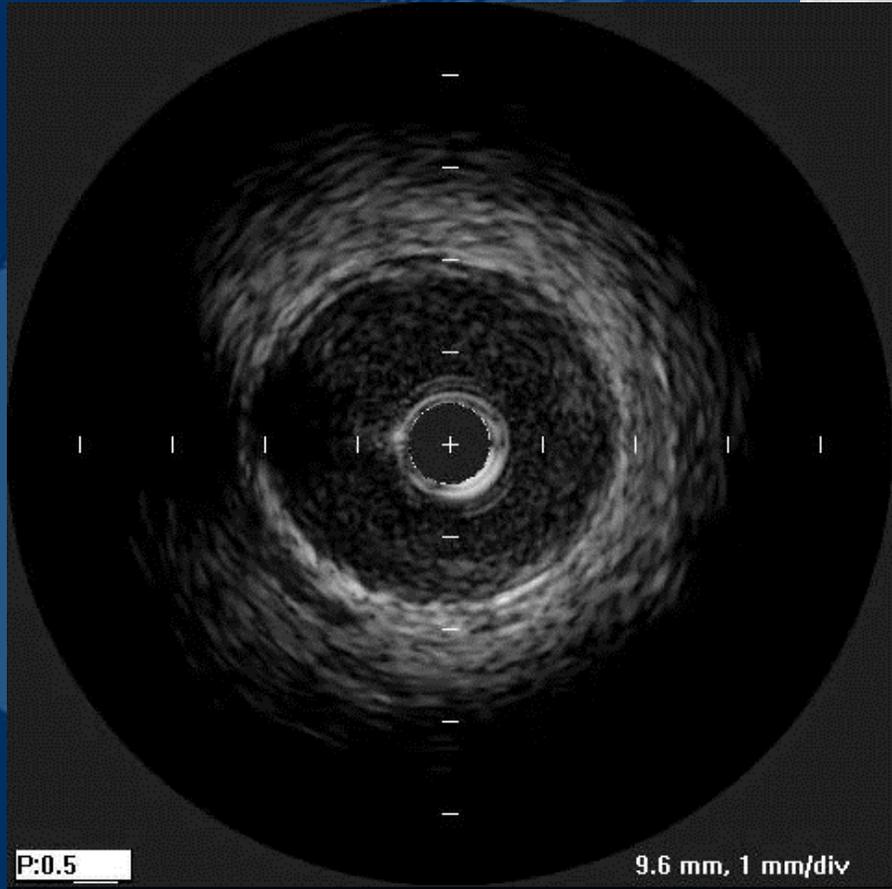
What Now

Next step

RCA



IVUS Performed



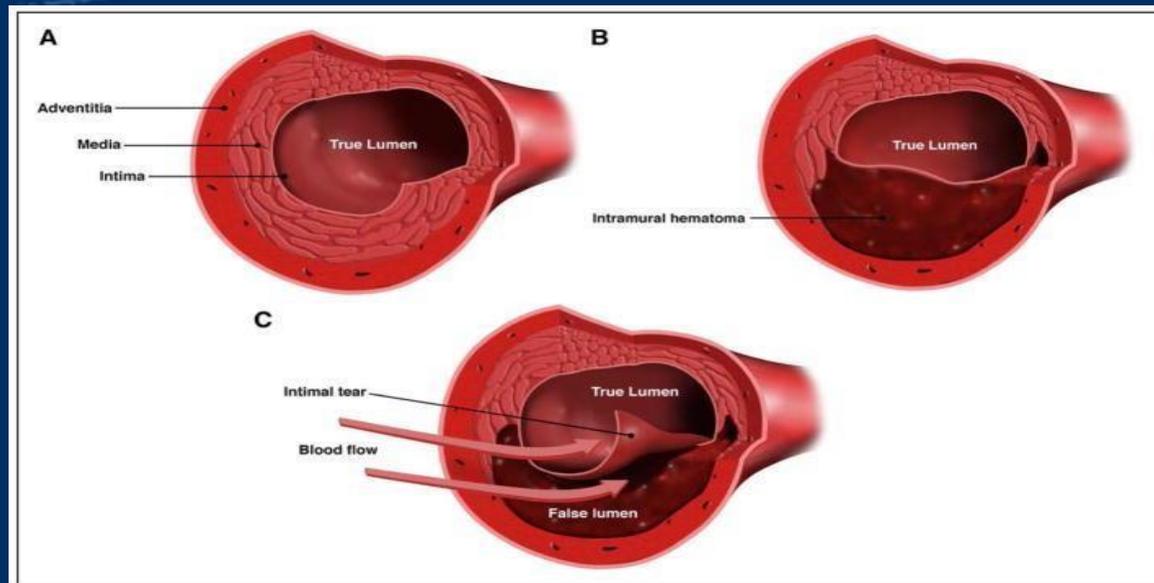
How would you treat ?

Treatment Options

- Medical therapy
- Stenting
- Fenestration with a cutting balloon

SCAD

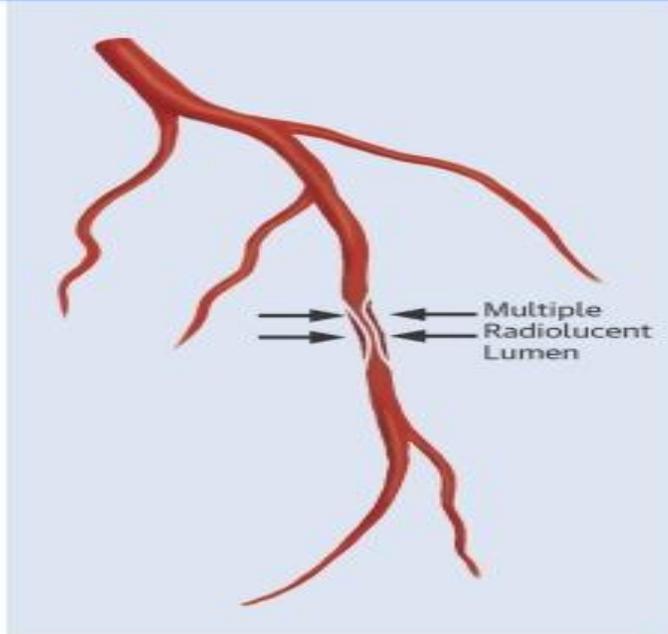
- Definition: Epicardial coronary artery dissection not associated with atherosclerosis or trauma and is not iatrogenic
- Leads to myocardial injury due to coronary artery obstruction caused by intramural hematoma or intimal disruption



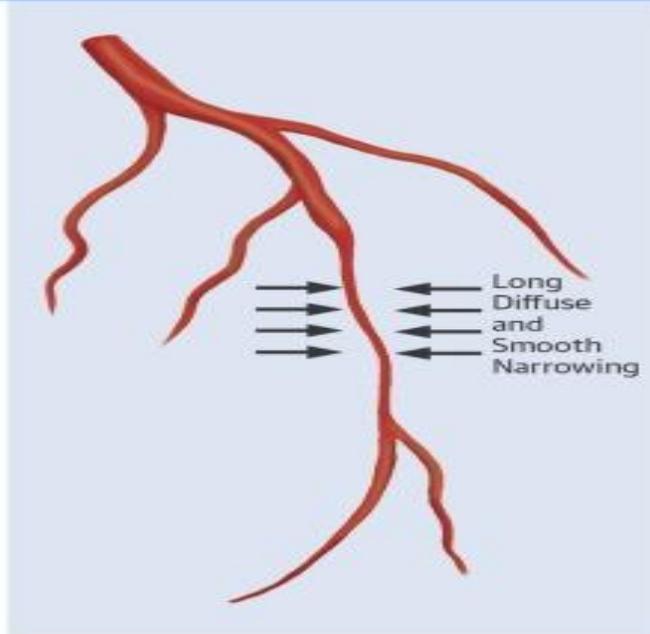
SCAD Classification

CENTRAL ILLUSTRATION: SCAD Classification

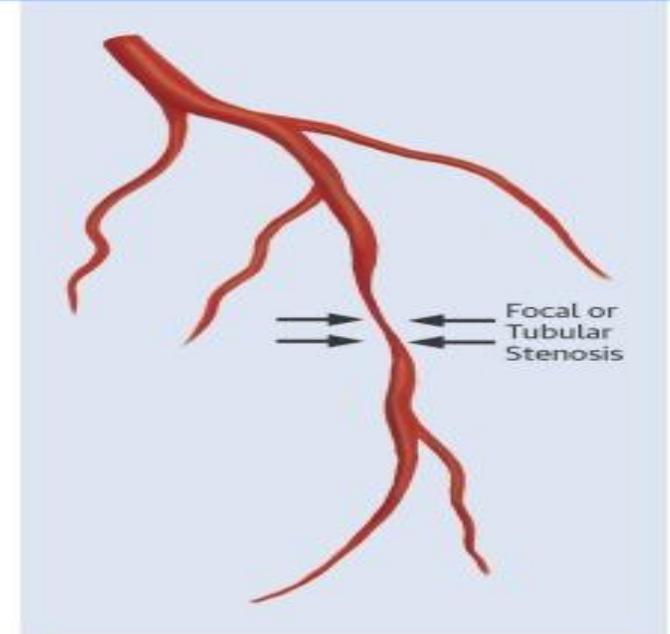
Type 1



Type 2



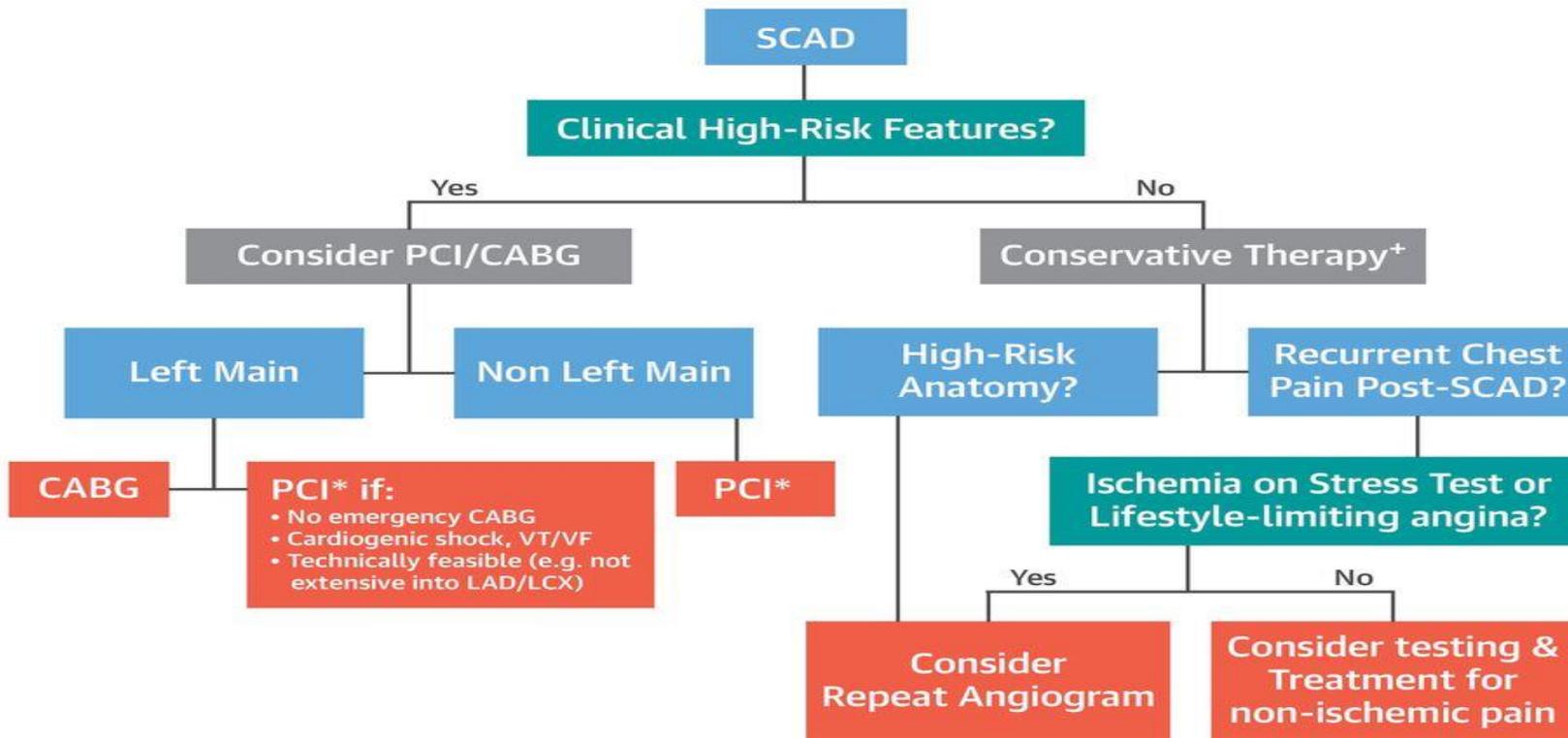
Type 3



Saw, J. et al. J Am Coll Cardiol. 2017;70(9):1148-58.

SCAD: Initial Management

CENTRAL ILLUSTRATION: Suggested Algorithm for Management and Repeat Angiography



Clinical High-Risk Features:

- Ongoing ischemia
- Cardiogenic shock
- Sustained ventricular arrhythmia
- Left main dissection

Options for PCI* (if feasible):

- POBA ± stent
- Cutting balloon ± stent
- Stenting:
 - Single long stent
 - Either edges first, then middle
 - Proximal first (to avoid retrograde extension)
 - Sequential stenting

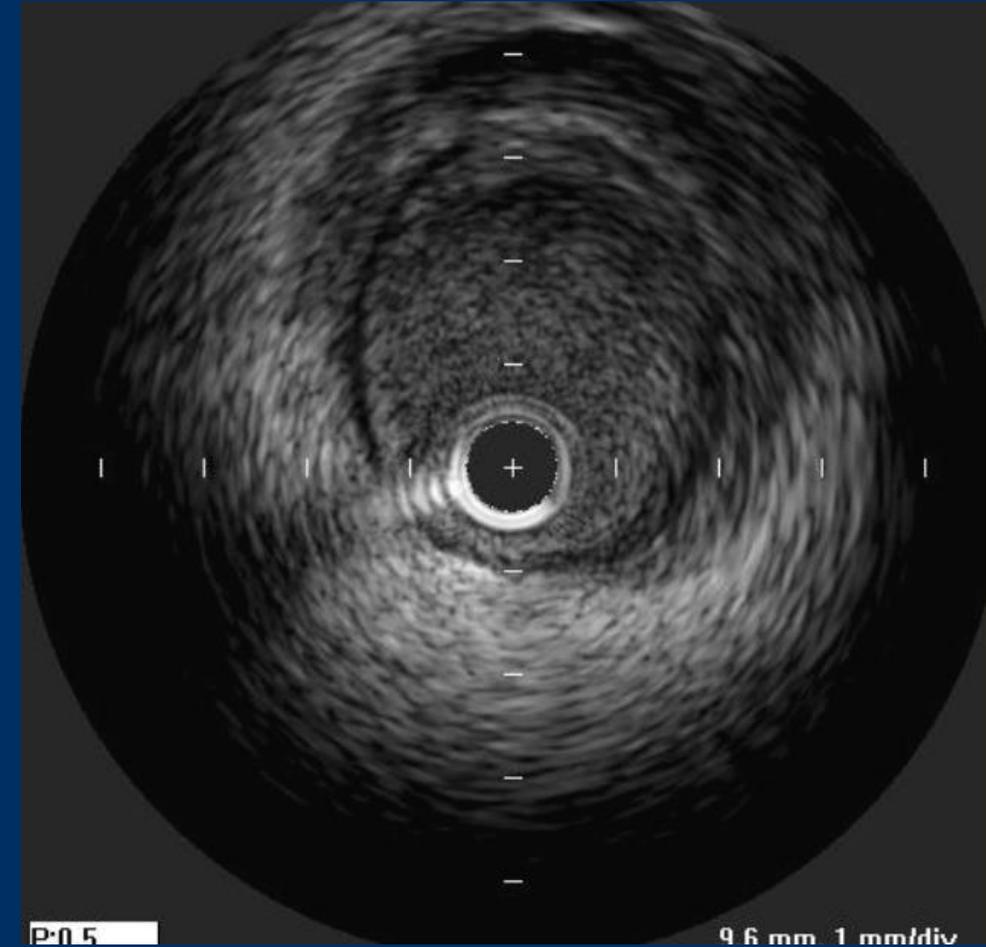
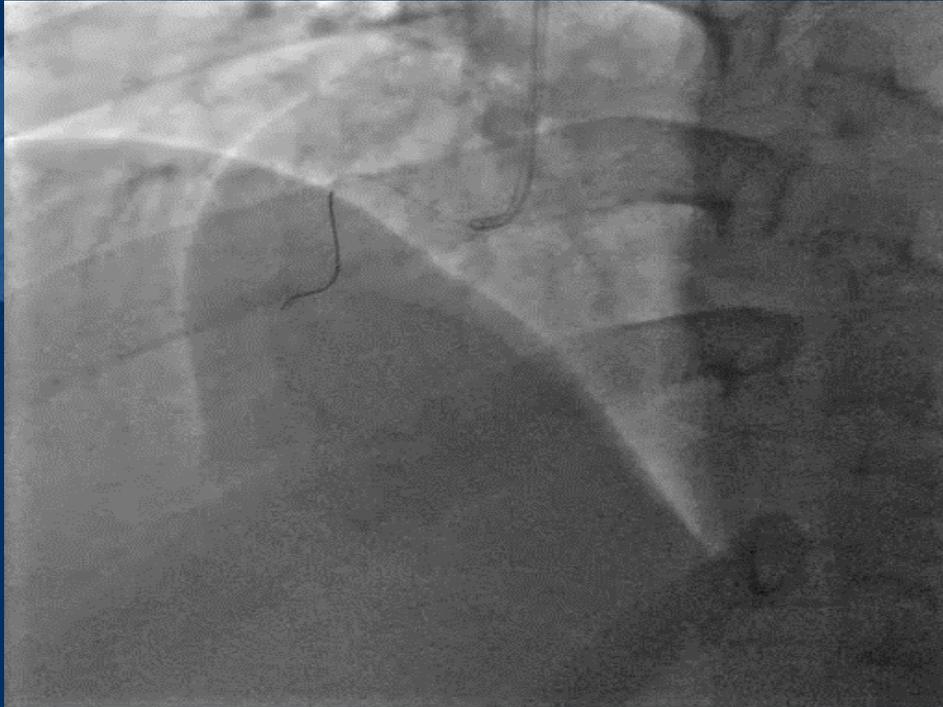
Conservative Therapy⁺:

- Aspirin
- Beta-blocker
- ± ADP antagonist, ACEi/ARB, statin, nitroglycerin, CCB

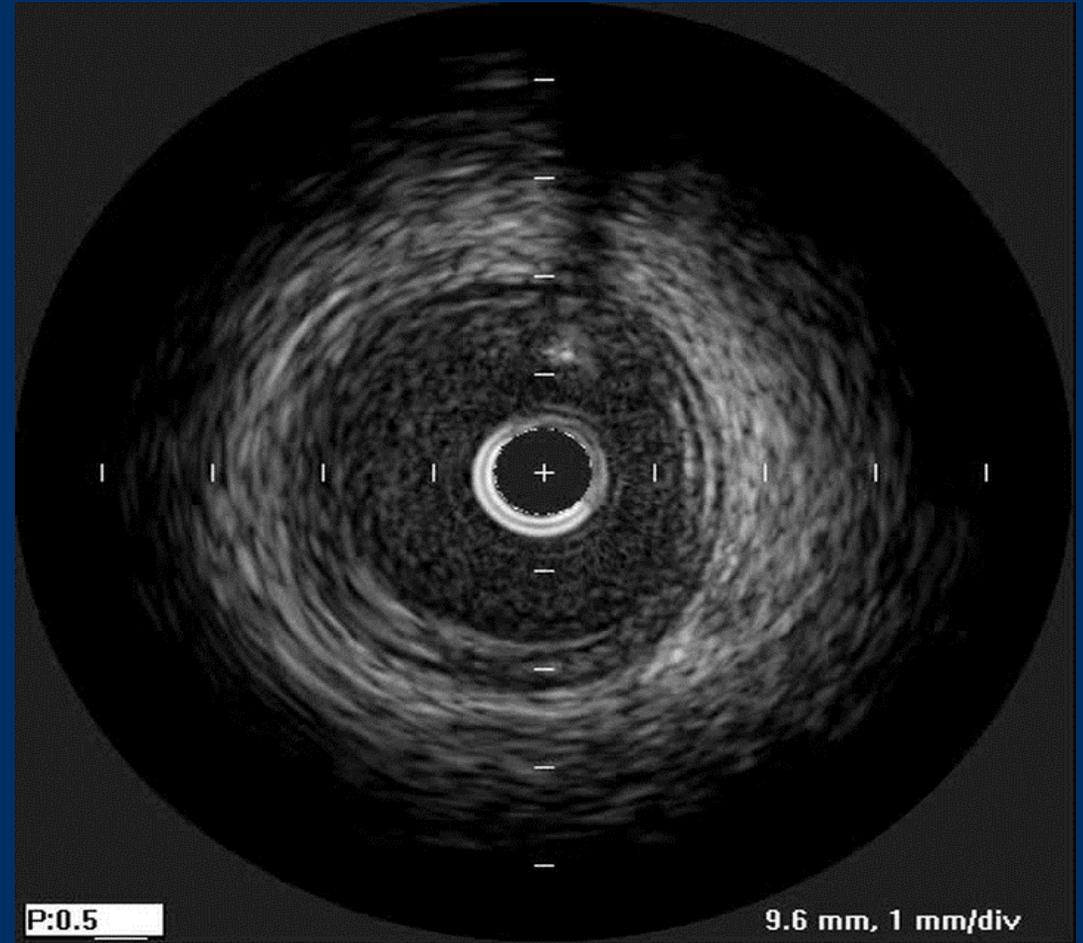
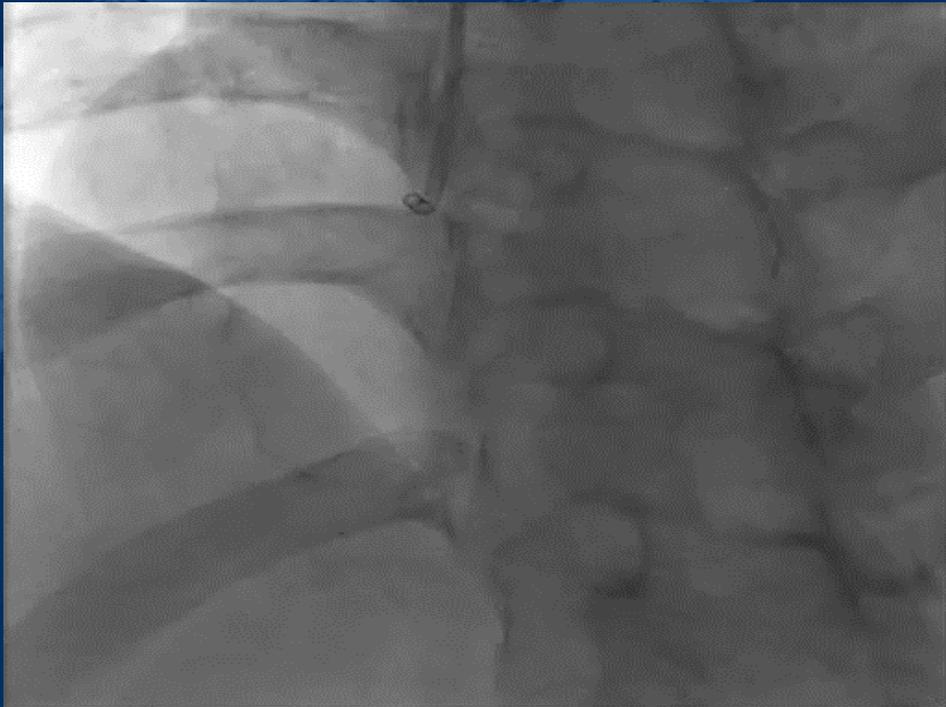
High-Risk Anatomy :

- Left main
- Proximal LAD, LCX, and/or RCA
- Multivessel SCAD

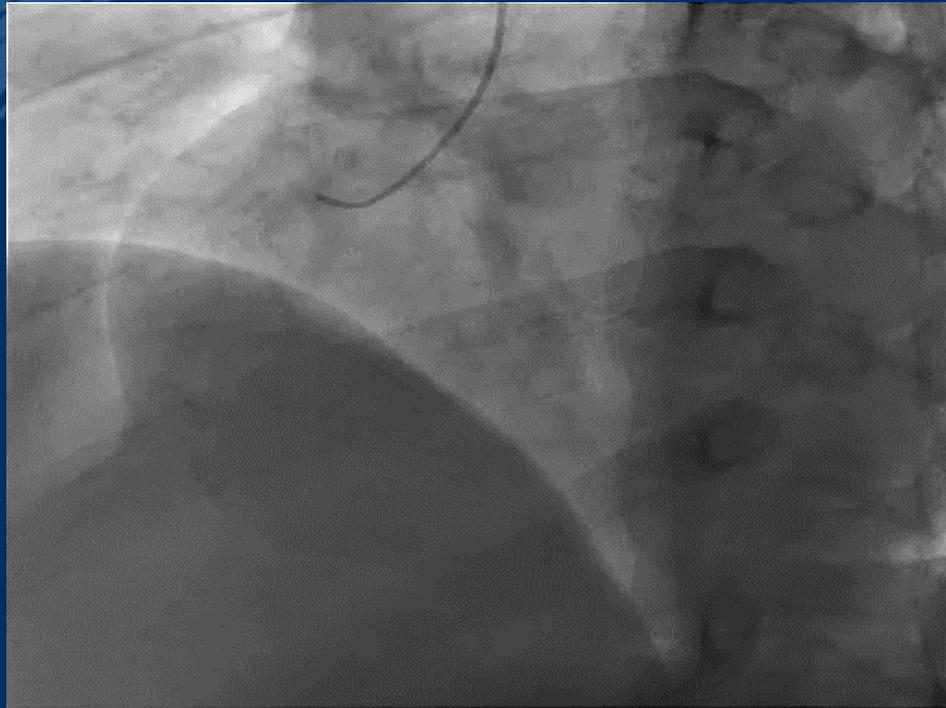
1 Week Follow-up



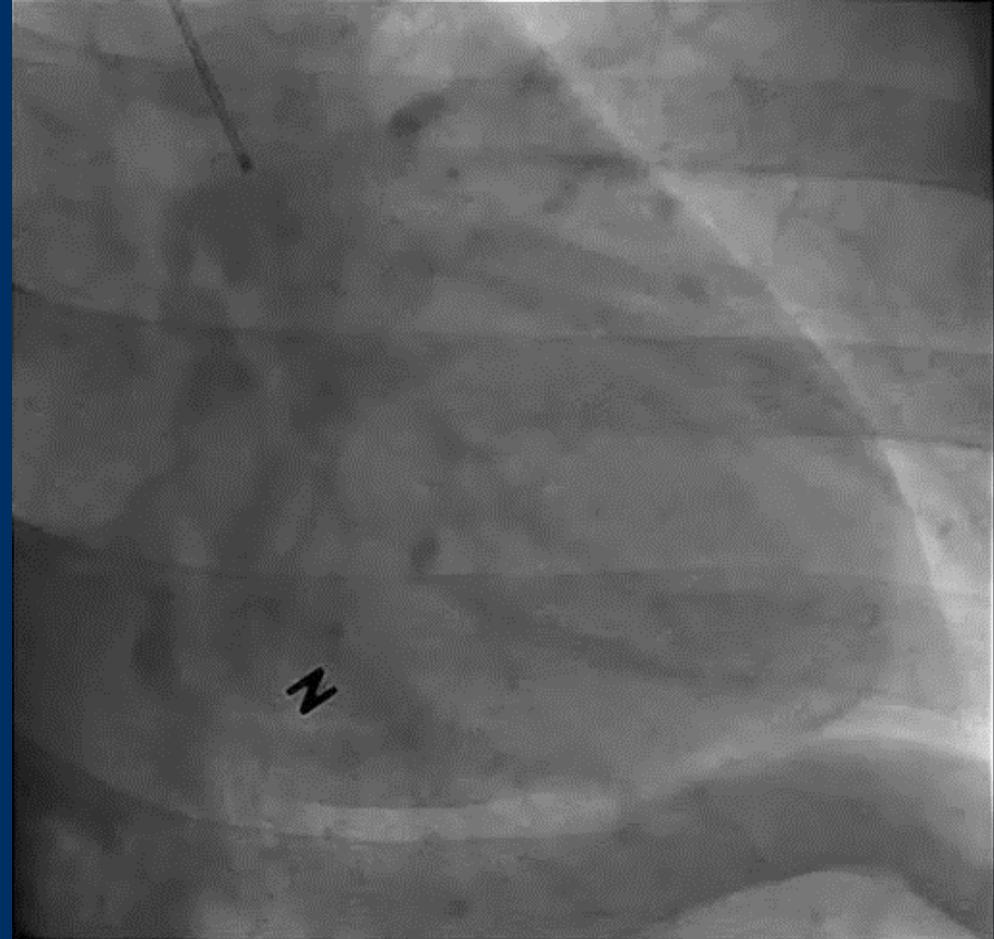
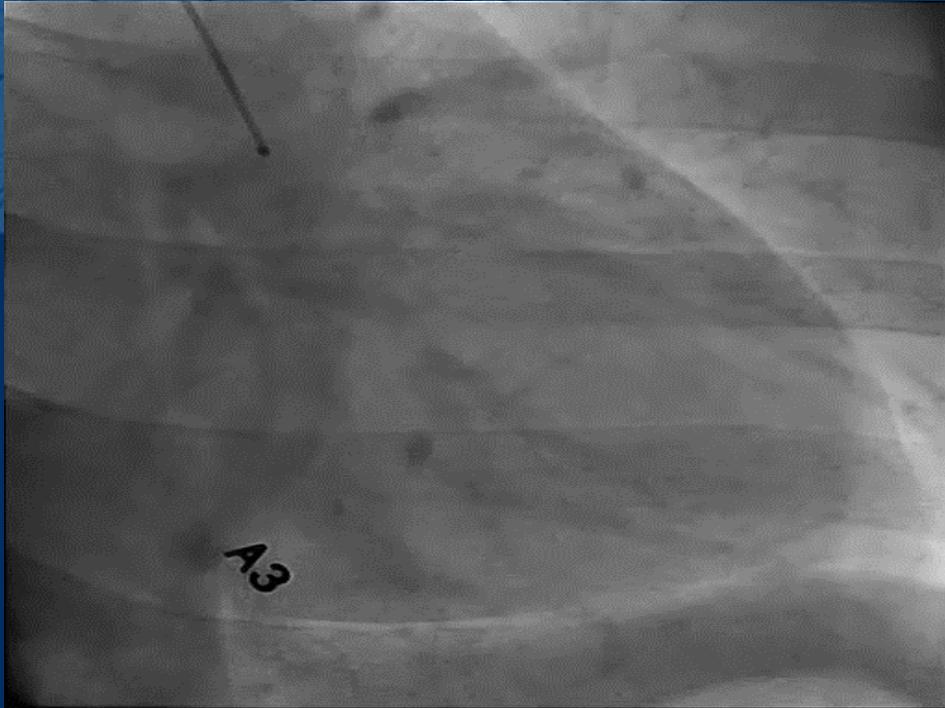
6 Month Follow-up

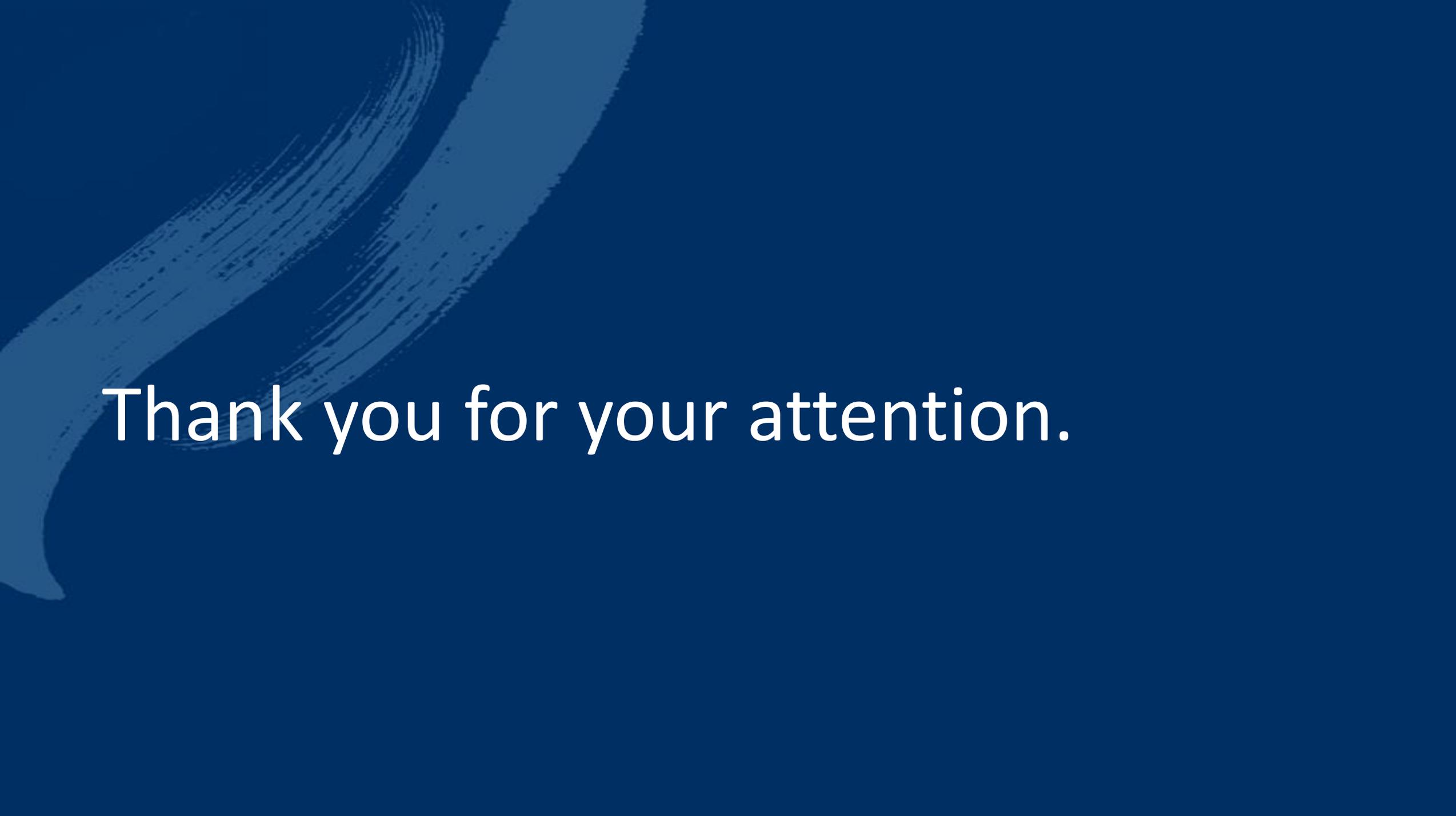


2 year Follow-up



2 year follow-up





Thank you for your attention.