

Debate 1: Proximal LAD CTO With Nice Collaterals, Treat or Not ? TREAT!

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*TCTAP 2023, Seoul, Korea, May 6-9, 2023
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Disclosure Statement of Financial Interest

Within the past 12 months, I have had a financial interest/arrangement or affiliation with the organization(s) listed below.

Affiliation/Financial Relationship

Consulting Fees/Honoraria

Equity

Company

Abott Vascular, Boston Scientific

Soundbite, Saranas, Traverse Vascular

Case 1

- **ID:**
 - M46 yo, very active, construction worker
- **PMHx:**
 - HTN / HLD / Family history of premature CAD / Former smoker (Quit 2014)
- **HPI:**
 - Typical CCS 2/4 angina on exertion since 2015. Relieved by intermittent sub lingual nitro
 - Slightly better with medical therapy, but lots of side effects

Case

- **Medication:**

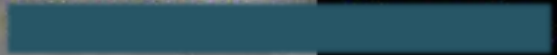
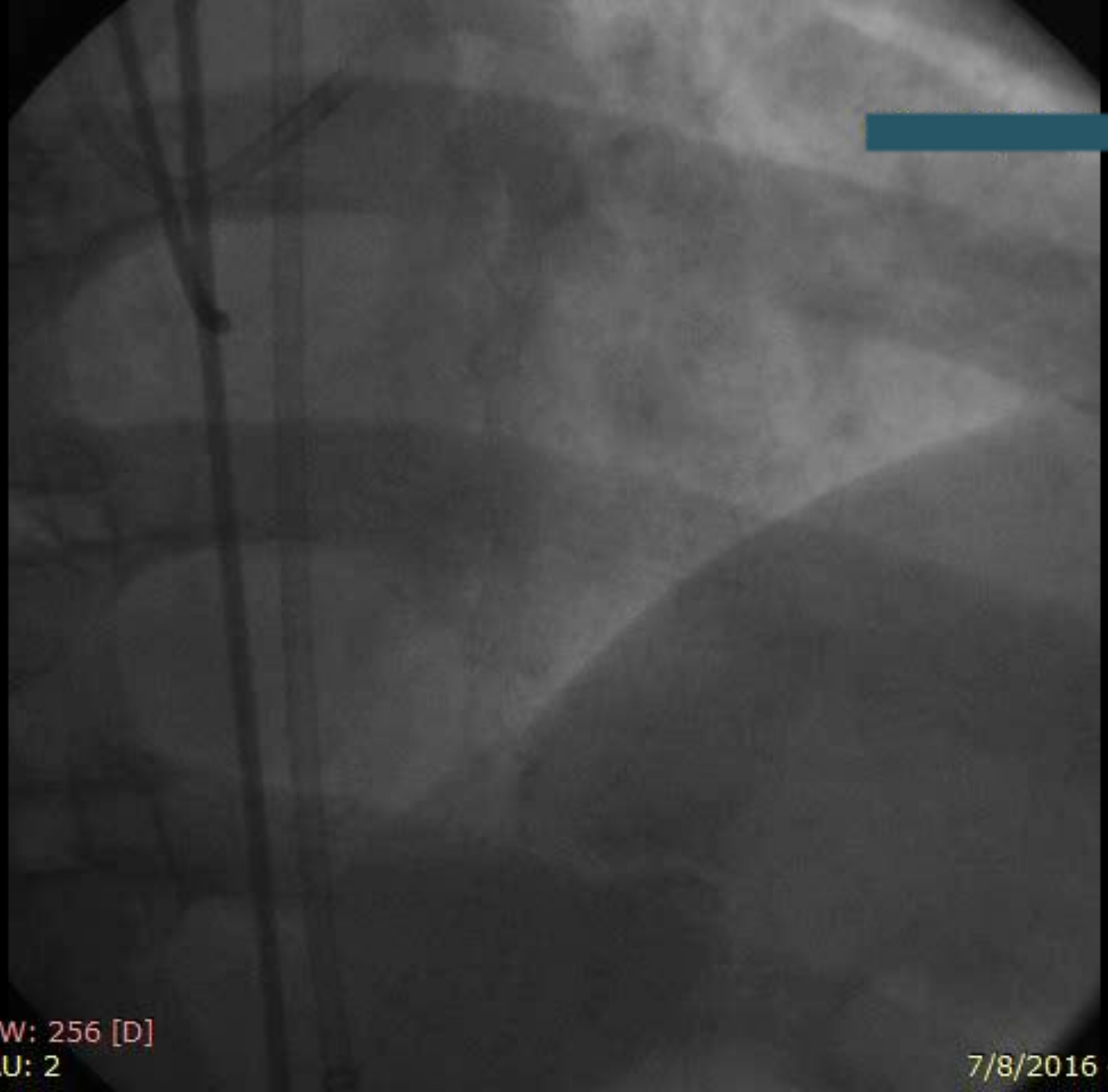
- **ASA 81 mg daily**
- **Norvasc 5 mg daily**
- **Bisoprolol 5 mg daily**
- **Imdur 60 daily**
- **Lipitor 40 mg daily**

Case

- Non invasive tests:
 - Stress Test SPECT MPI:
 - Clinically Positive. Electrically Negative. 8.4 METS
 - Positive moderate ischemia involving moderate area of LAD territory
 - EF 55%

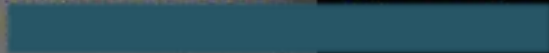
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Se: 1

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Im: 1/94
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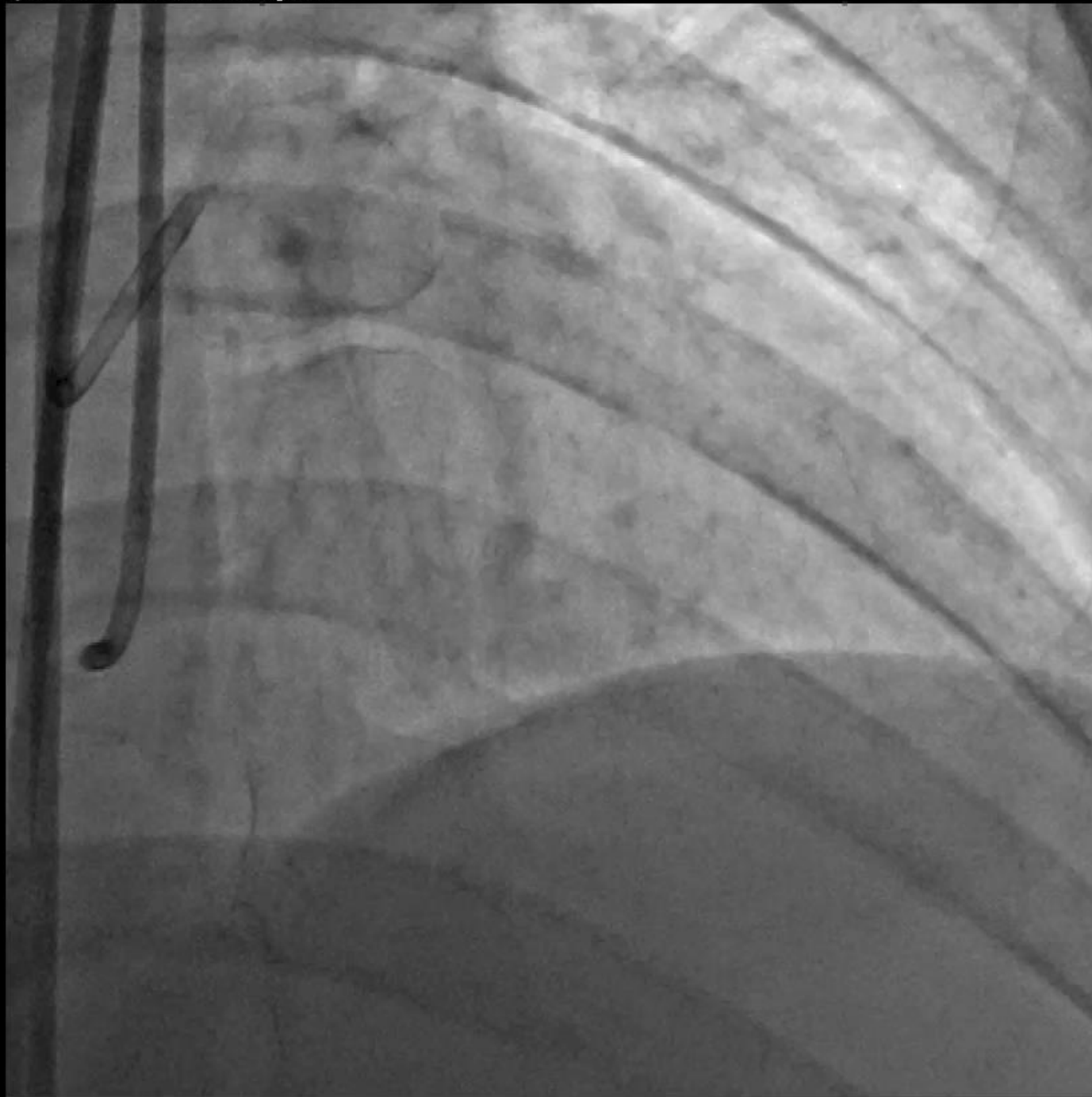


Case 2

Lossy Compression - not intended for diagnosis



Lossy Compression - not intended for diagnosis



THE LANCET



JACC

LOGY



The NEW ENGLAND
JOURNAL of MEDICINE



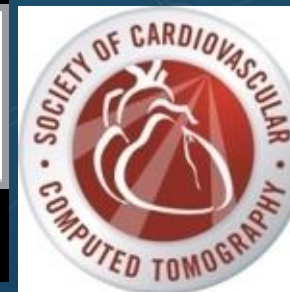
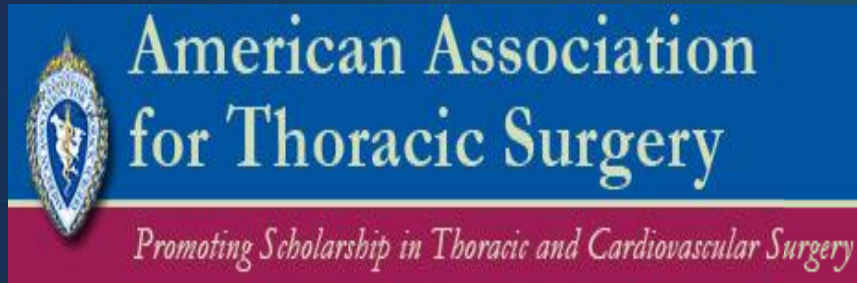
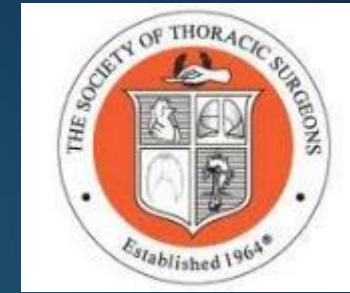
JACC
cardiovascular

Interventions

Circulation

An American Heart Association Journal

Appropriate Use Criteria for Coronary Revascularization



The Press Have Had a Field Day...



THE WALL STREET JOURNAL. Digital Network

WSJ MARKETWATCH BARRON'S

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Heart Treatment Overused

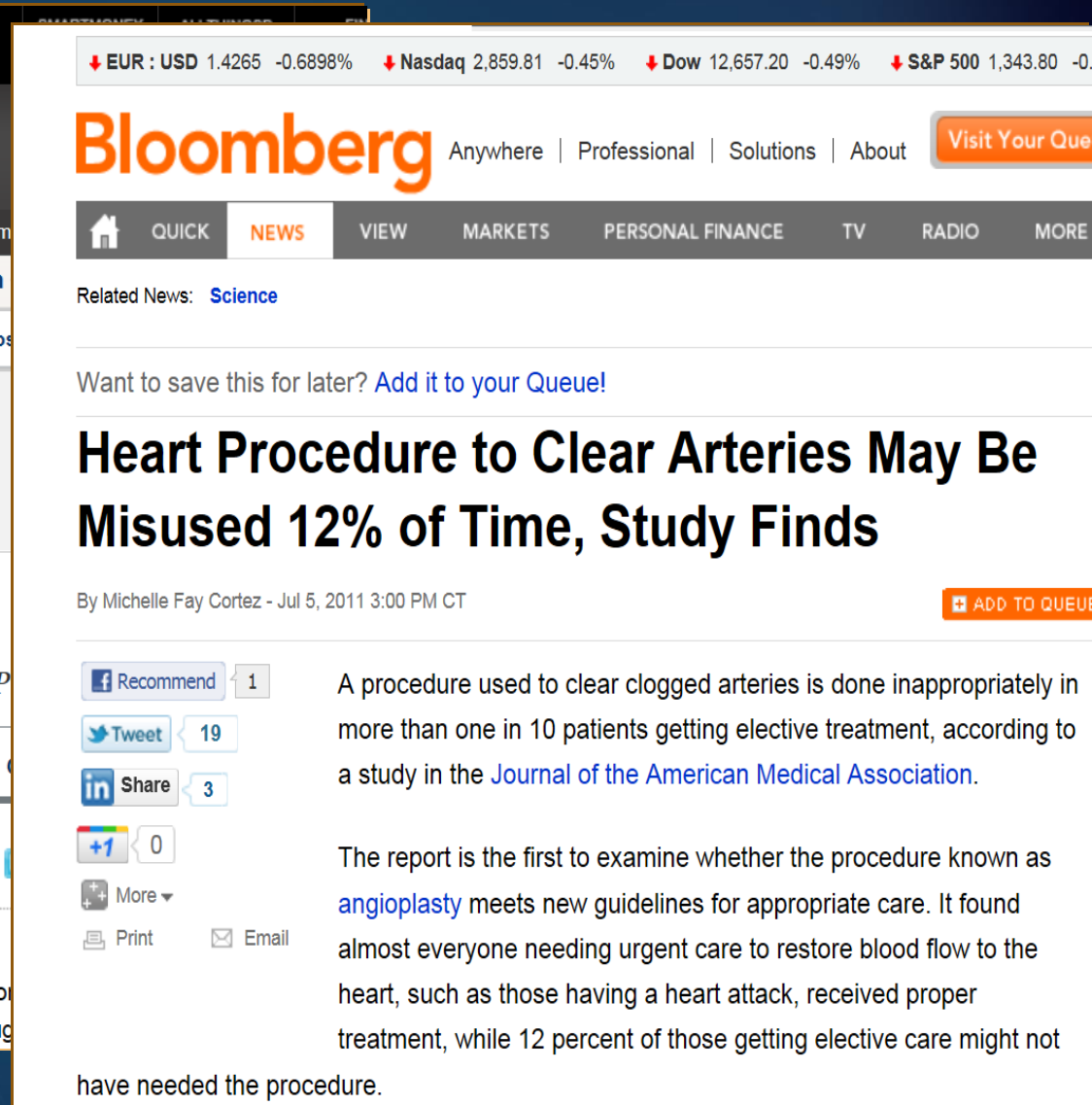
Study Finds Doctors Often Too Quick to Try Costly P

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By RON WINSLOW And JOHN CARREYROU

Outside of heart attacks, doctors are often too quick to use a co patients suffering from coronary artery disease, a new study sug



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Bloomberg

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Heart Procedure to Clear Arteries May Be Misused 12% of Time, Study Finds

By Michelle Fay Cortez - Jul 5, 2011 3:00 PM CT [ADD TO QUEUE](#)

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A procedure used to clear clogged arteries is done inappropriately in more than one in 10 patients getting elective treatment, according to a study in the [Journal of the American Medical Association](#).

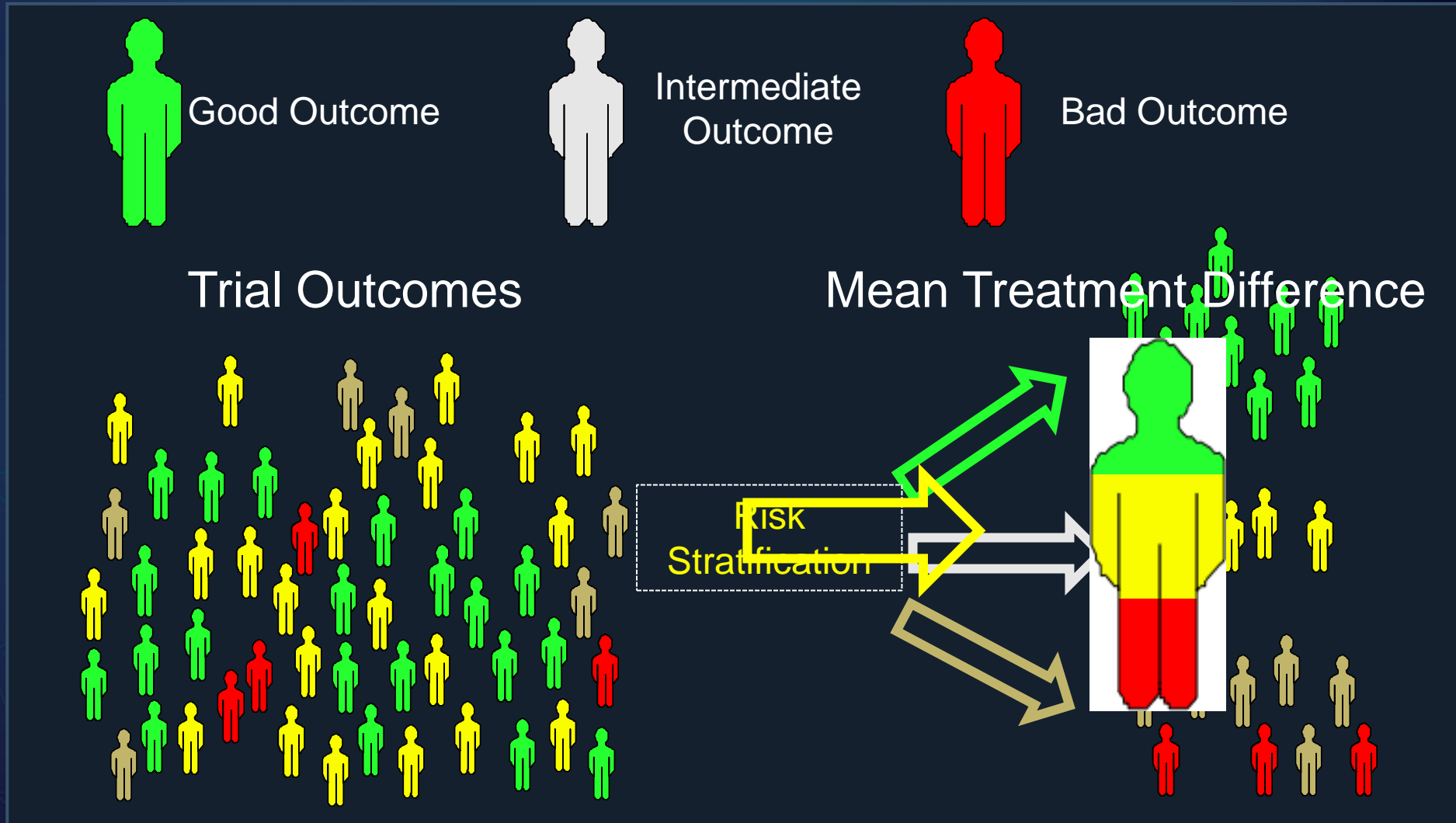
The report is the first to examine whether the procedure known as [angioplasty](#) meets new guidelines for appropriate care. It found almost everyone needing urgent care to restore blood flow to the heart, such as those having a heart attack, received proper treatment, while 12 percent of those getting elective care might not have needed the procedure.

Current Implementation of the AUC



*But what about Underuse?
Can it be Measured?*

Limitations of the Evidence Base (and guidelines based upon it)



So Why Do We Offer Revascularization

1. Improve Symptoms and Quality of Life

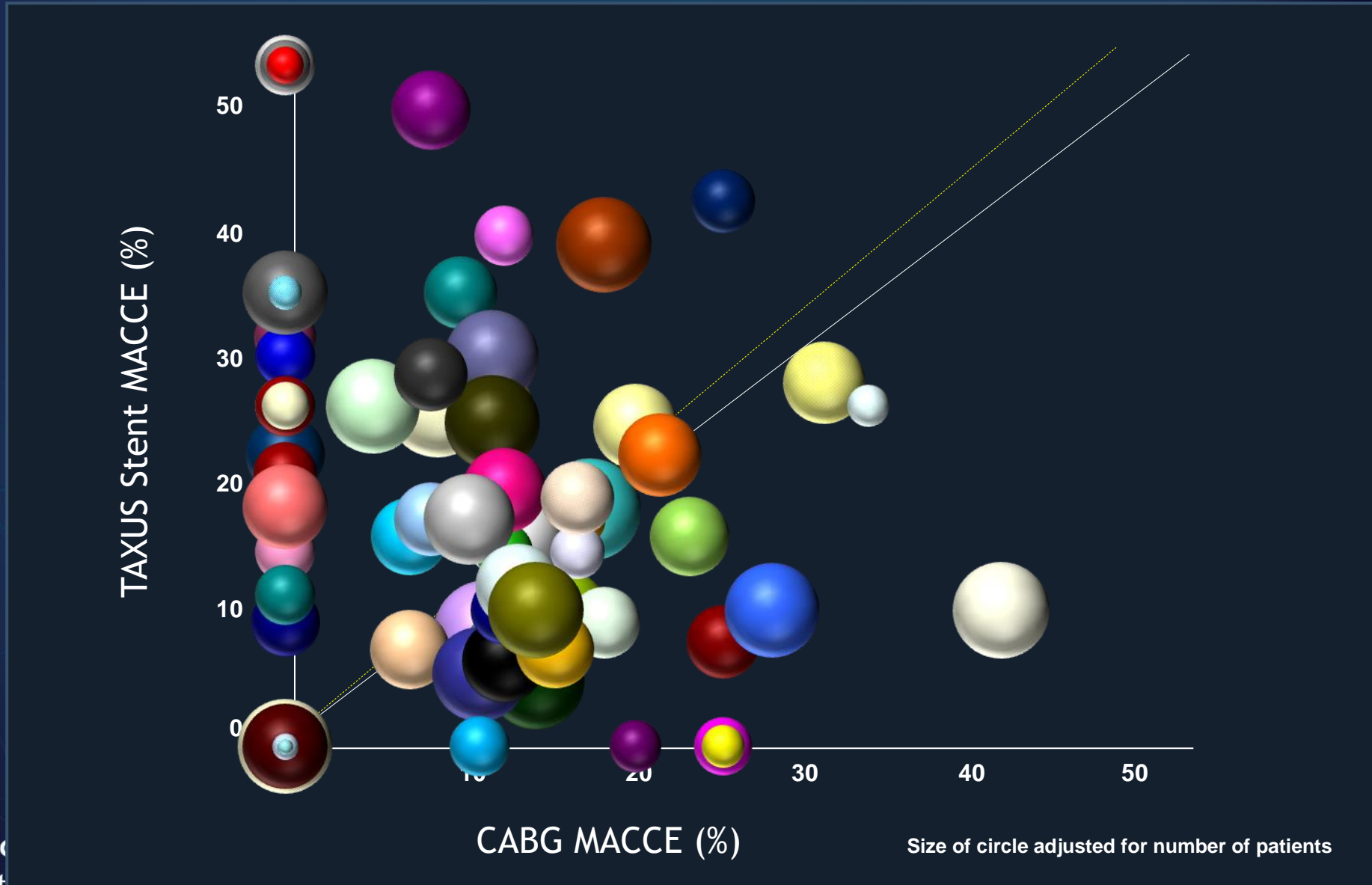
- Measured by “soft endpoints” (i.e. angina/QOL scales)

2. Improve Prognosis?

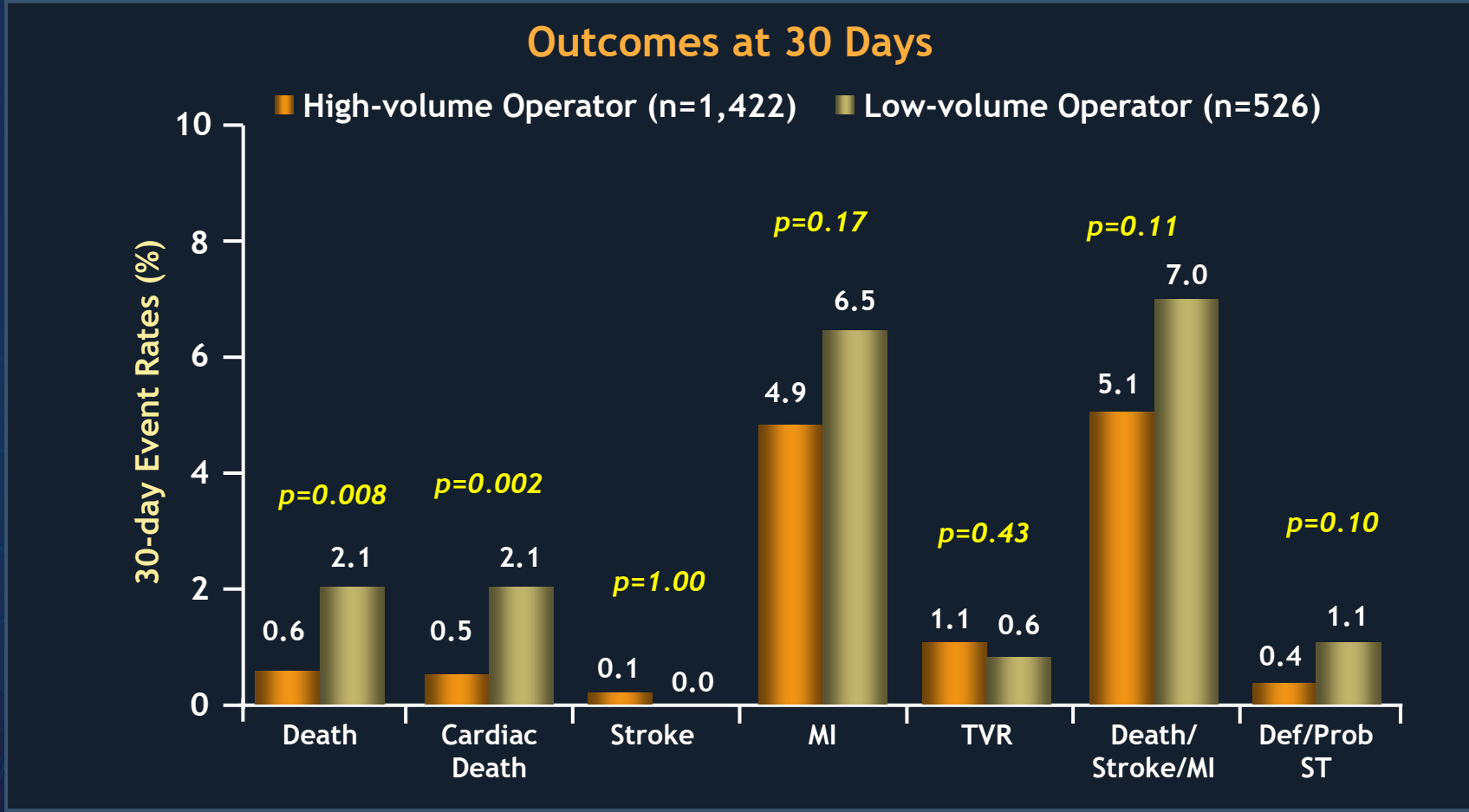
- Measured by “hard endpoints” (i.e. death, MI)

Are the Right Patients Being Treated?

Variability in Practice Can Sometimes be Good: The SYNTAX Trial



Operator Volume and Outcomes in LM PCI

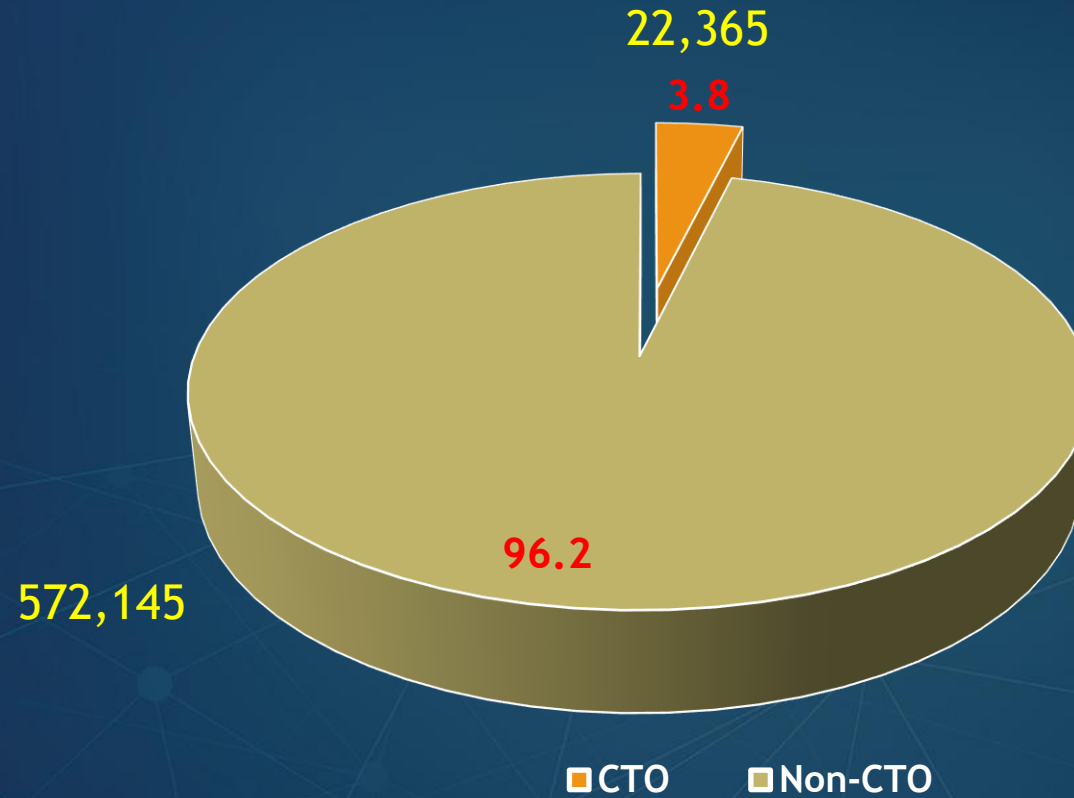




NCDR[®]

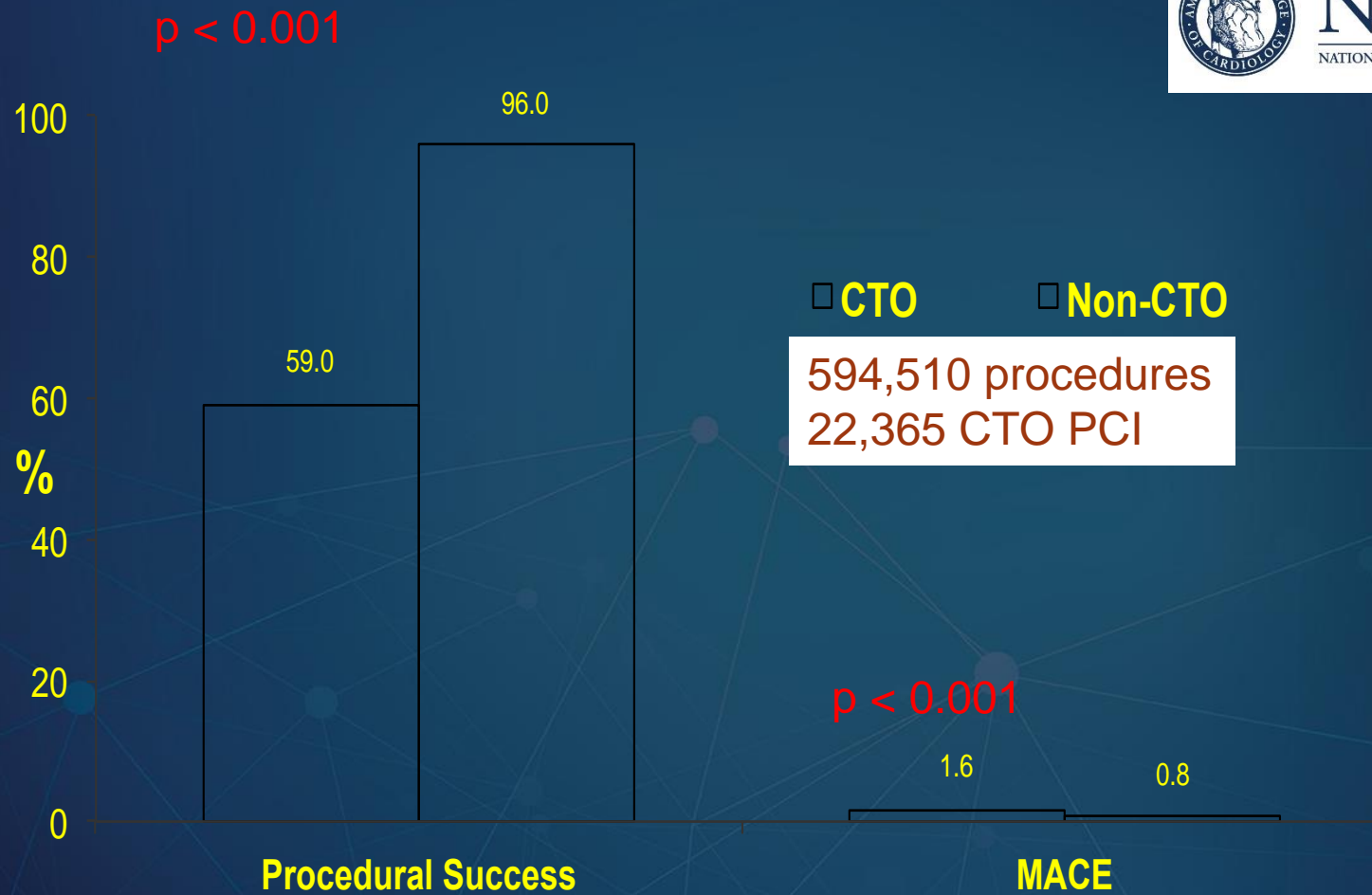
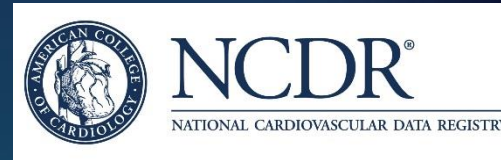
NATIONAL CARDIOVASCULAR DATA REGISTRY

594,510 procedures

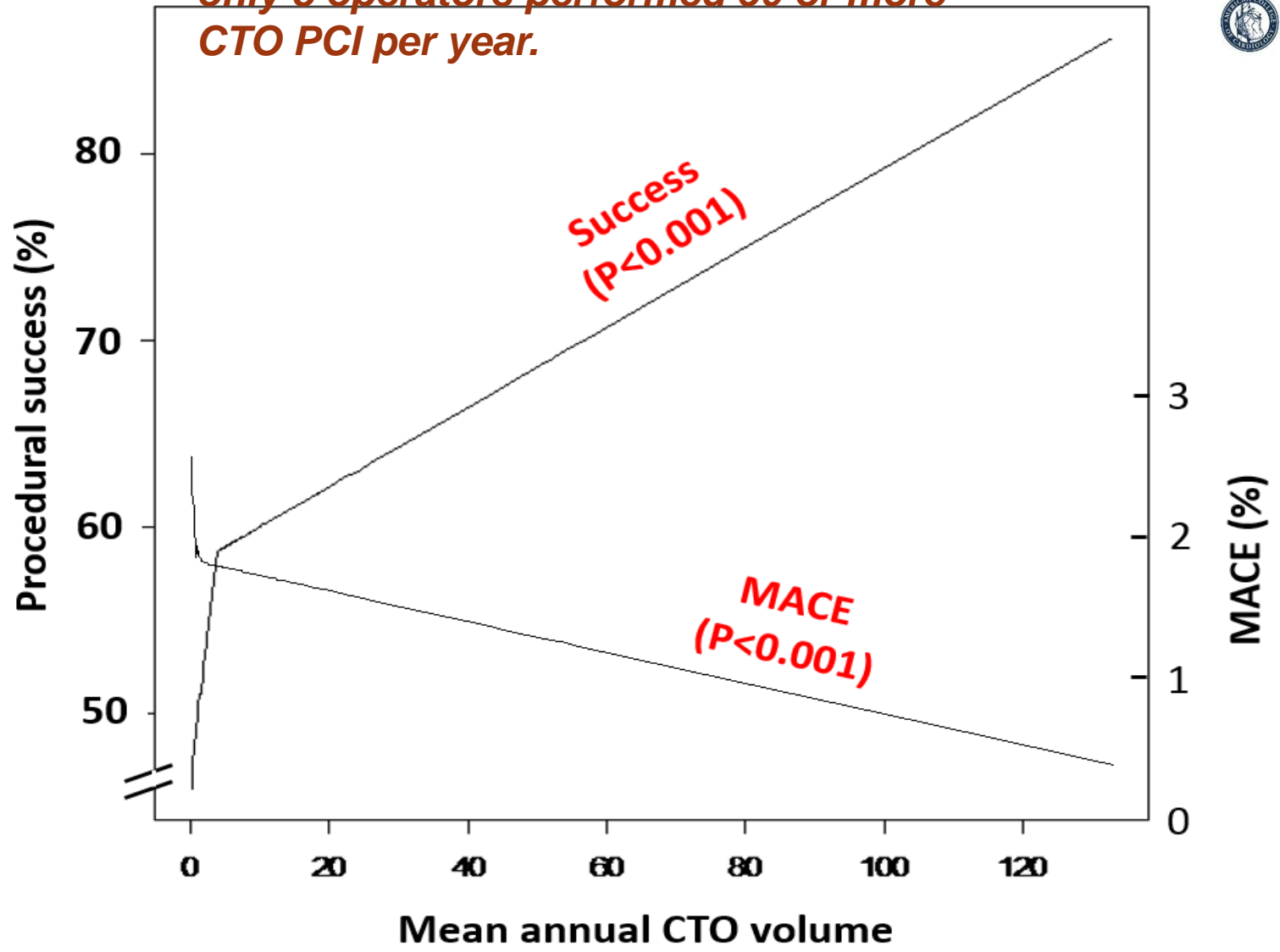


234 of 1,387 sites (17%) never performed CTO PCI
Operators % CTO PCI IQR: 0.3% to 4.9%

Procedural success and MACE

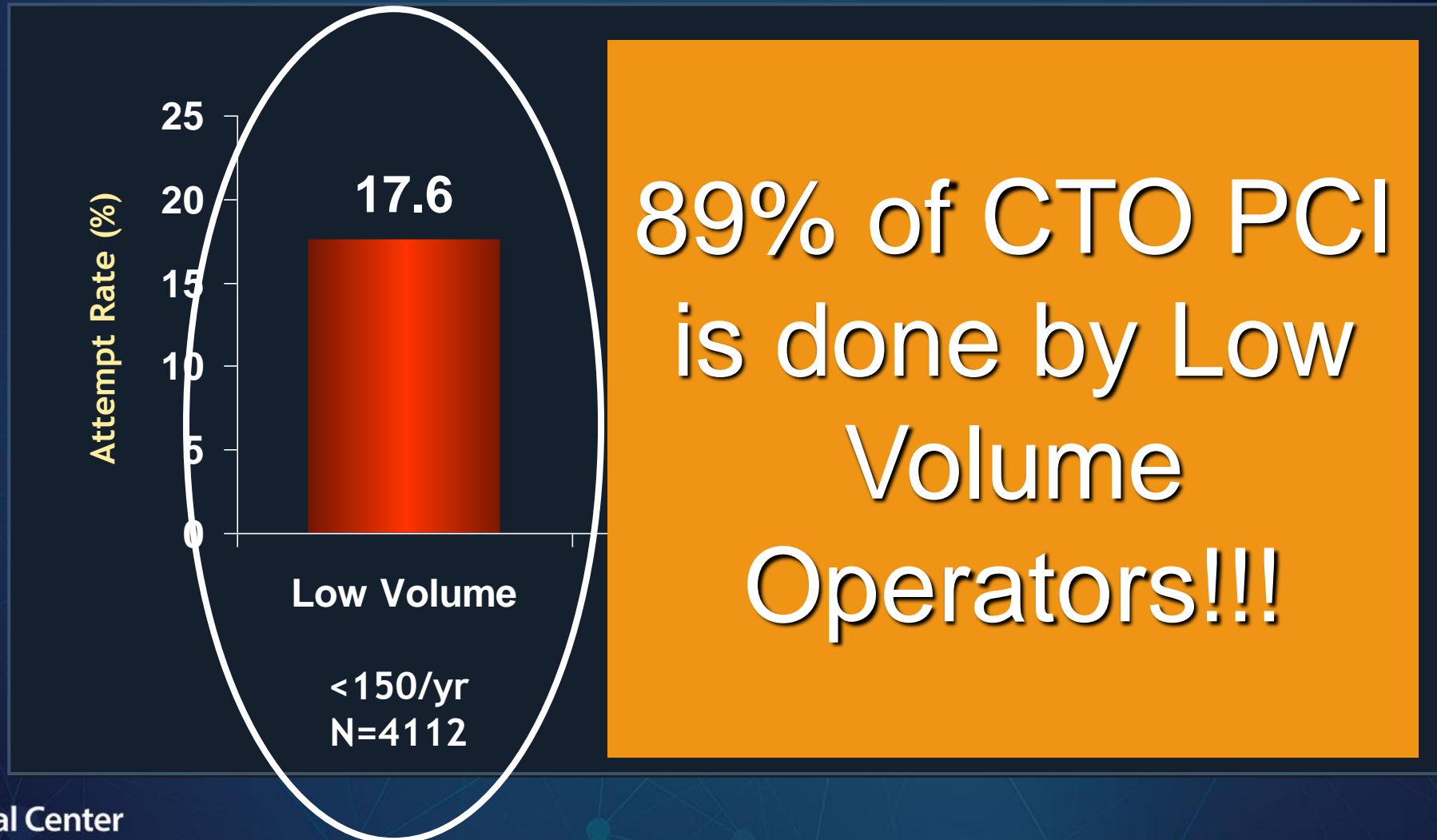


only 8 operators performed 50 or more CTO PCI per year.



Who Is Performing my CTO PCI?

ACC/NCDR Database: 45,826 CTO Patients



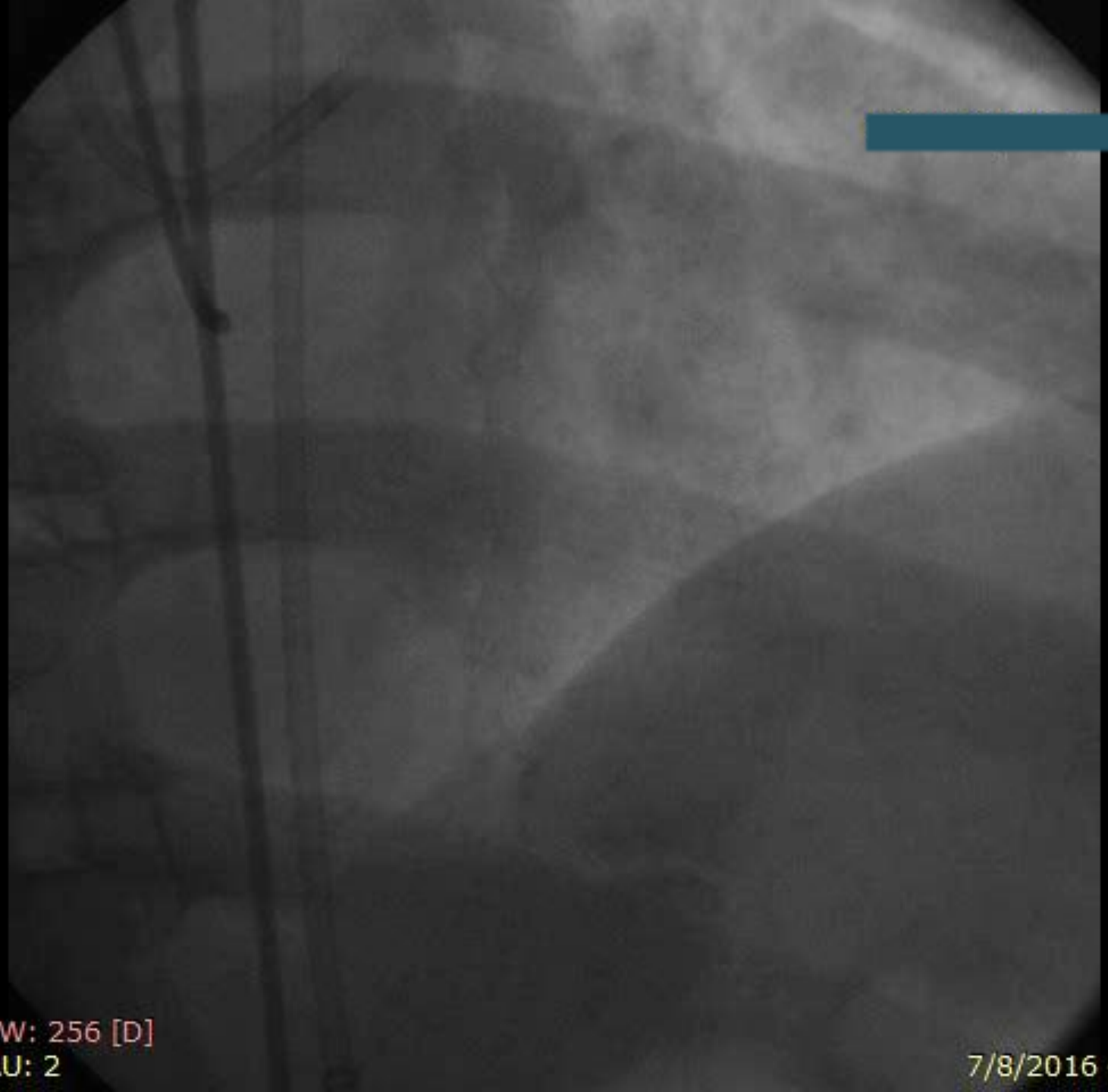
**89% of CTO PCI
is done by Low
Volume
Operators!!!**

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Im: 1/93
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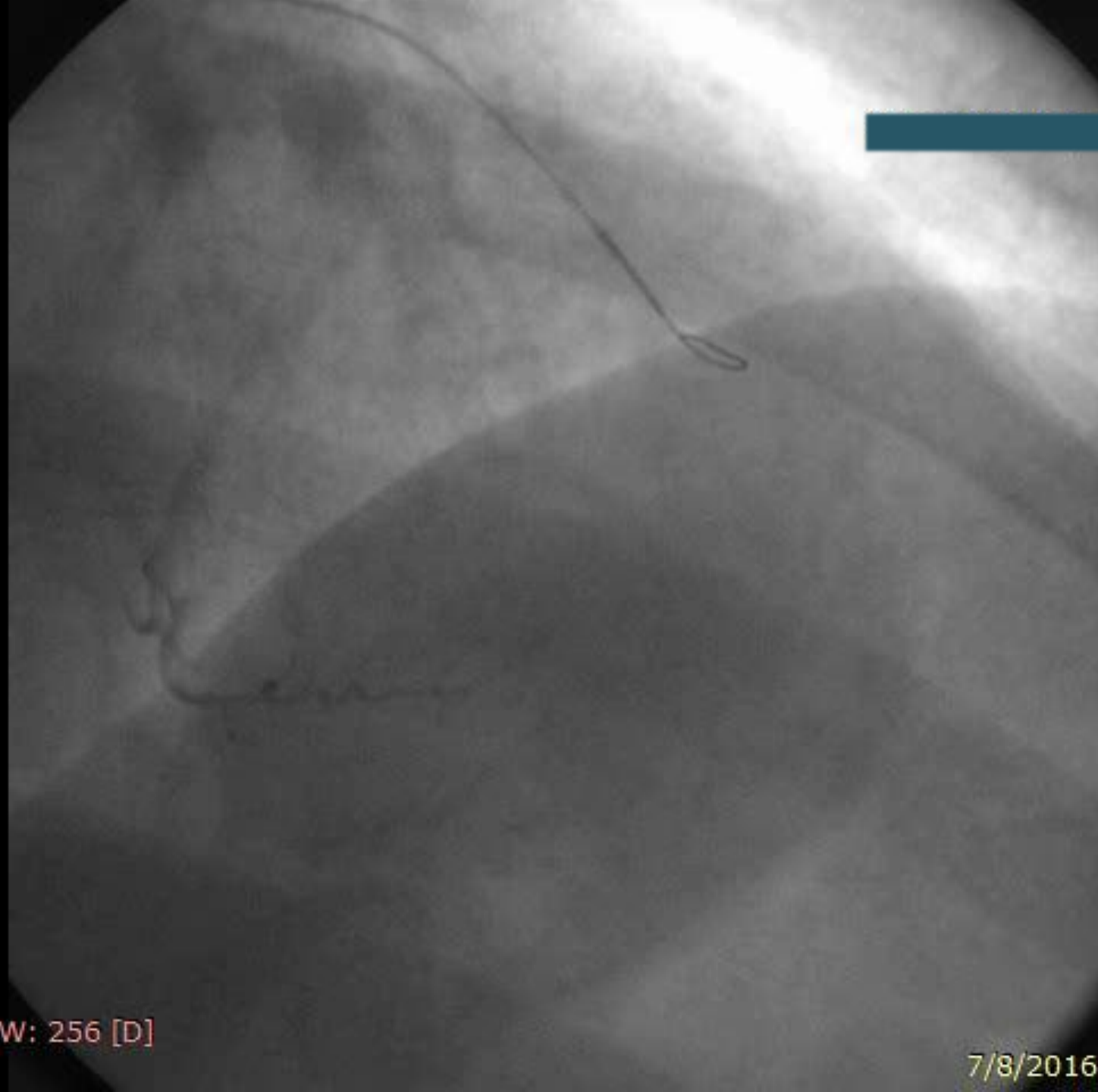
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4th strategy

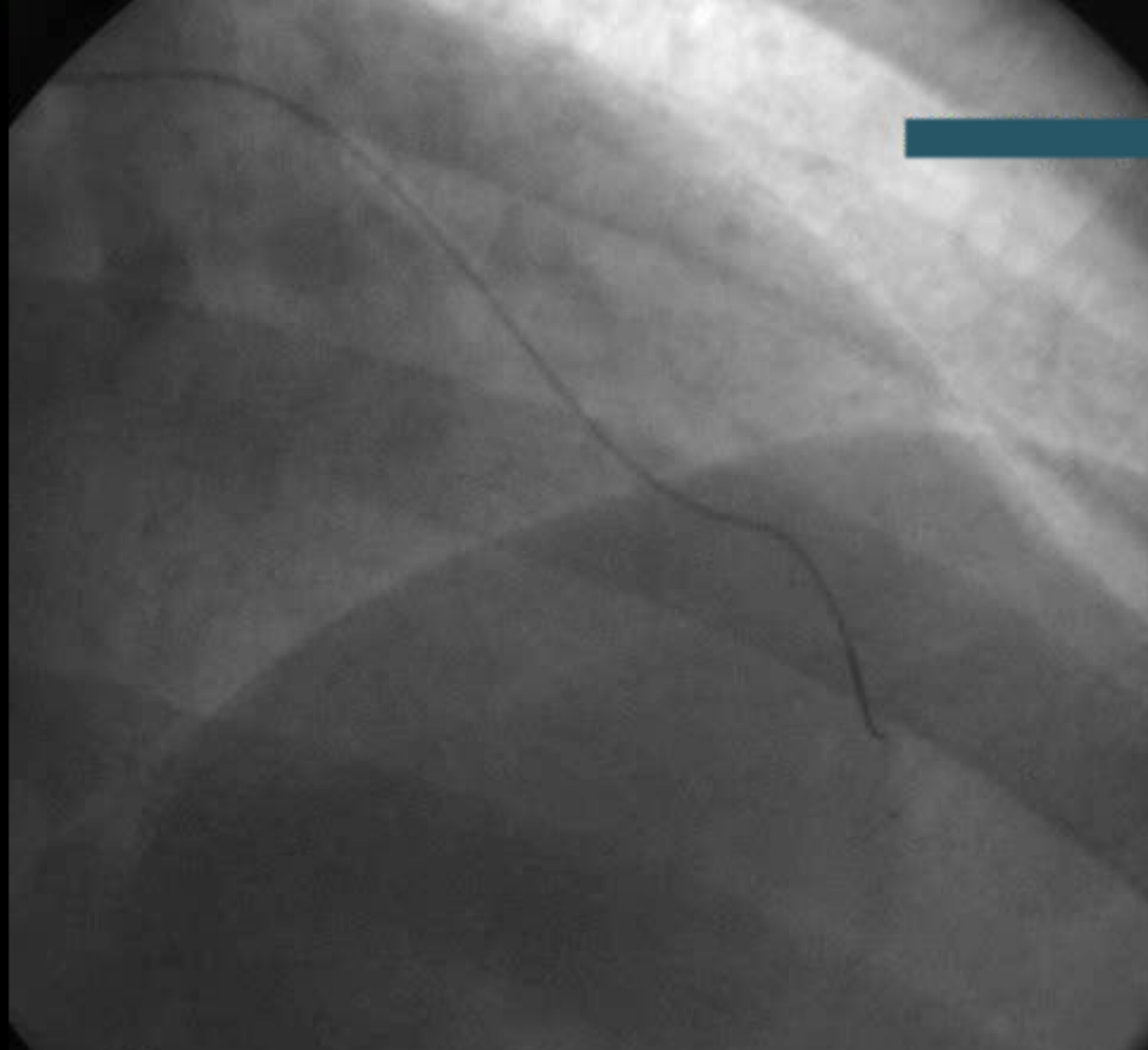
RETROGRADE VIA OM1 COLLATERALS

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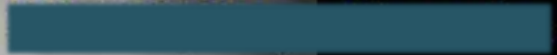
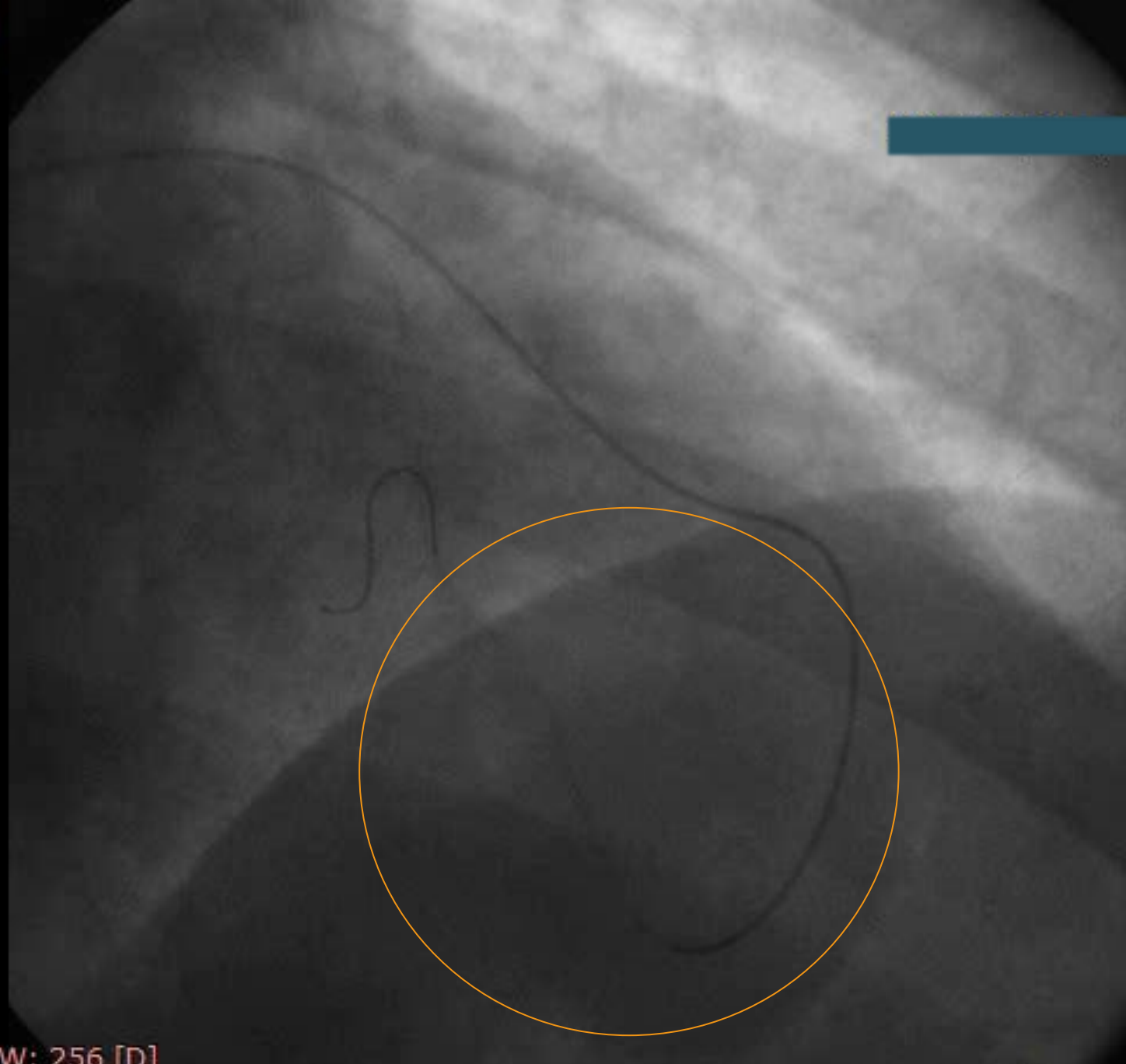
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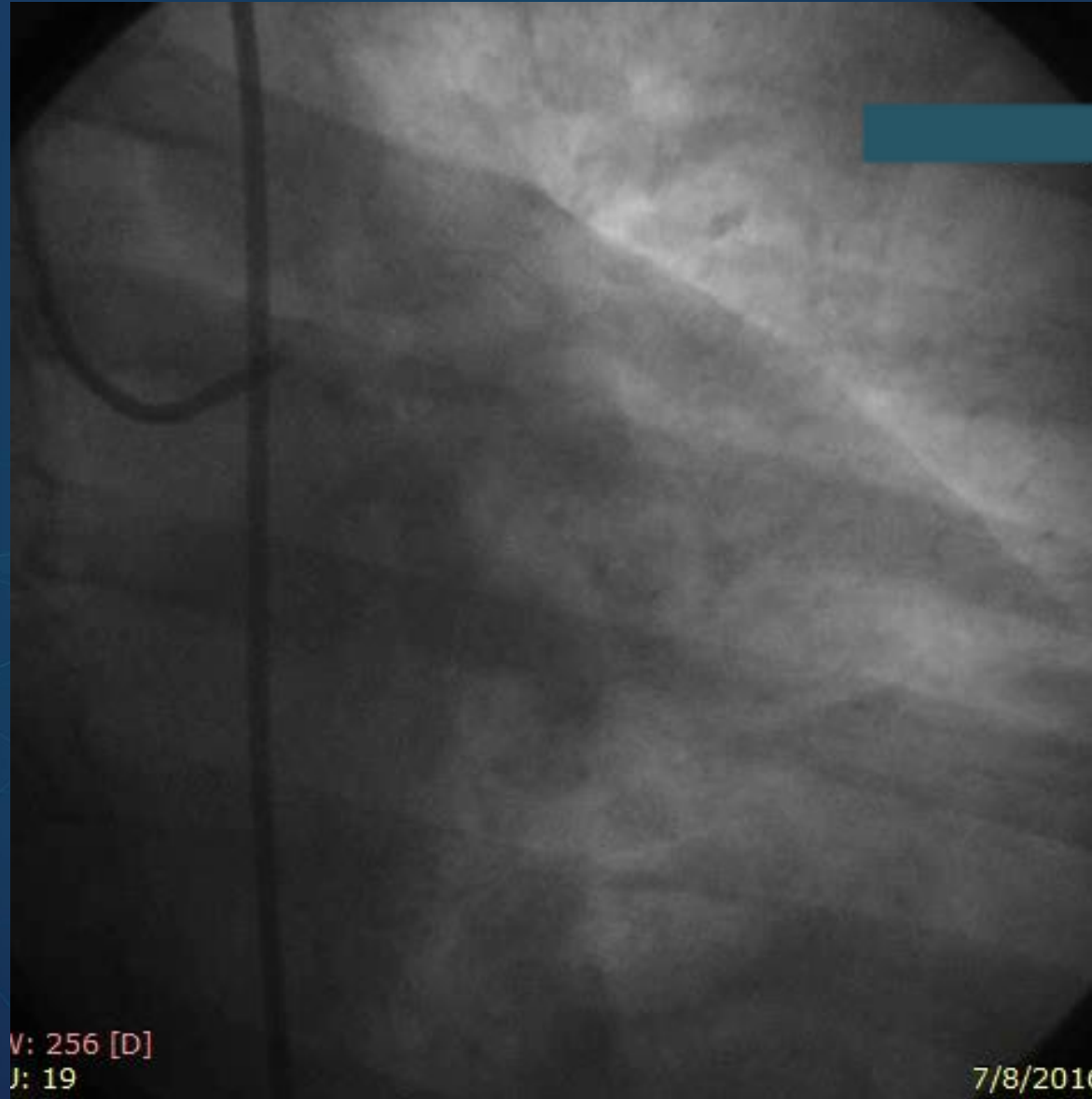
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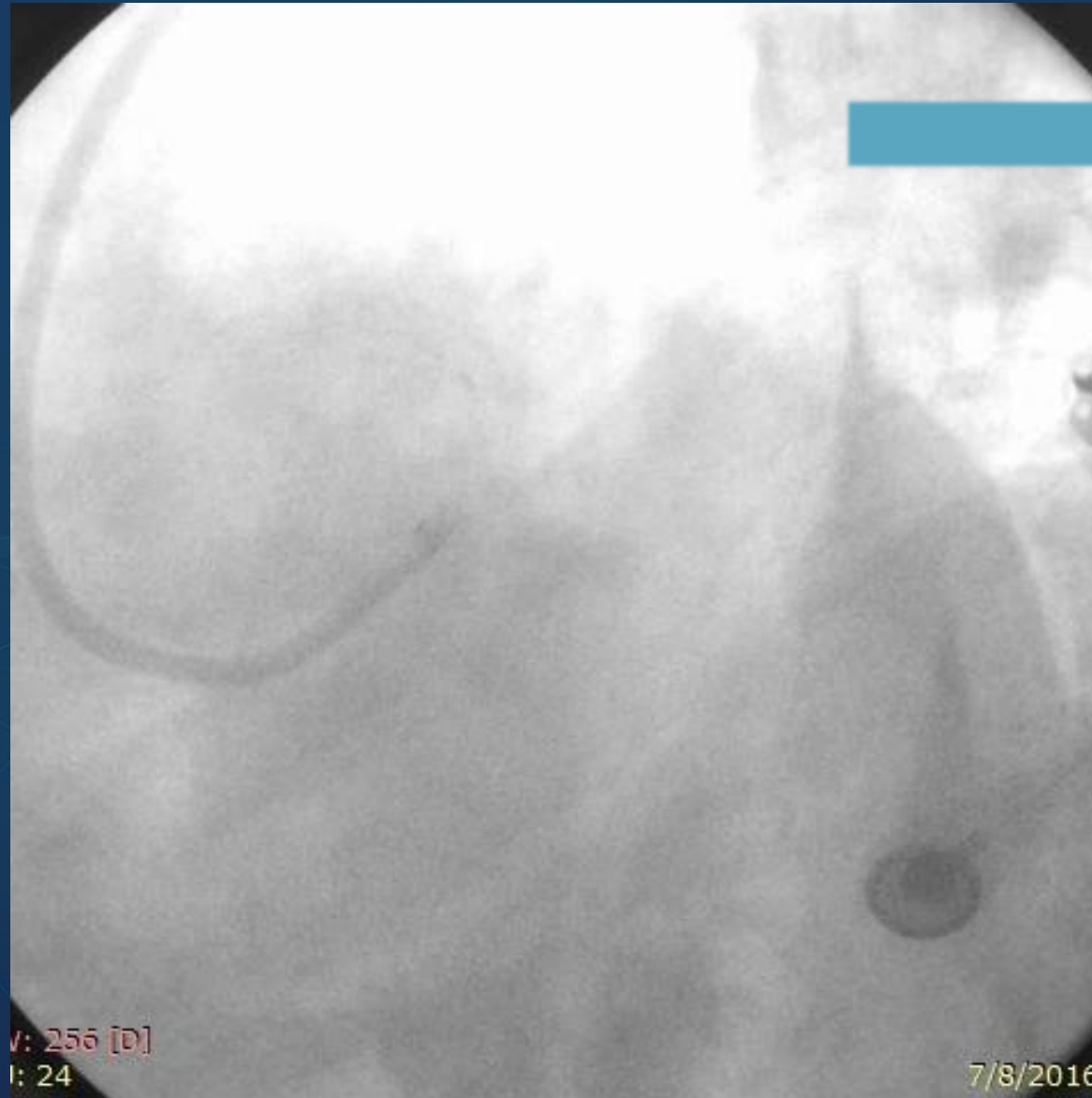
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Final Result post LAD PCI



Final Result post LAD PCI

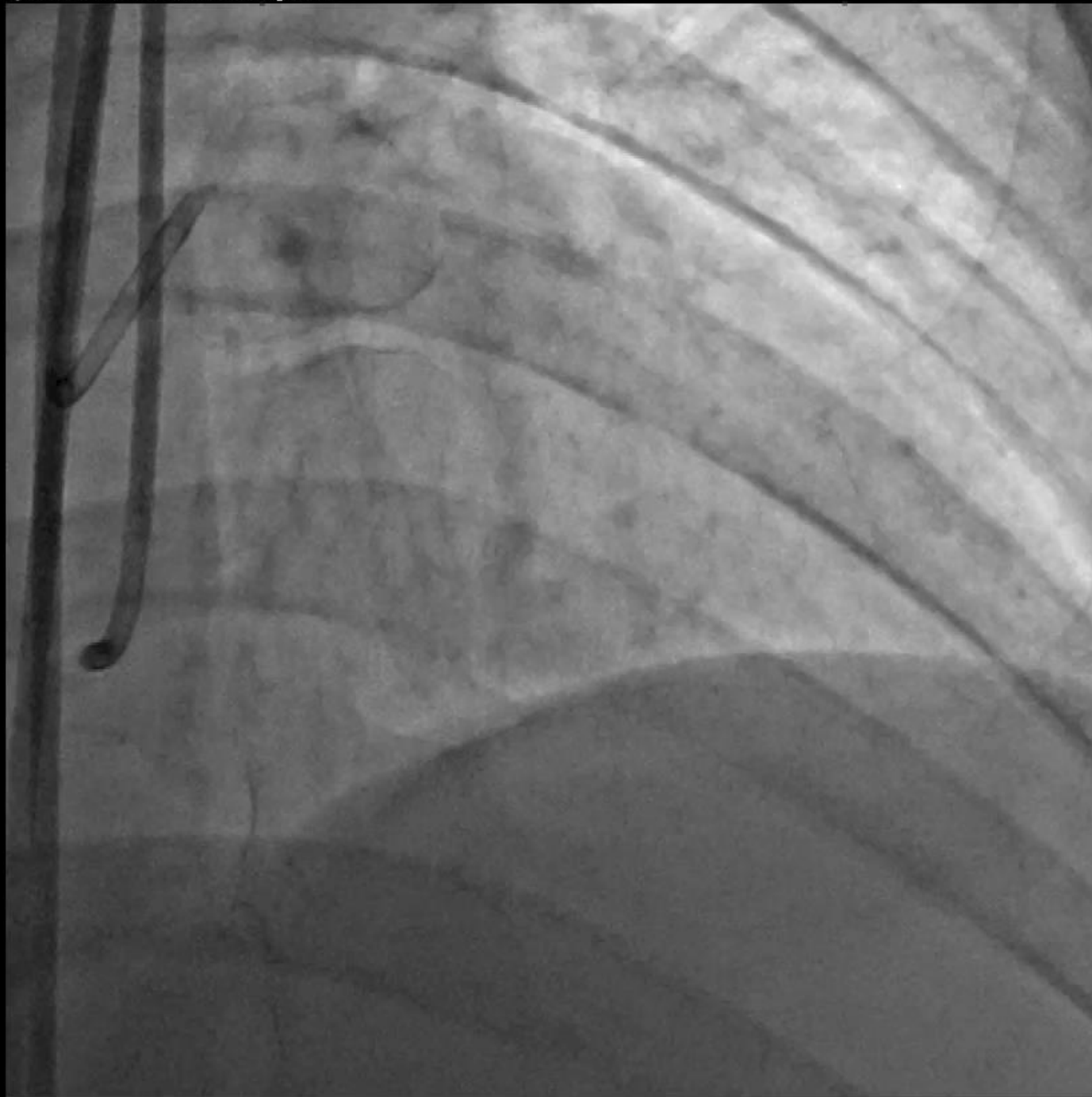


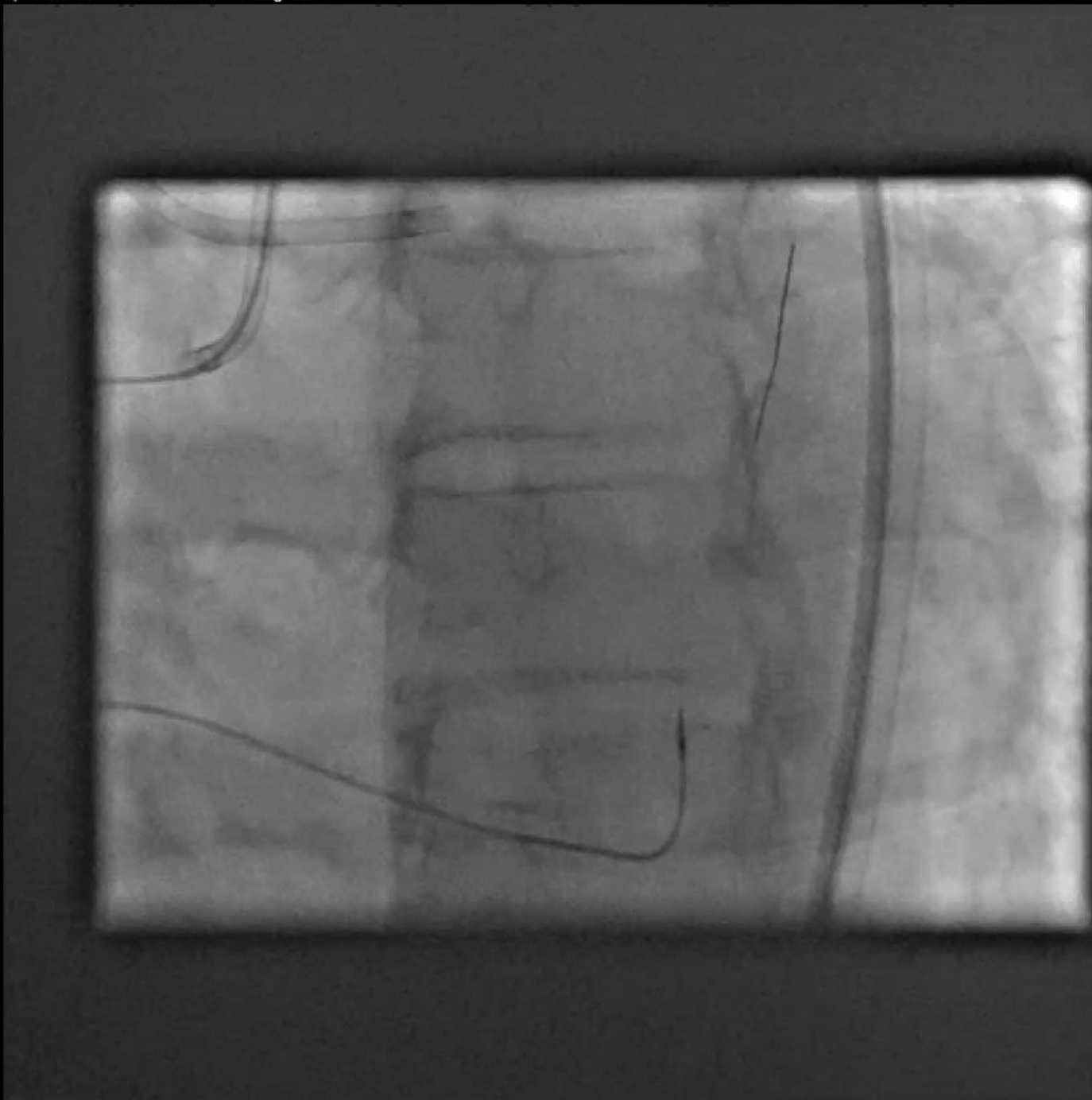
Case 2

Lossy Compression - not intended for diagnosis

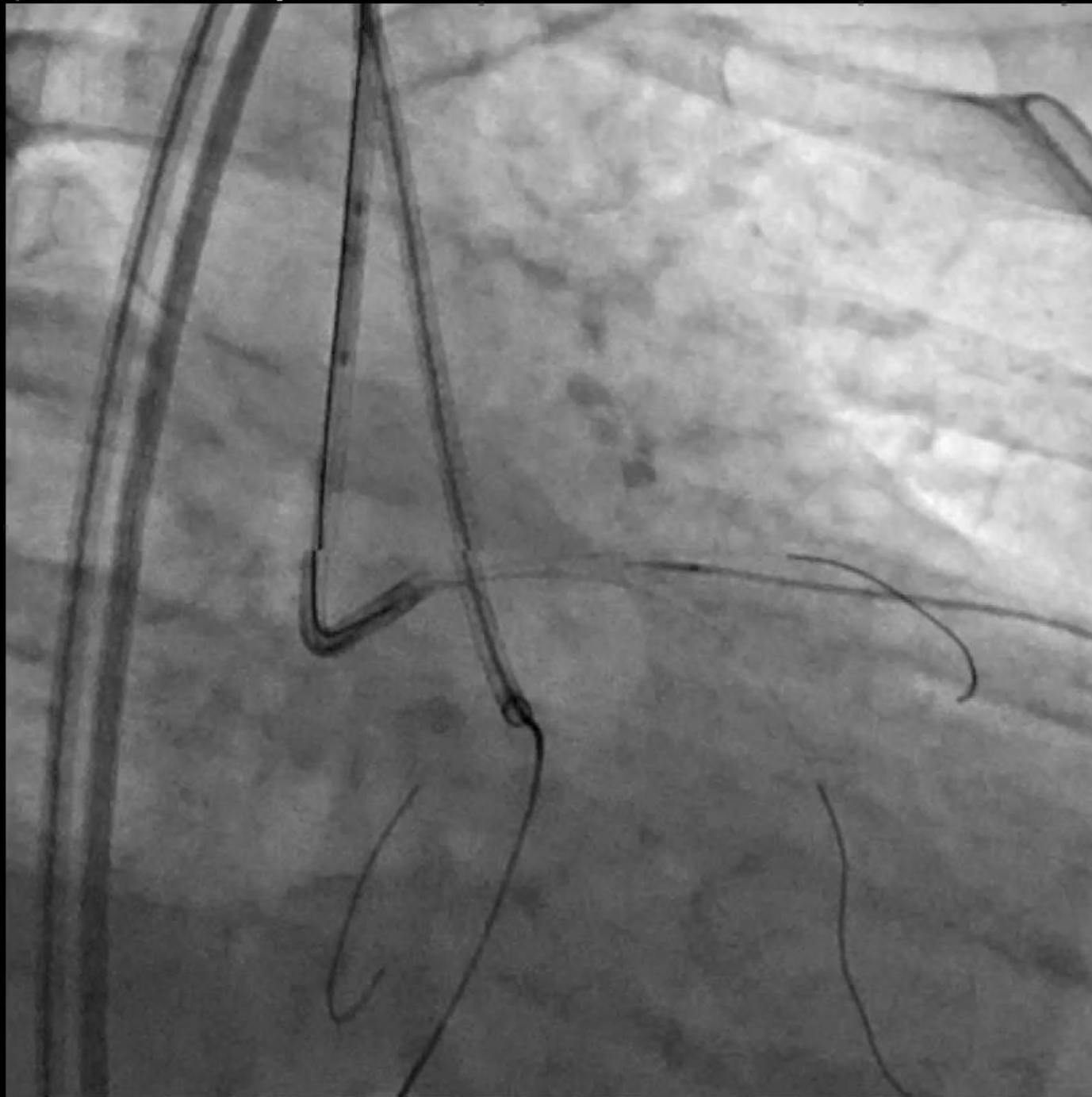


Lossy Compression - not intended for diagnosis

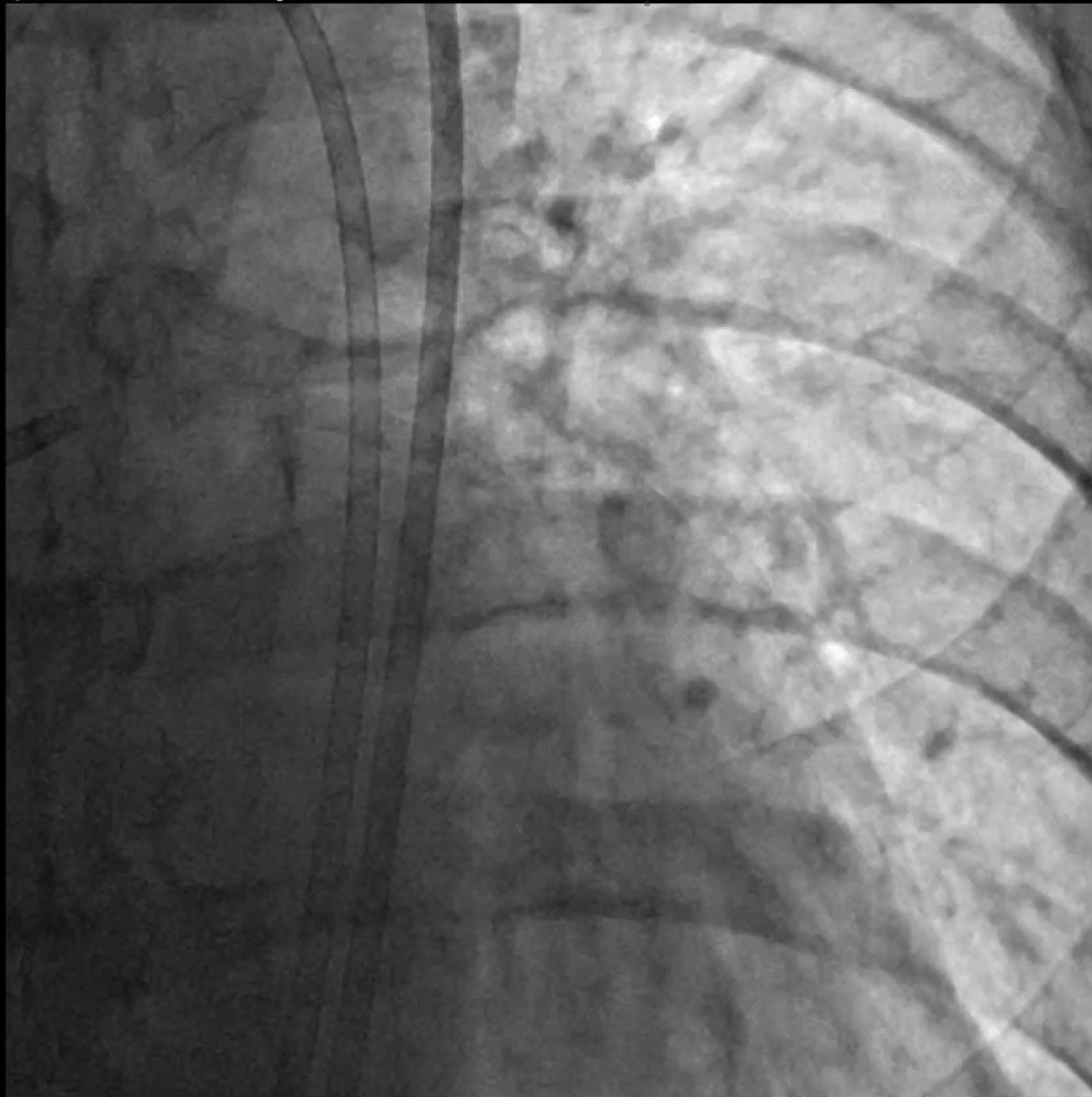




Lossy Compression - not intended for diagnosis



Lossy Compression - not intended for diagnosis



“An Unnecessary Procedure?”* “It wasn’t *their* LAD!”*



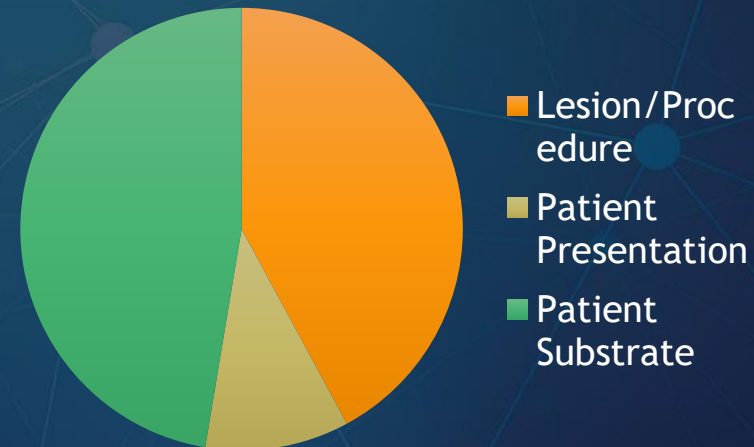
- “This is really American medicine at its worst”
- Steven Nissen
- “He is the poster child for the inappropriate use of stenting”
- David Brown

Taking a step back may sometimes be the best treatment

- Increasing number of high risk patients whose risk is not modifiable by our treatment.
- In such patients, optimal revascularization may NOT be complete revascularization.



Contributors of Risk



How Do Our Patients *with Real Symptoms* Actually Feel After Revascularization?

I thank you for all your help. It is a great feeling to be angina free.

Your grateful patient,