

Kalsifik koronar lezyonlarda yaşanan komplikasiyalar

Dr. Məhərrəm Nəsifov
LİV BONADEA Xəstaxanası



Standards and Guidelines

SCAI Expert Consensus Statement on the Management of Calcified Coronary Lesions



Robert F. Riley, MD, FSCAI^a, Mitul P. Patel, MD, FSCAI^b, J. Dawn Abbott, MD, FSCAI^c,
Sripal Bangalore, MD, FSCAI^d, Emanouil S. Brilakis, MD, PhD, FSCAI^e, Kevin J. Croce, MD, PhD, FSCAI^f,
Darshan Doshi, MD, MS^g, Prashant Kaul, MD, FSCAI^h, Kathleen E. Kearney, MD, FSCAIⁱ,
Jimmy L. Kerrigan, MD, FSCAI^j, Margaret McEntegart, MD, PhD^k, Akiko Maehara, MD, FSCAI^{k,l},
Jennifer A. Rymer, MD, FSCAI^m, Nadia R. Sutton, MD, FSCAI^{n,o}, Binita Shah, MD, MS, FSCAI^{d,p,*}

^a Overlake Medical Center, Bellevue, Washington; ^b VA San Diego Healthcare System, San Diego, California; ^c Lifespan Cardiovascular Institute, Providence, Rhode Island; ^d NYU Grossman School of Medicine, New York, New York; ^e Minneapolis Heart Institute, Abbott Northwestern, Minneapolis, Minnesota; ^f Brigham and Women's Hospital, Boston, Massachusetts; ^g Massachusetts General Hospital, Boston, Massachusetts; ^h Piedmont Heart Institute, Atlanta, Georgia; ⁱ University of Washington, Seattle, Washington; ^j Ascension St. Thomas Heart, Nashville, Tennessee; ^k NewYork-Presbyterian Hospital/Columbia University Irving Medical Center, New York, New York; ^l Cardiovascular Research Foundation, New York, New York; ^m Duke University Medical Center, Durham, North Carolina; ⁿ Vanderbilt University Medical Center, Nashville, Tennessee; ^o Vanderbilt University, Nashville, Tennessee; ^p VA New York Harbor Healthcare System, New York, New York

Activate
Go to Setti

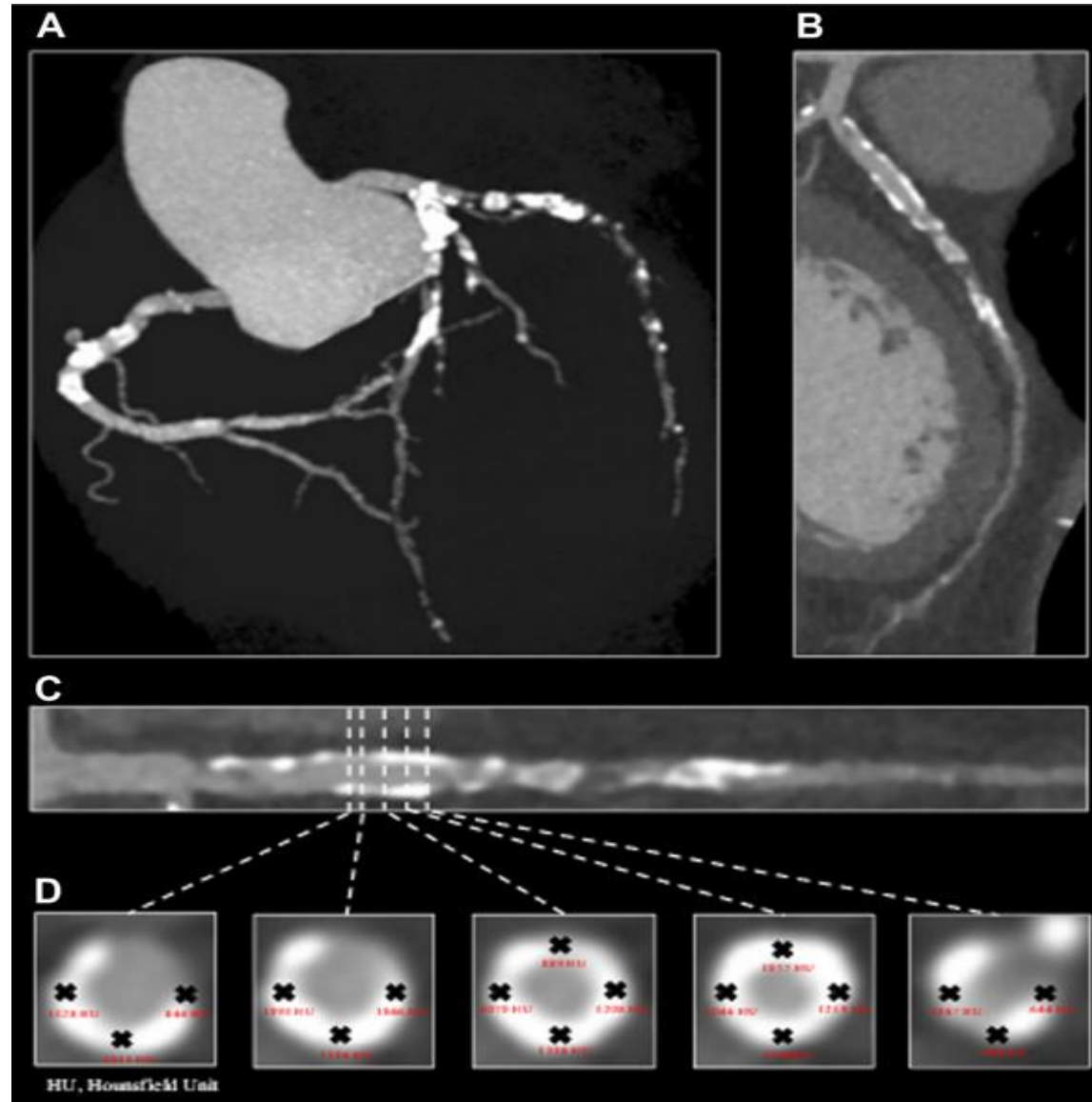
Səbəb

- Yaş (>75 . 90% kişi , 67% qadın)
- **Ailədə ürək-damar xəstəliyi**
- **Xroniki böyrək xəstəliyi**
- **Təzyiq xəstəliyi**
- **Diyabet**
- **Tütün istifadəsi**
- **Yüksək bədən kütlə indexi**
- **İnflamasiya**

Görüntüləmə

- **KT**
- **KAQ**
- **İVUS**
- **OCT** (qızıl standart)

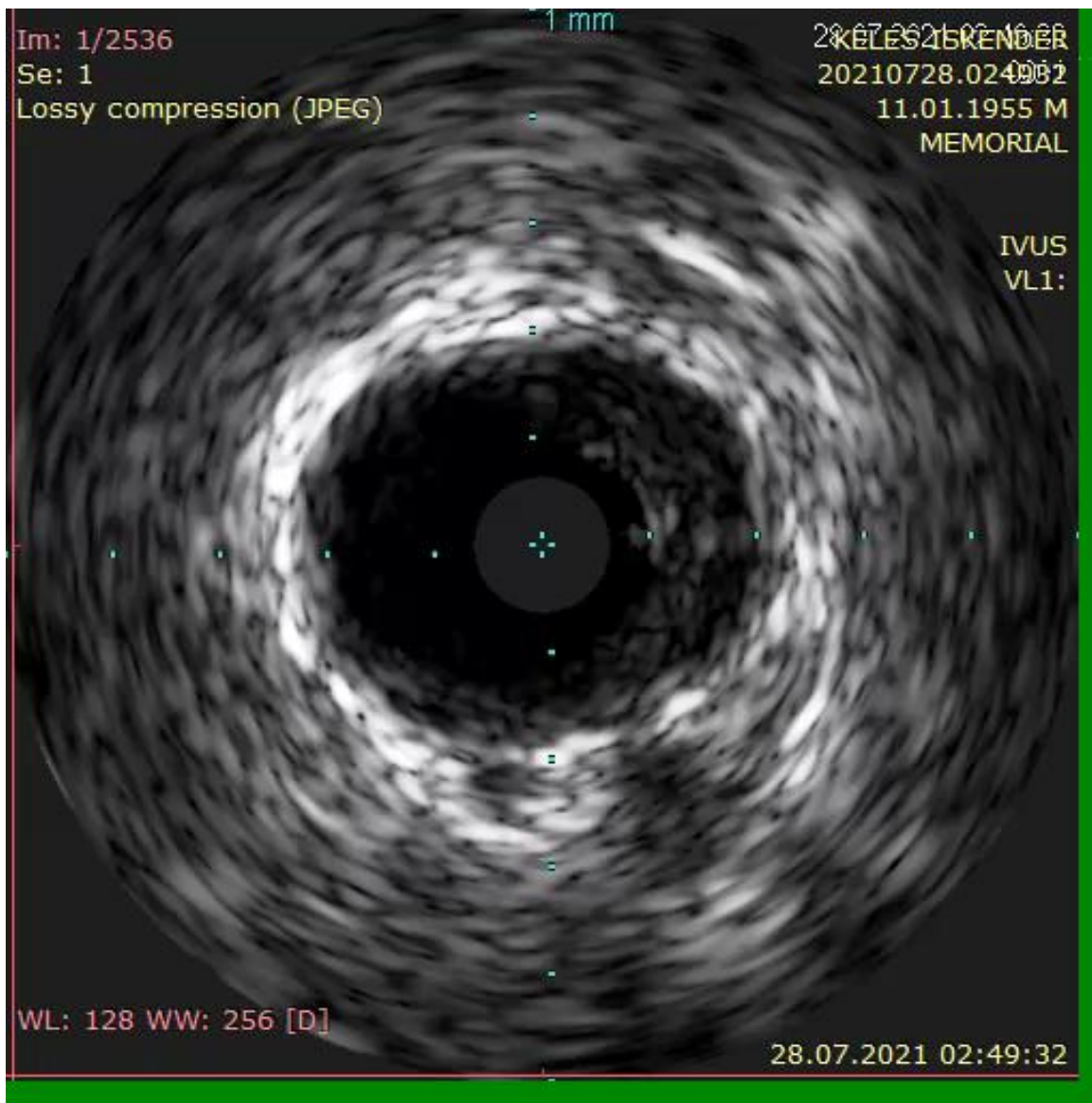
KT







IVUS



OCT

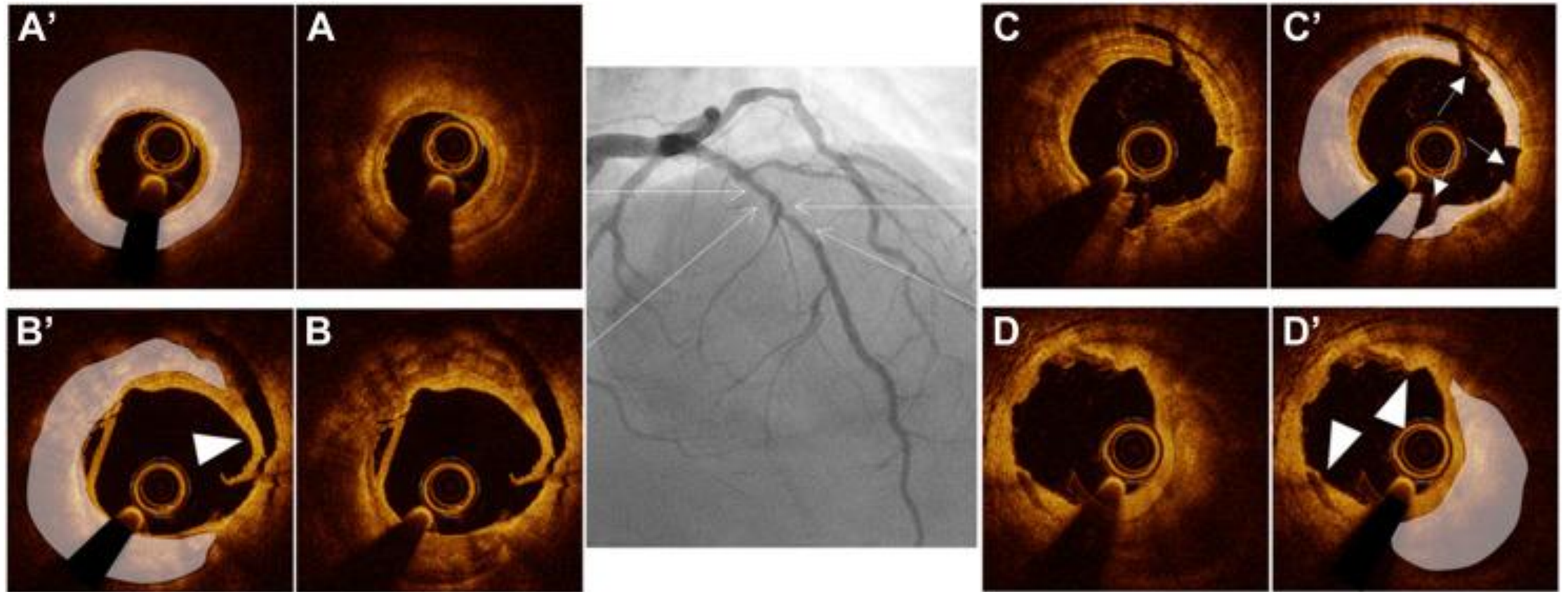


FIGURE 1 Comparison of Imaging Techniques for Coronary Calcium Detection, Characterization, and Quantification

Diagnostic Accuracy	Angiography	IVUS	OCT
Severe LHCC	● ● ●	● ● ●	● ● ●
Mild/Moderate LHCC	●	● ●	● ● ●
Deep calcium	●	● ● ●	● ●
Calcium arch	X	● ● ●	● ● ●
Calcium thickness	X	X	● ● ●
Longitudinal calcium length	X	●	● ● ●
Non-homogeneous plaque / Necrotic core	X	● ● ●	●

● ● ● Optimal ● ● Moderate ● Modest

Comparison of imaging techniques (angiography, intravascular ultrasound, and optical coherence tomography) for coronary calcium detection, characterization, and quantification. IVUS = intravascular ultrasound; LHCC = lesion with high calcium content; OCT = optical coherence tomography.

Morfologiyası

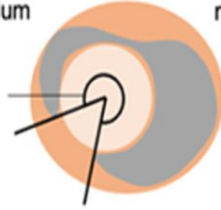
- **360° kalsiyum**
- **Kalsiyum $>270^\circ$ və kalsiyum uzunluğu ≥ 5.0 mm.**
- **Damar ölçüsü <3.5 mm olan damar içində kalsiyum varlığı**
- **Kalsifik nodul (CN) varlığı.**
- **Kalsiyum qalınlığı > 0.5 mm**

Angiographic Criteria

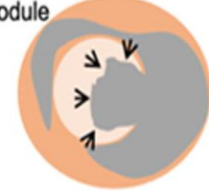
Fluoroscopic radiopacities noted without cardiac motion prior to contrast injection involving both sides of the arterial wall in ≥ 1 location and total length of calcium of ≥ 15 mm

Intravascular Imaging Criteria

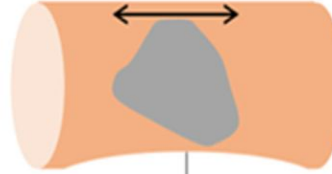
1: Maximum arc of calcium
360° calcium



2: Calcified nodule

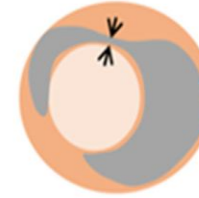


3: Calcium >270° in >5mm length



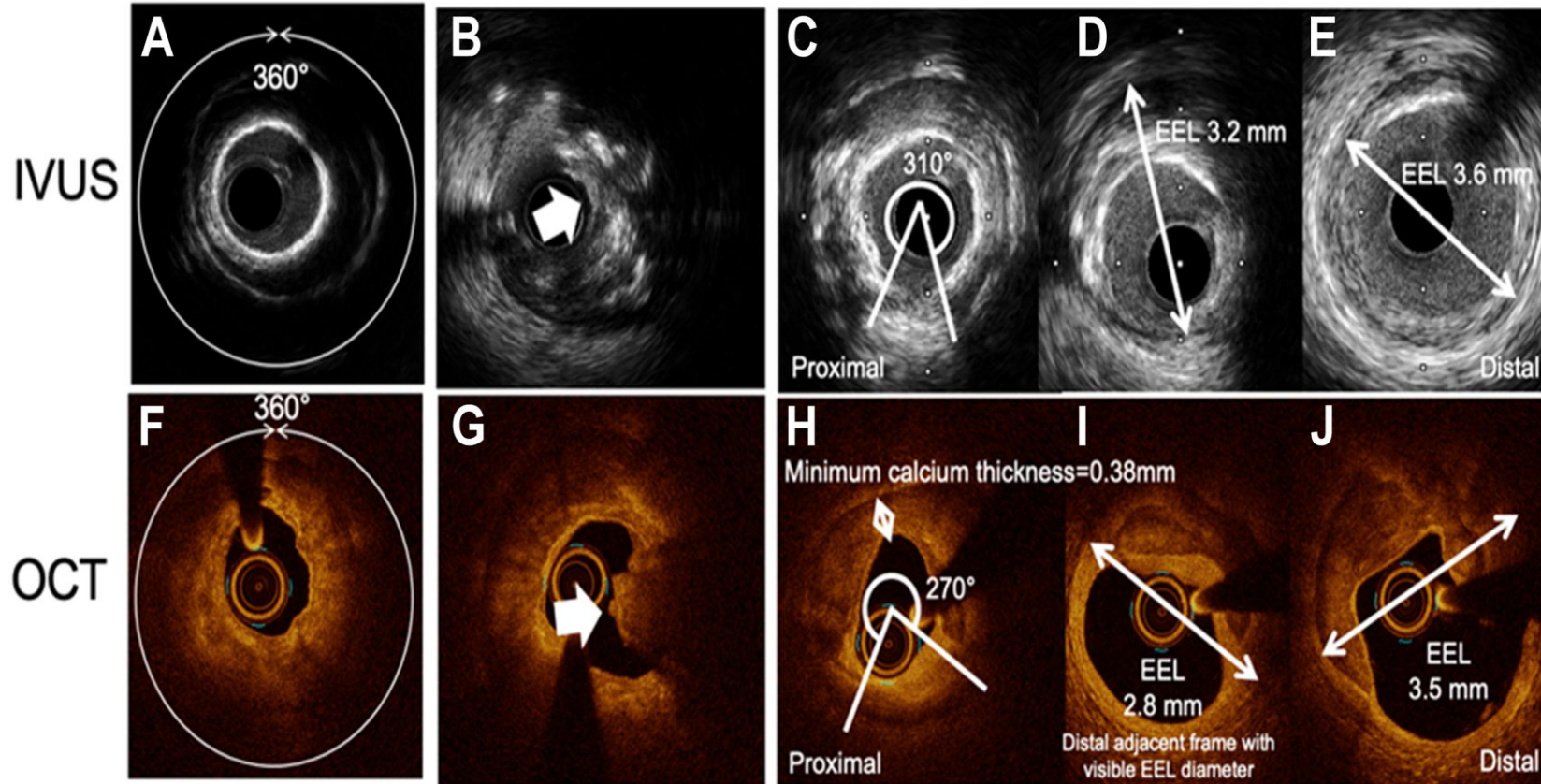
4: Vessel negative remodeling

5: Minimum calcium thickness (OCT)



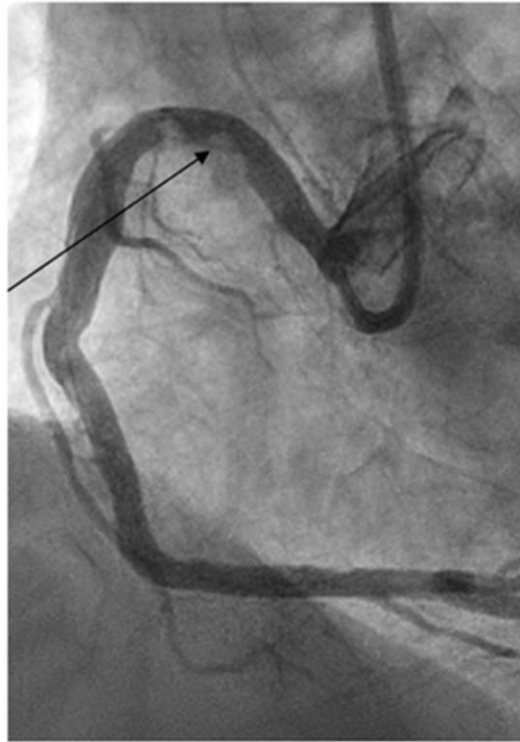
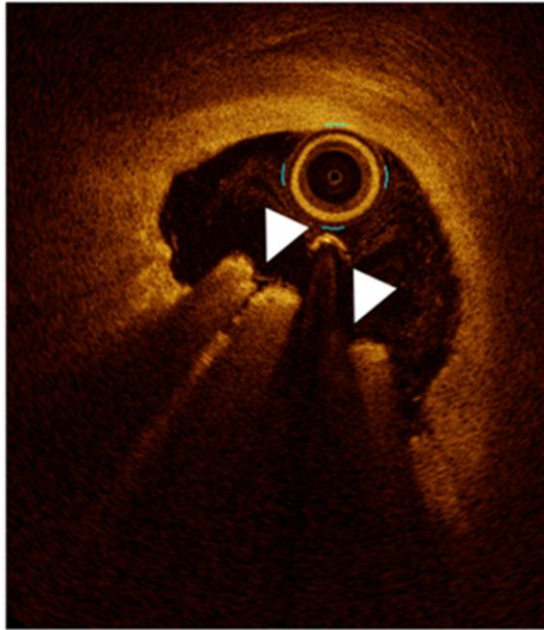
Lumen
Fibrous plaque
Calcium

Vessel negative remodeling =
Lesion EEL diameter < distal EEL diameter

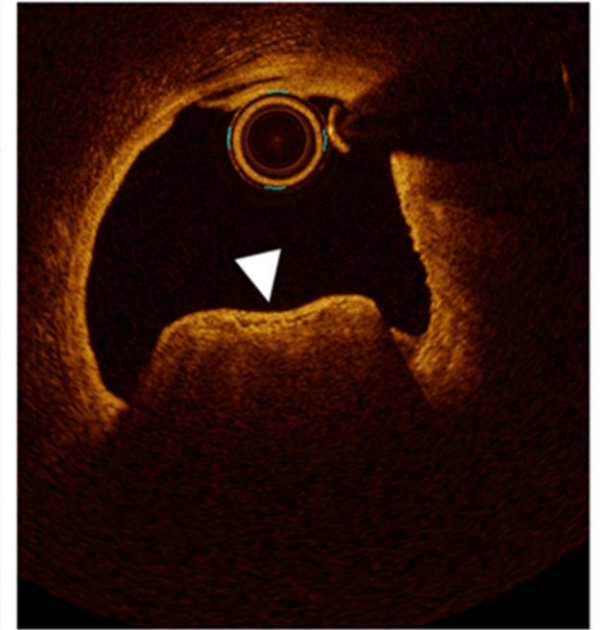
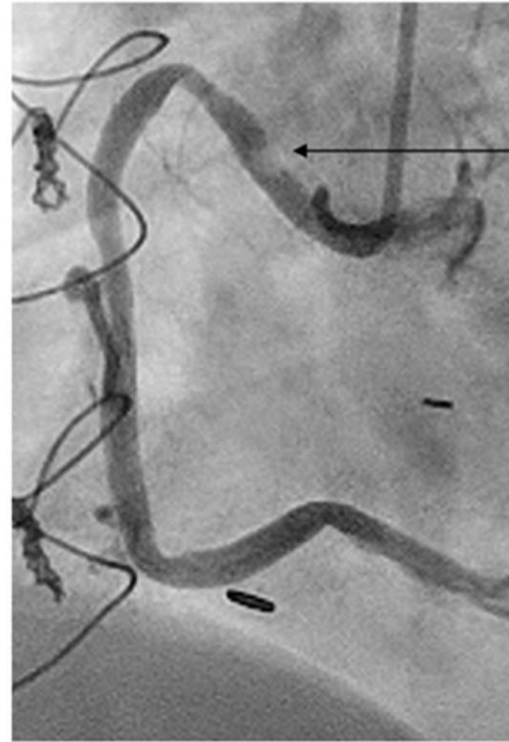


Kalsifik nodul

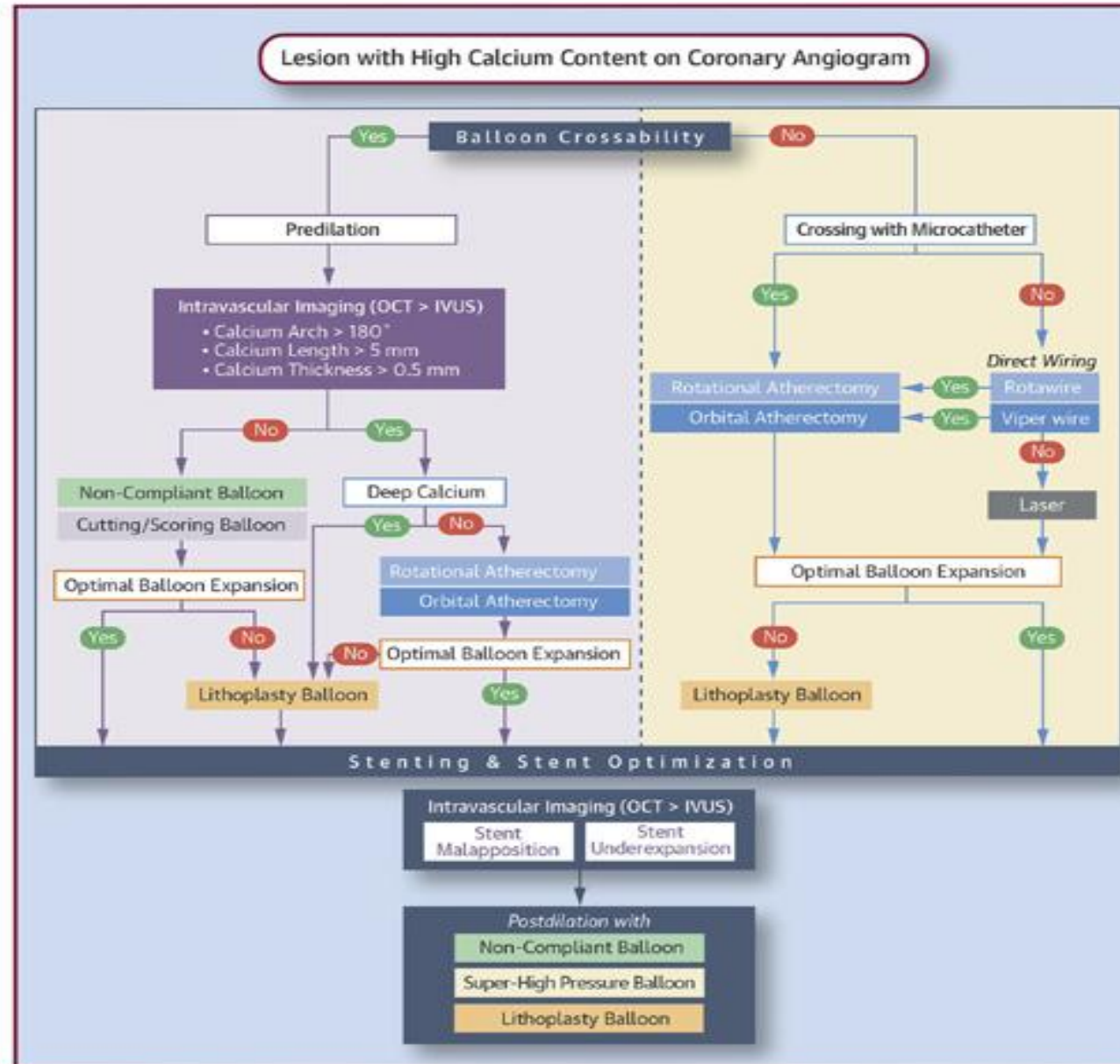
Eruptive CN



Non-eruptive CN



CENTRAL ILLUSTRATION: Algorithm for Optimal Management of Coronary Calcified Lesions



Kalsifik koronar lezyona invaziv müdaxilə

- **Geniş kateter**
- **Dəstəyi güclü tel**
- **Damariçi görüntüləmə**
- **Aterektomi**

Lezyon hazırlığı

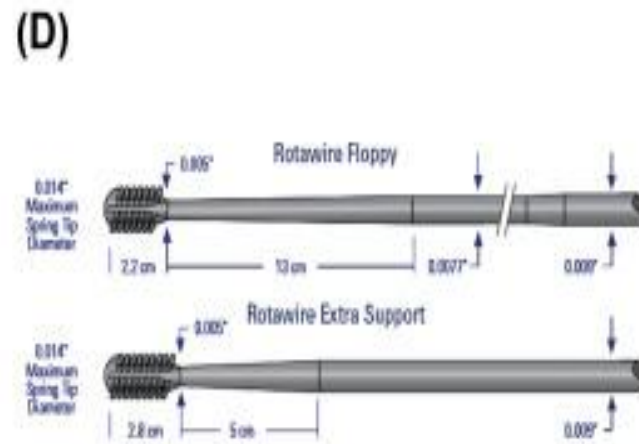
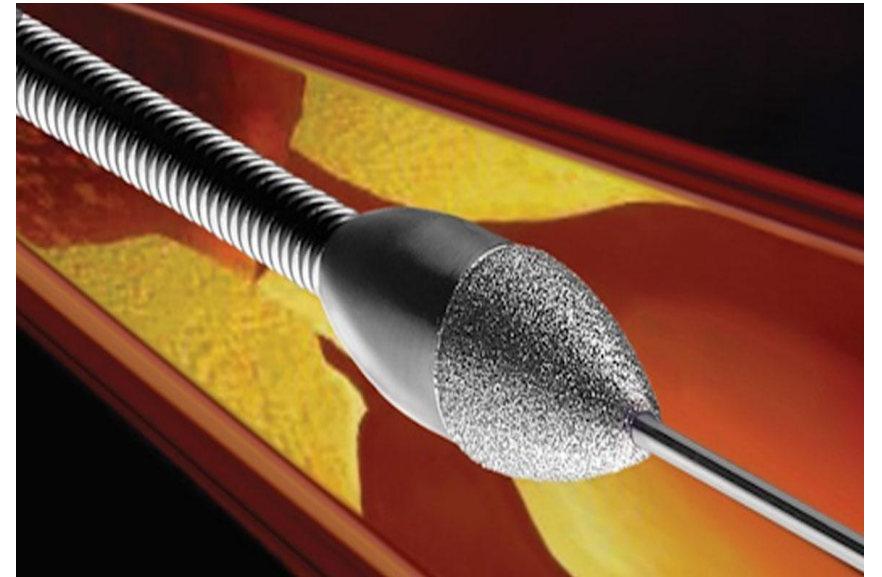
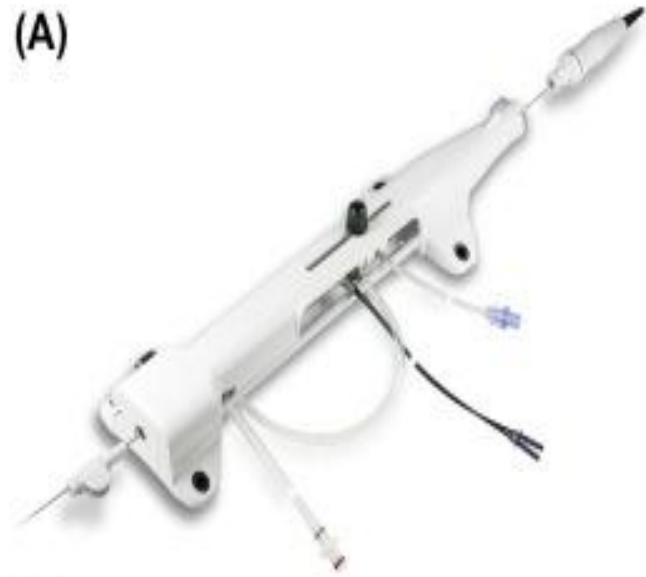
Xüsusi Balonlar

1. Cutting balon
2. Scoring balon
3. Yüksək təzyiqli balon
4. Litotiripsiya

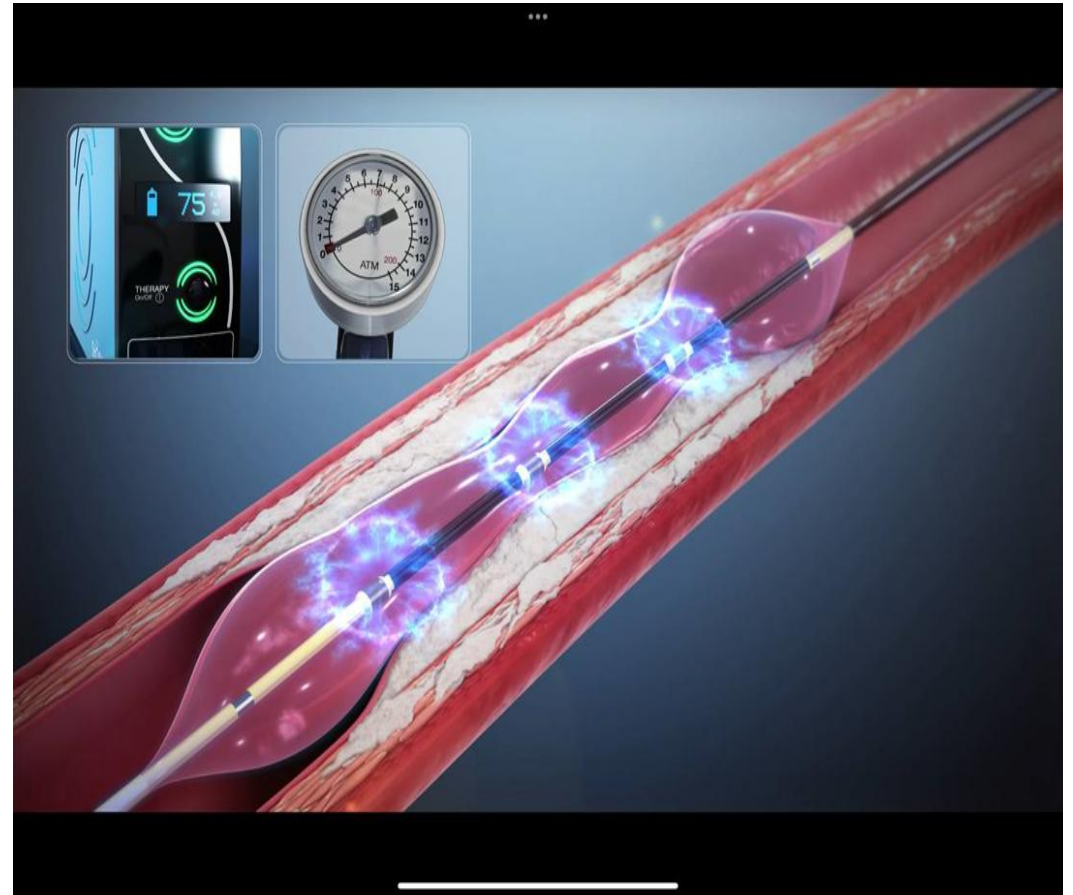
Aterektomiya texnikləri

1. Rotasiyalı aterektomiya
2. Orbital aterektomiya
3. Eximer lazer

ROTABLATOR



Litotripsiya



Komplikasiyalar

- **Diseksiya**
- **Rüptür**
- **Stent sıyrılması**
- **Stentin lazımı qədər açılmaması**
- **Stent malapozisiyasi**

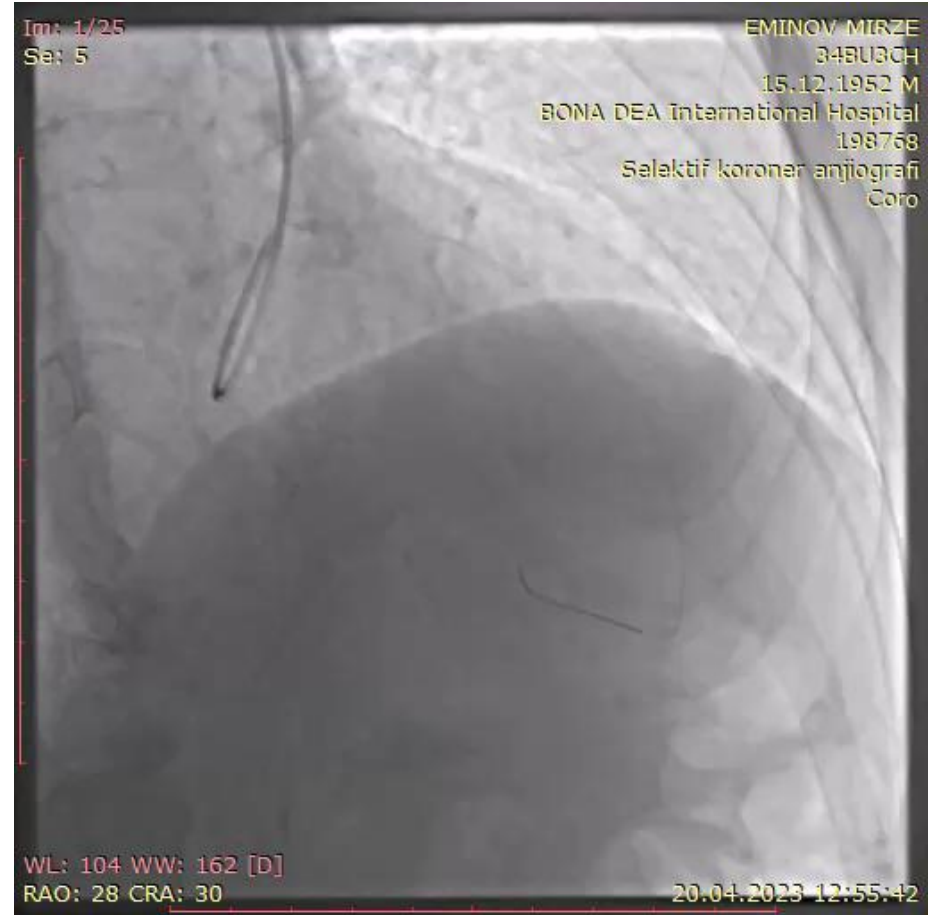
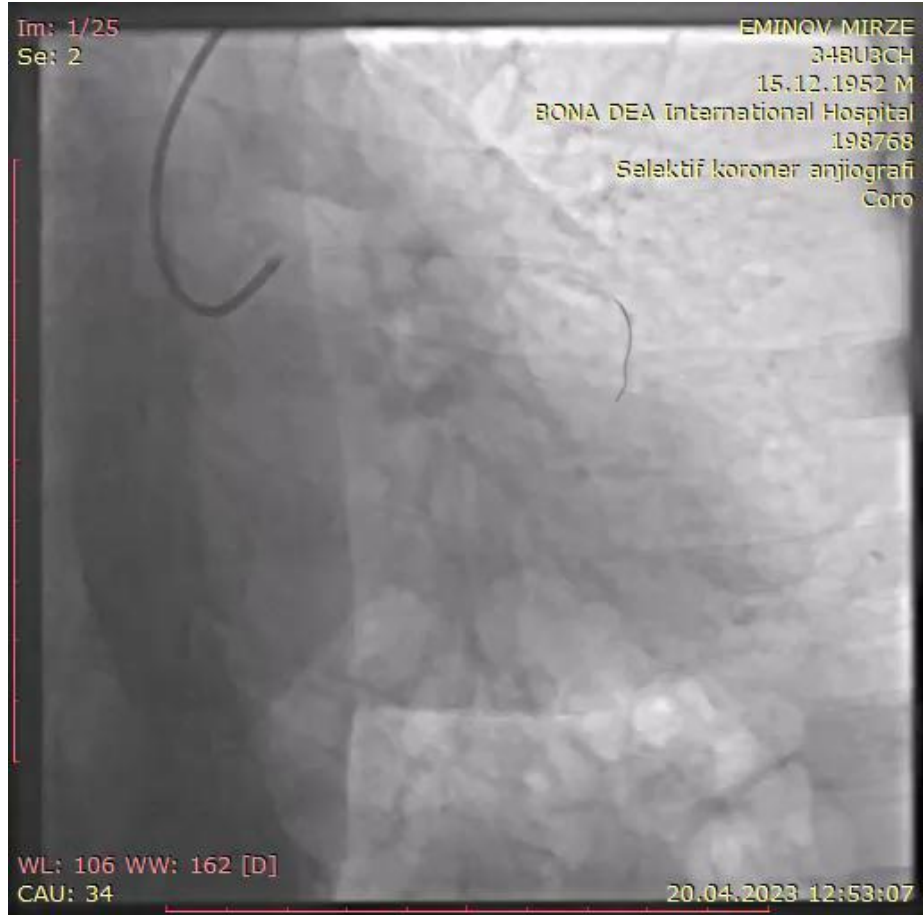
71 Yaş kişi

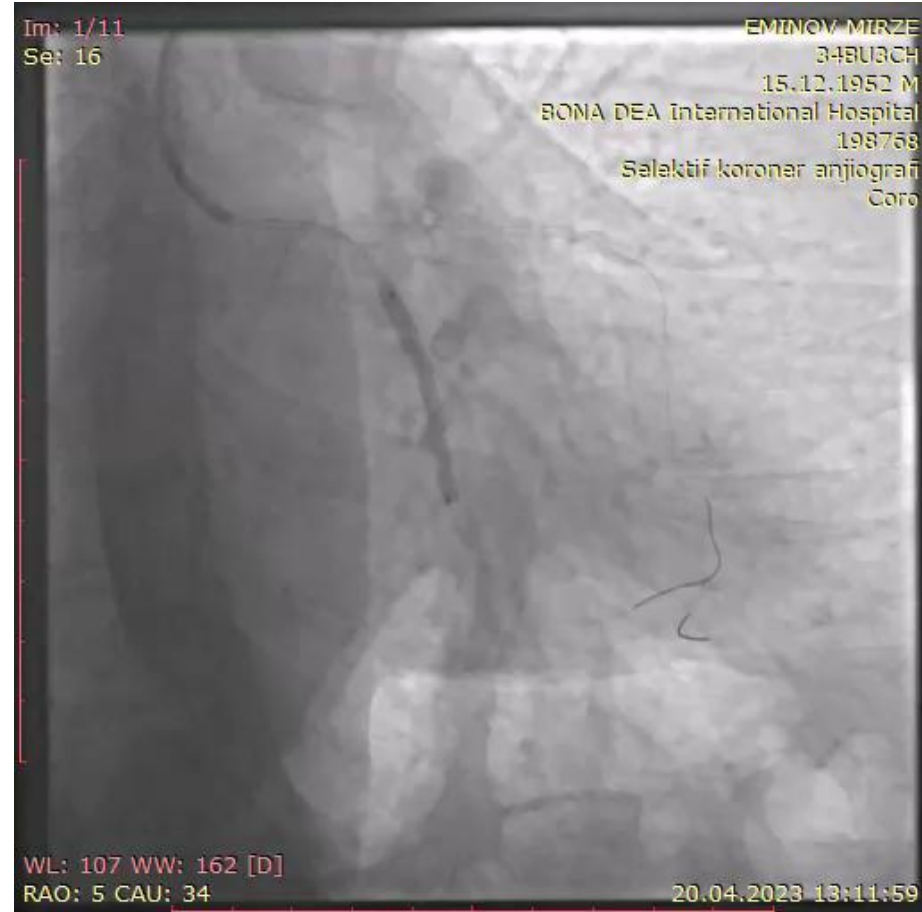
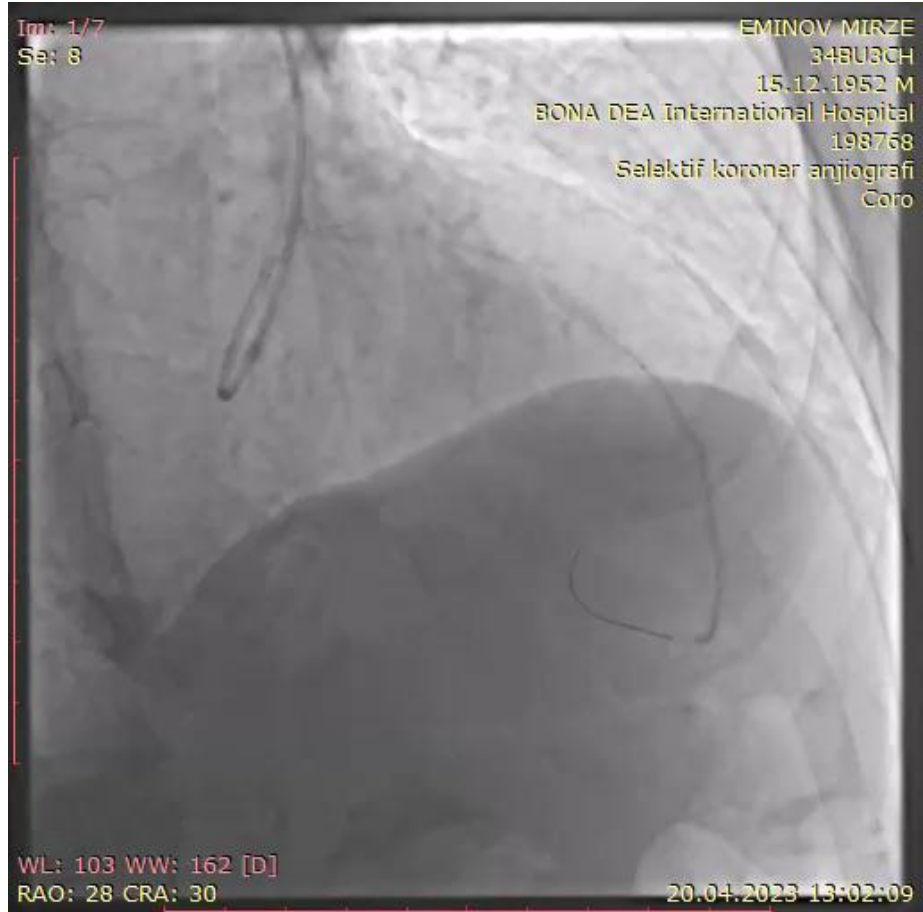
Şikayeti: Unstabil anjina

RF: KAX, DM, HT, Siqaret

EKG: NSR Ön yüz derivasiyalarında dərin T dalğaları

EXO: EF 50%, Anterior divarda hipokineziya, 1-2 dərəcə MÇ

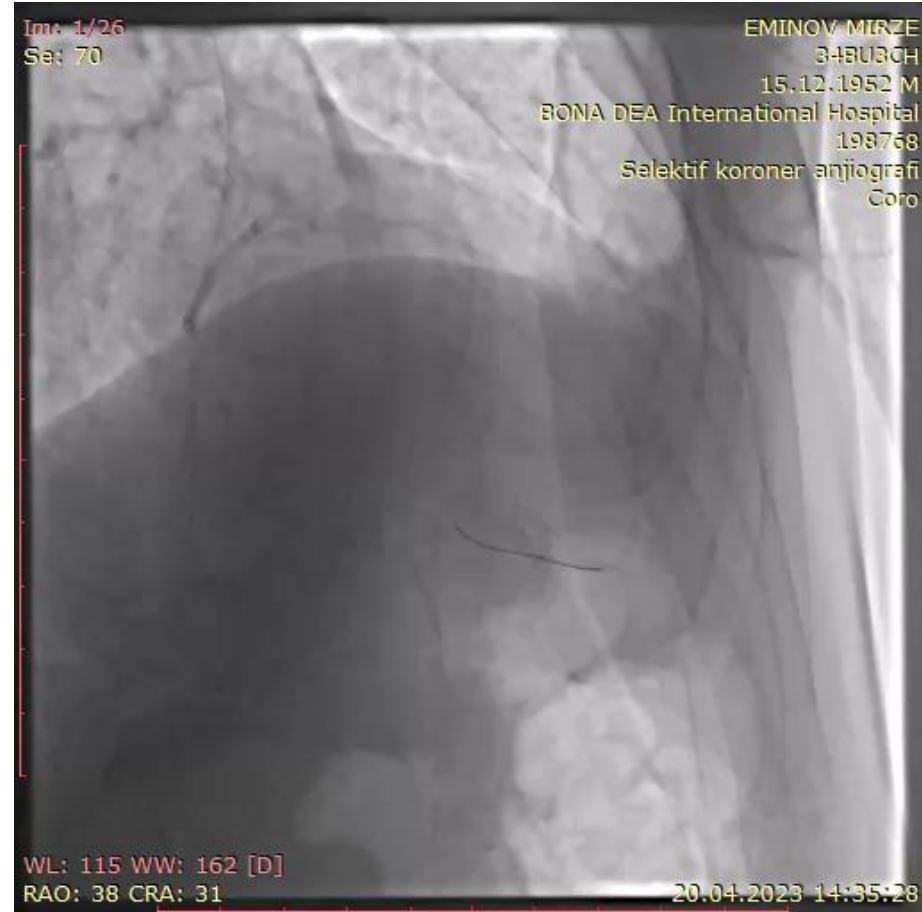
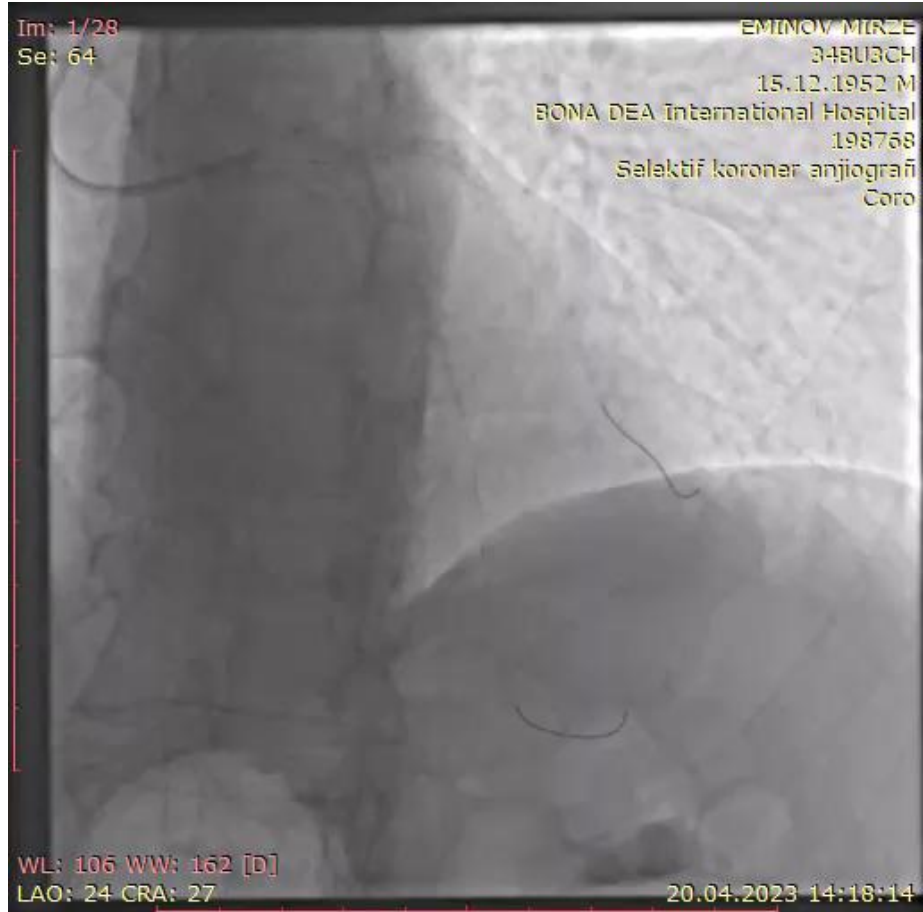












60 Yaş kişi xəstə

Şikayəti: Efor anginası

Anamnez: HT, DM,
1.5 il əvvəl Mİ - RCA stent (DES)

EKG: NSR d2, d3, avf de QS+

EXO: EF%30-35 inferior, apex, apikoseptal hipokineziya
Yüngül MÇ, TÇ

MPS: Anterior bölgədə işemiya





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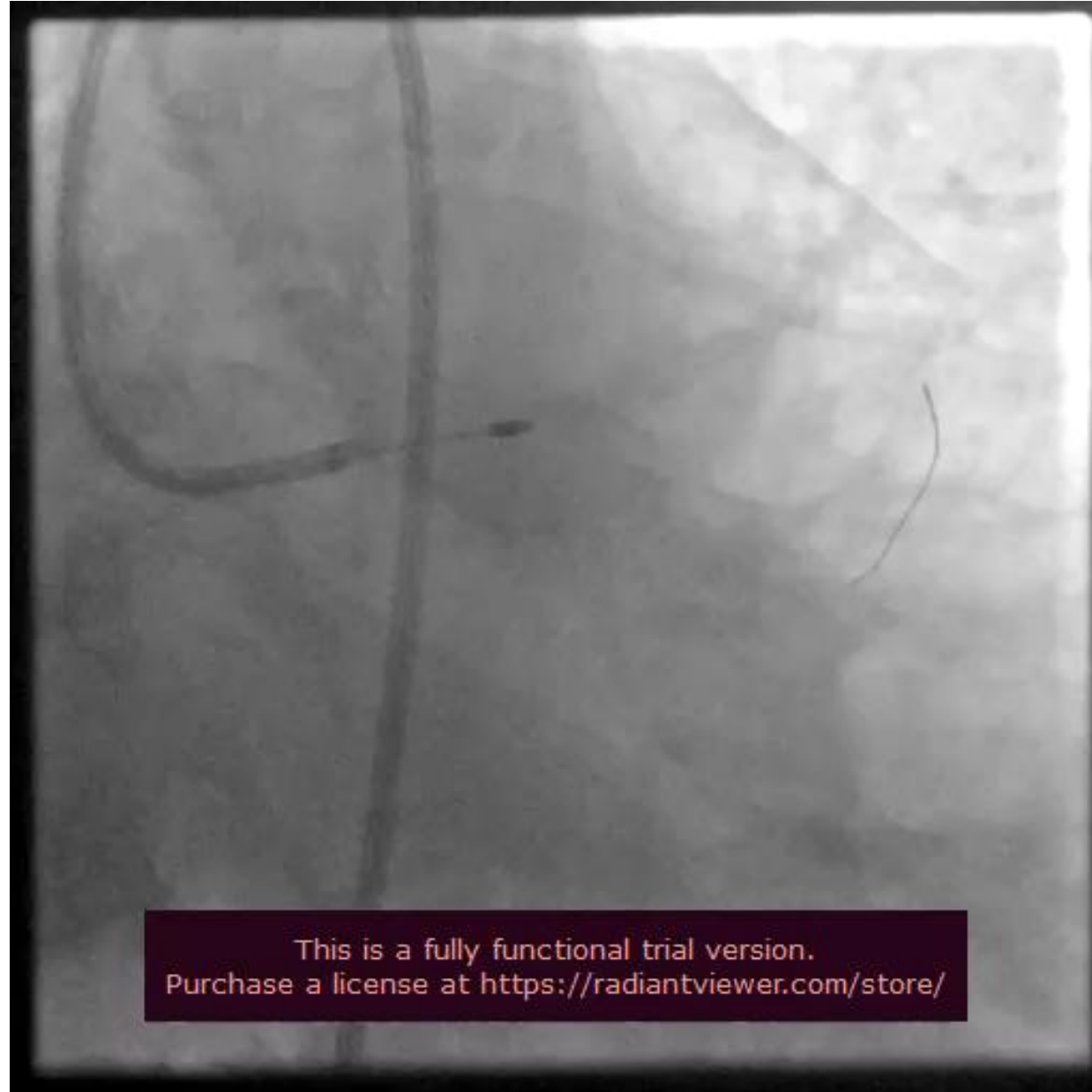


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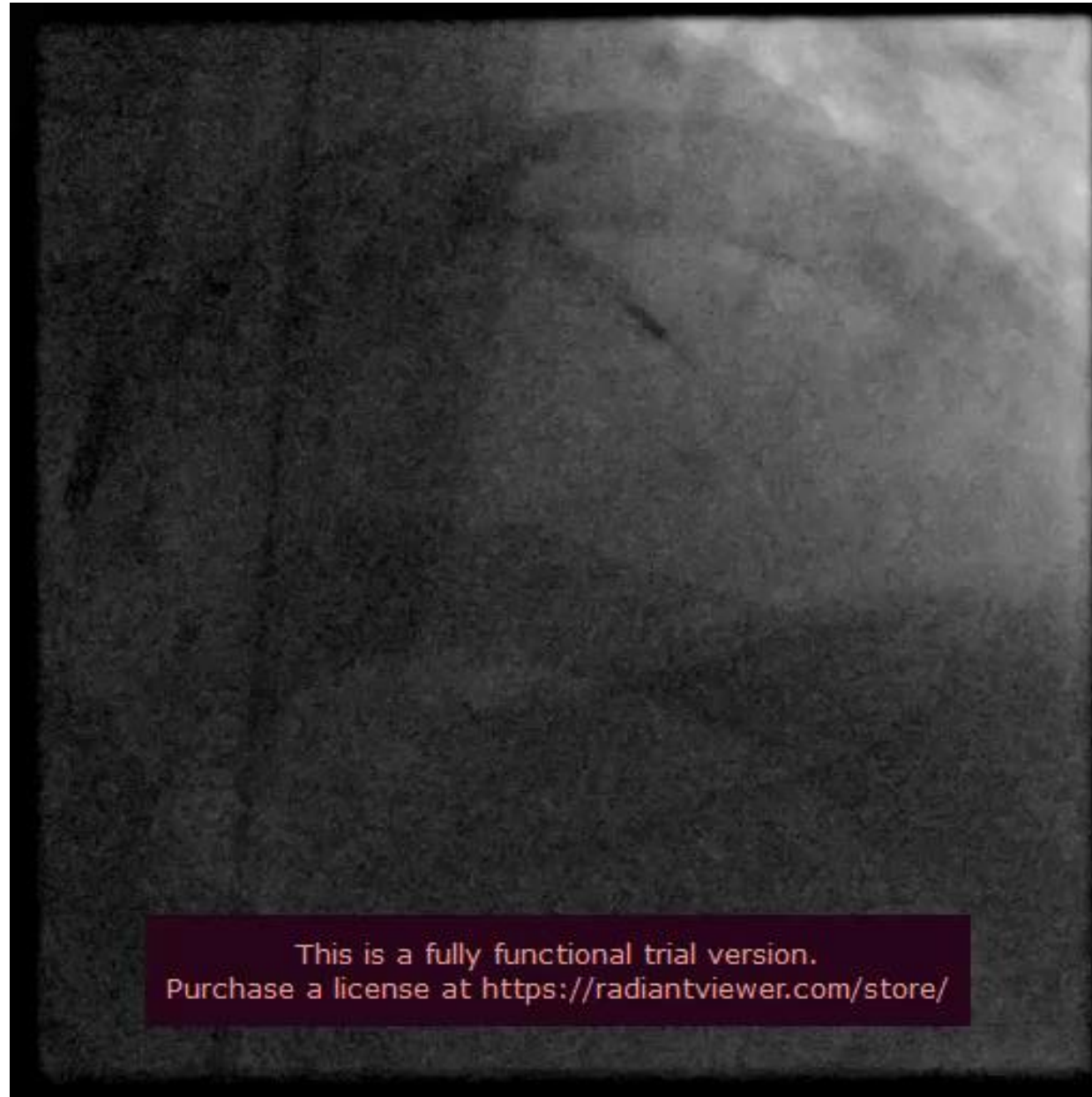
PTCA



Rotasiyalı aterektomiya



ivus

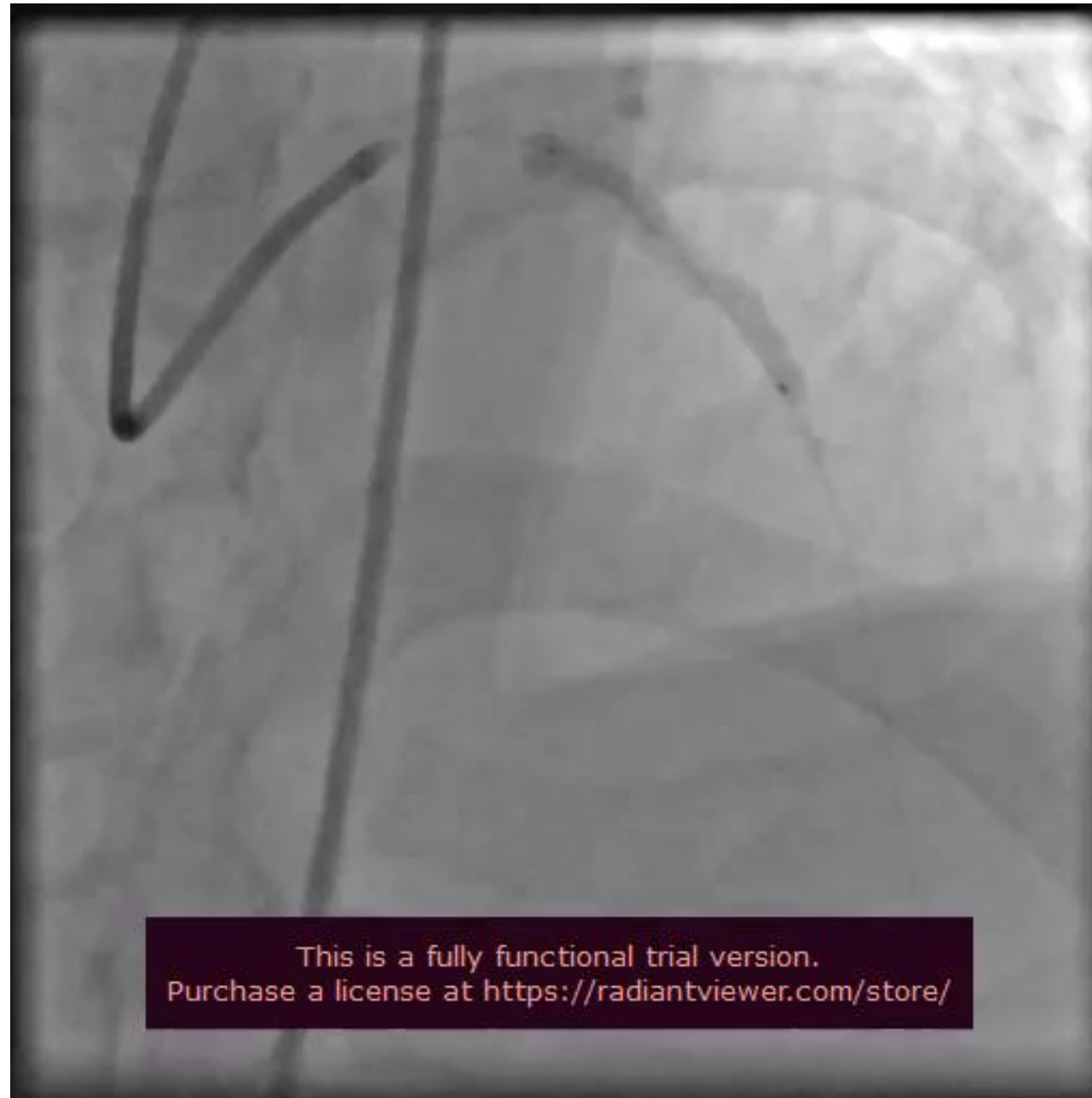


N/C balon



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DCB

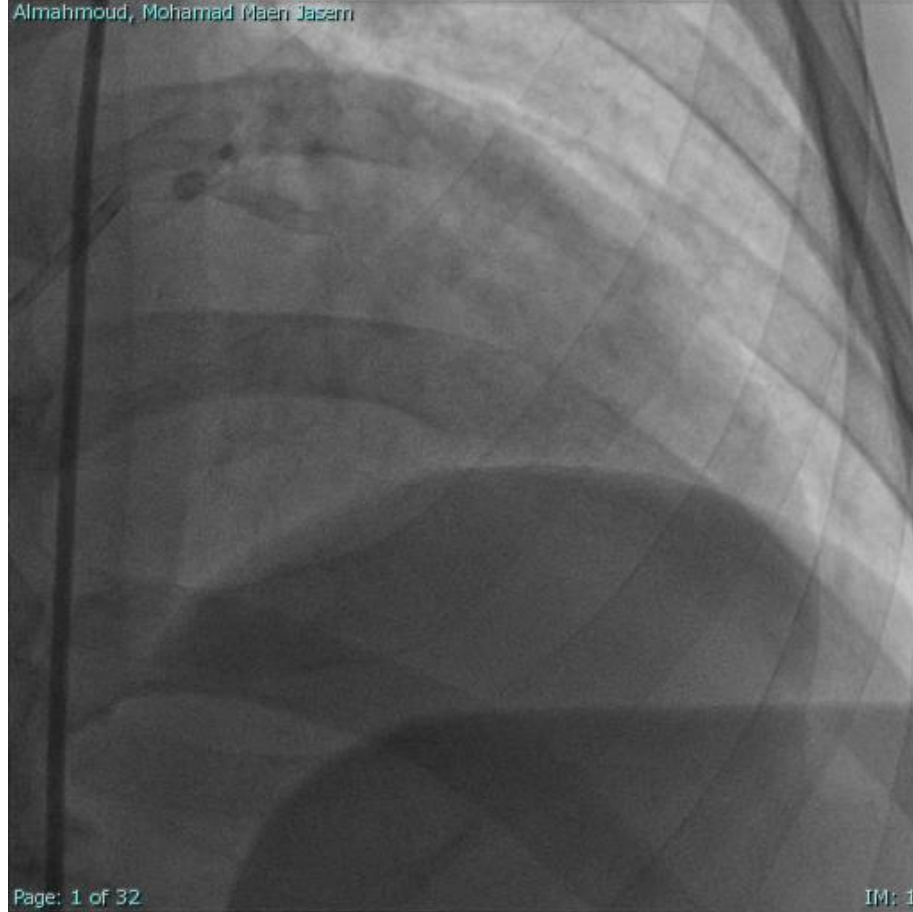


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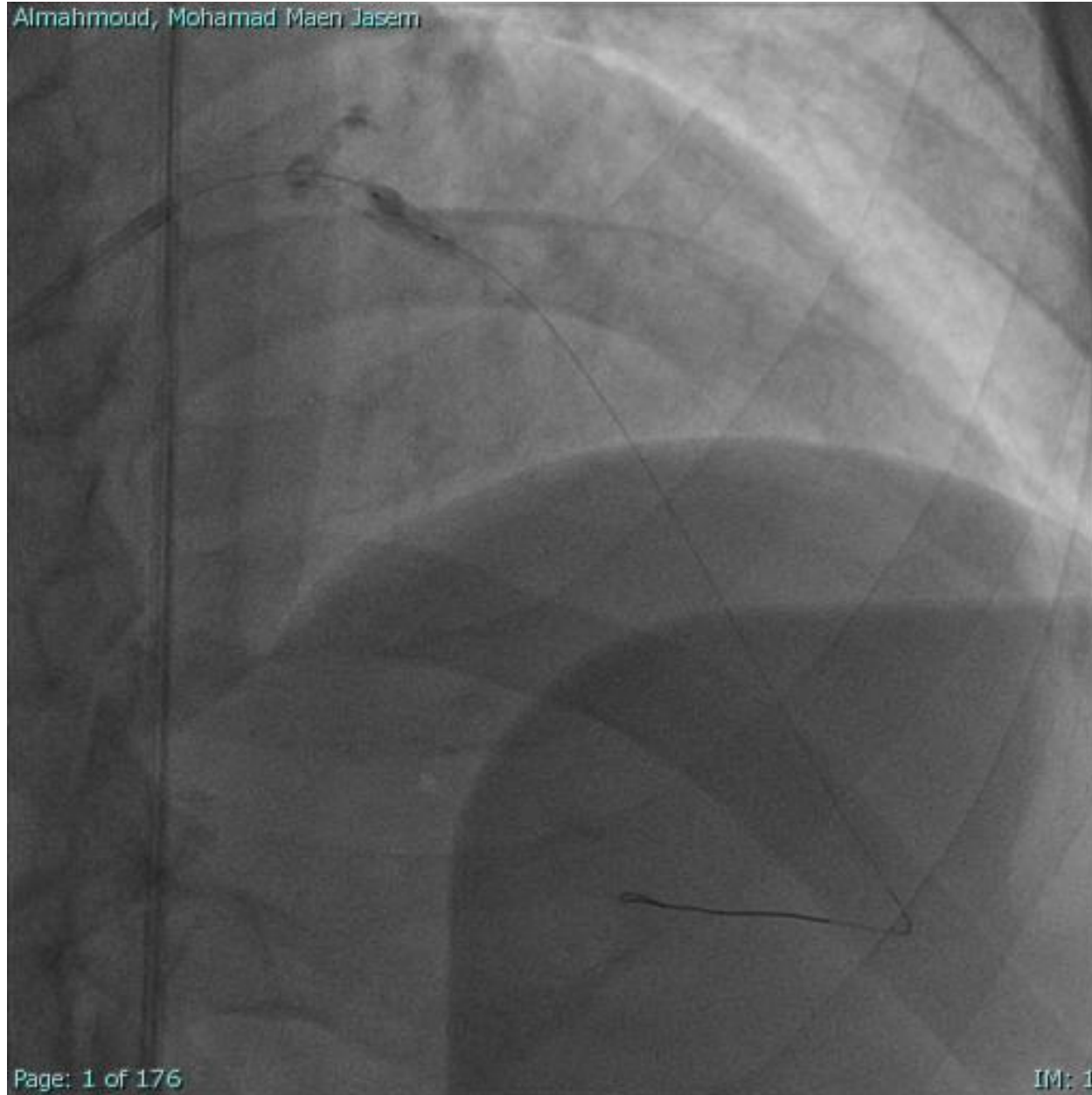
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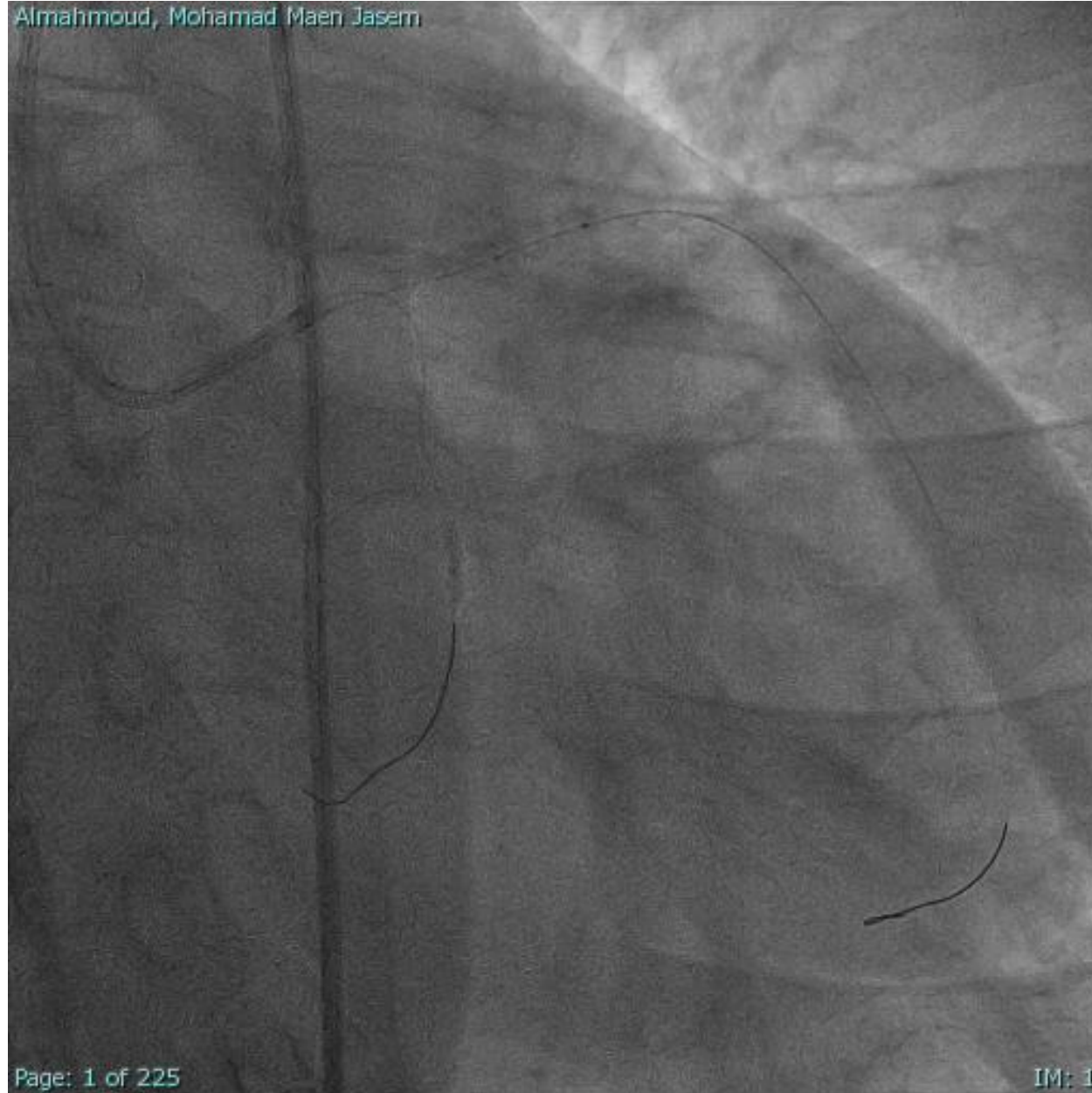
N/C balon

Almahmoud, Mohamad Maen Jasem

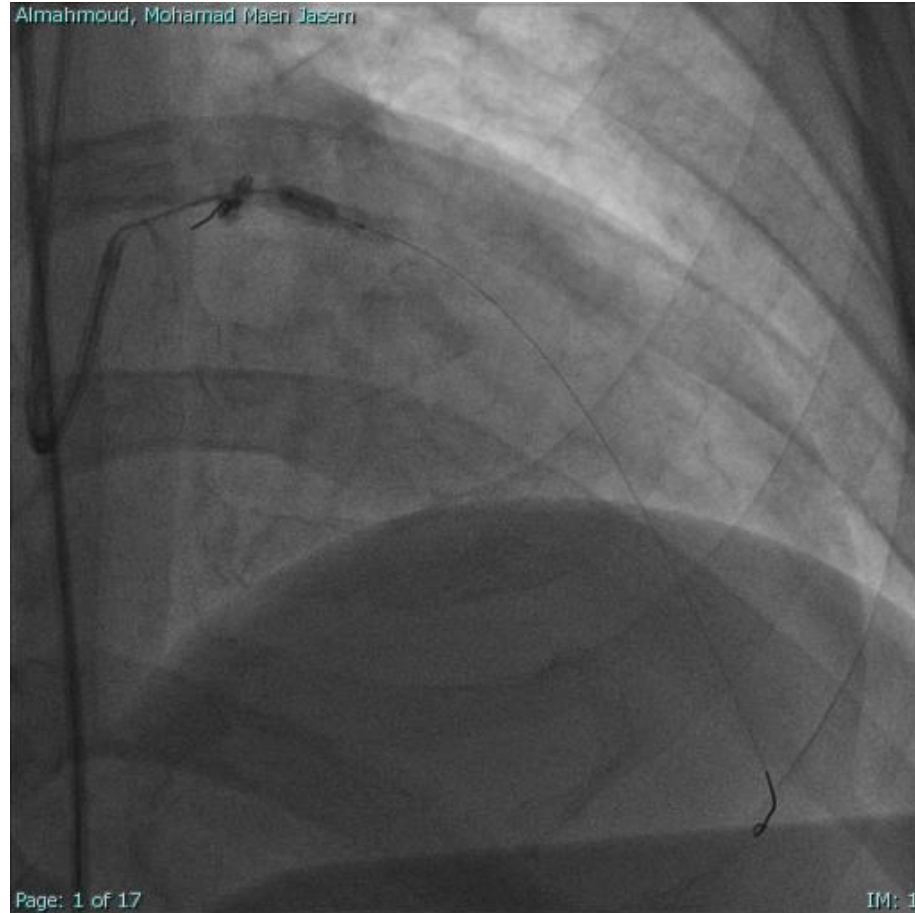


Anchor dəstəyi

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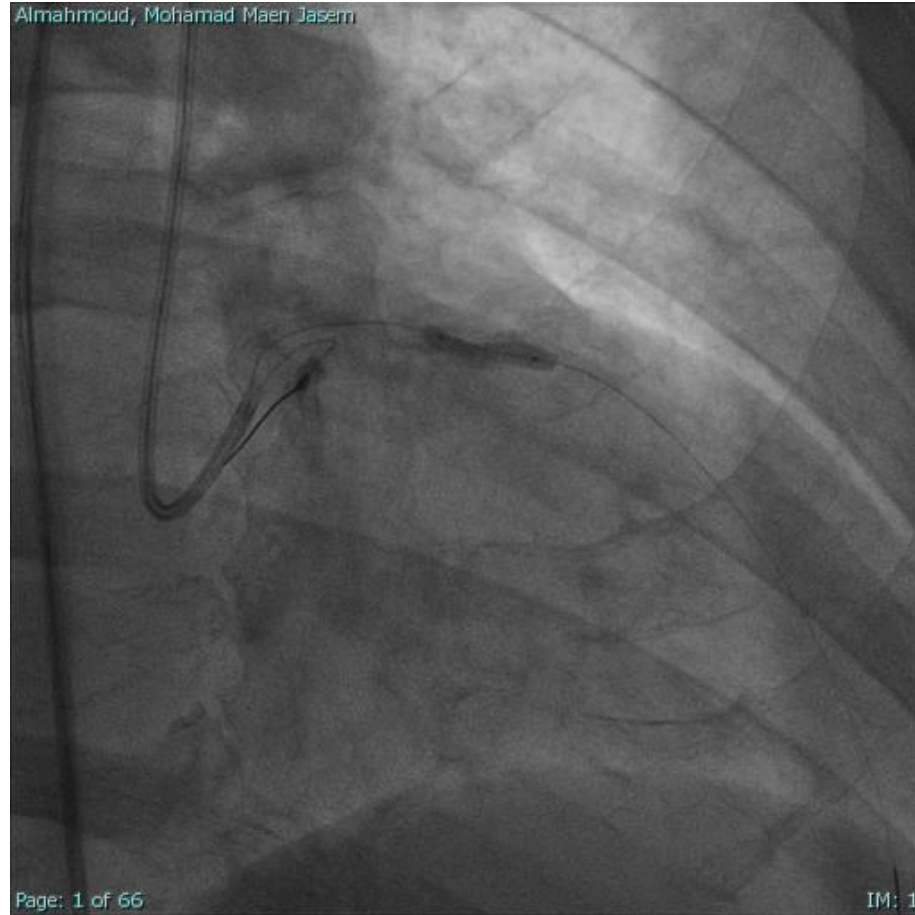
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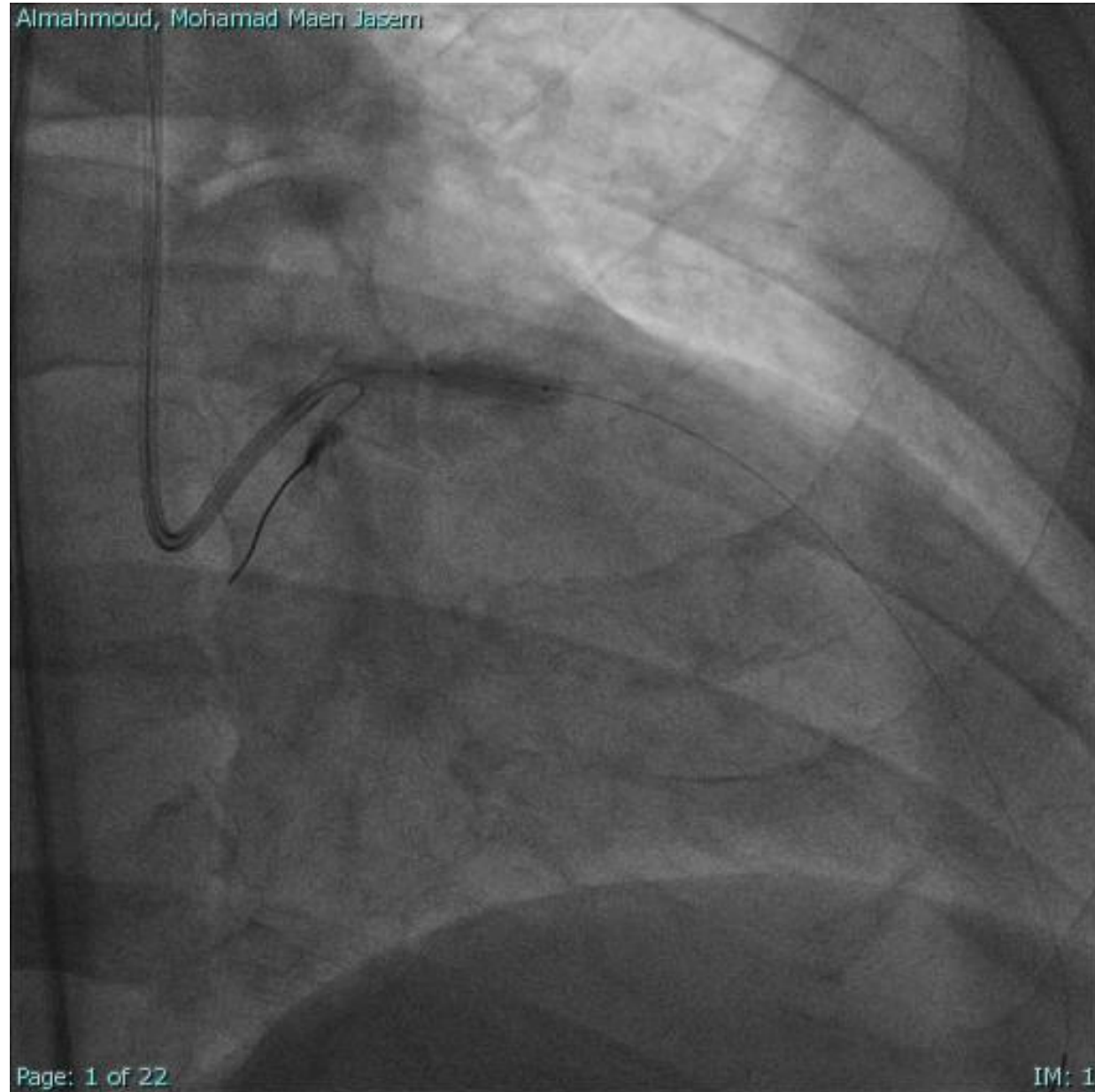


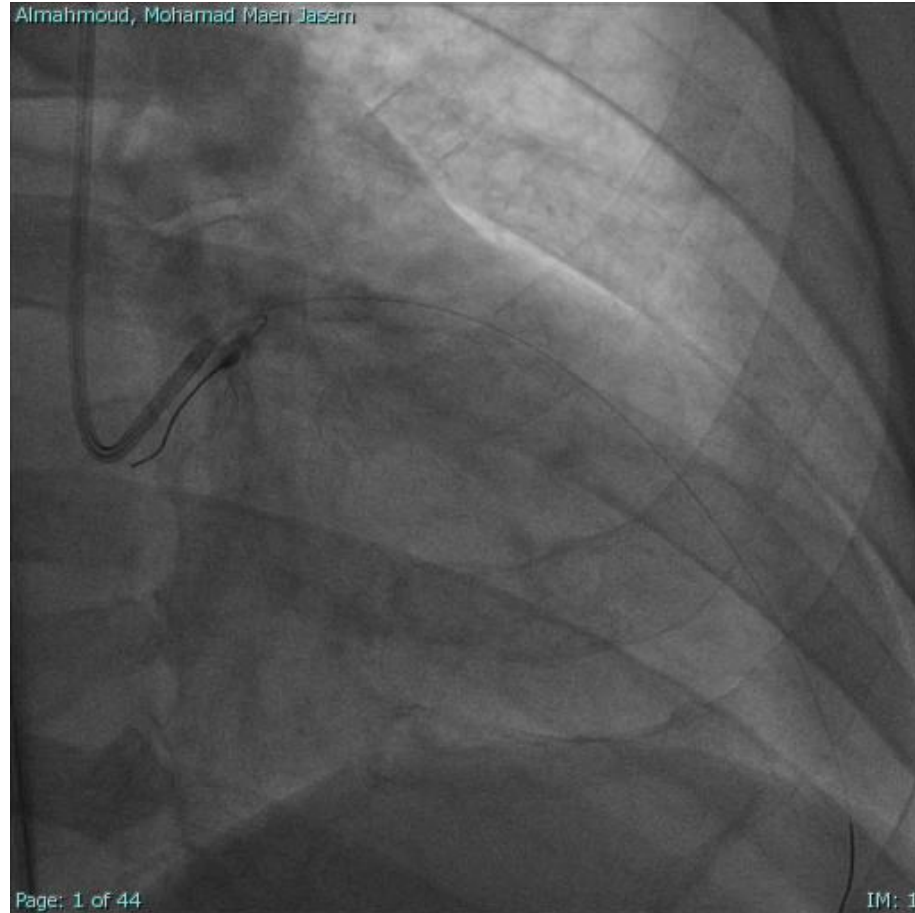
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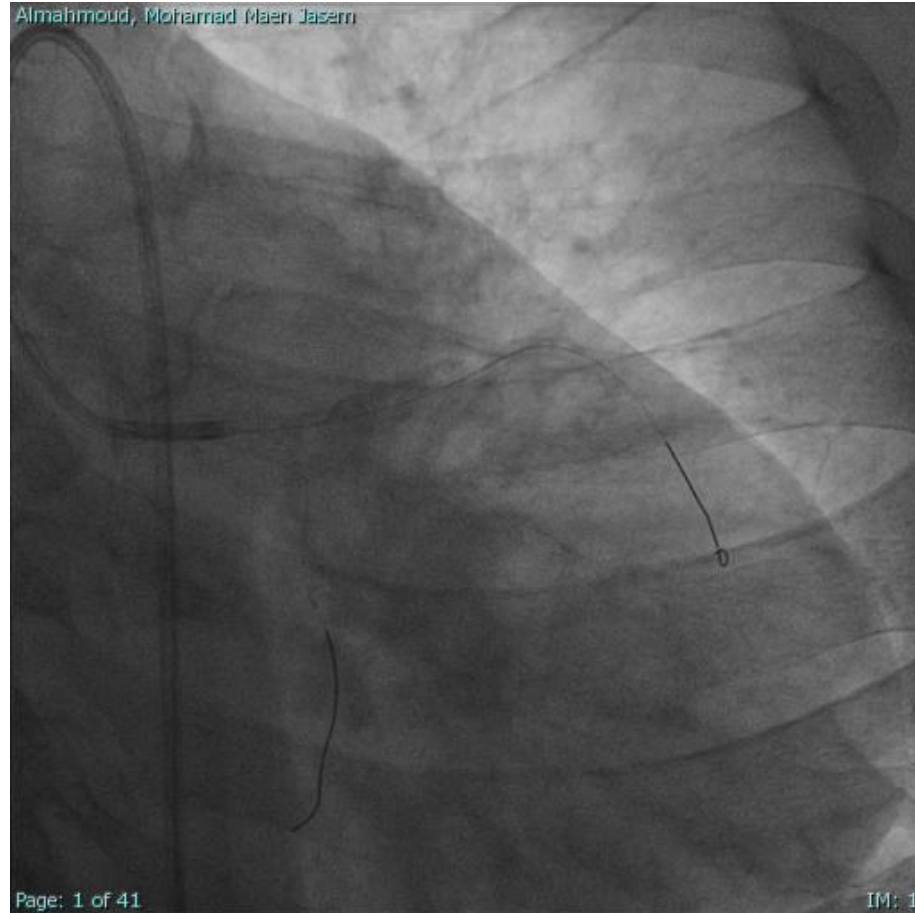
Litotripsiya

Almahmoud, Mohamad Maen Jasem



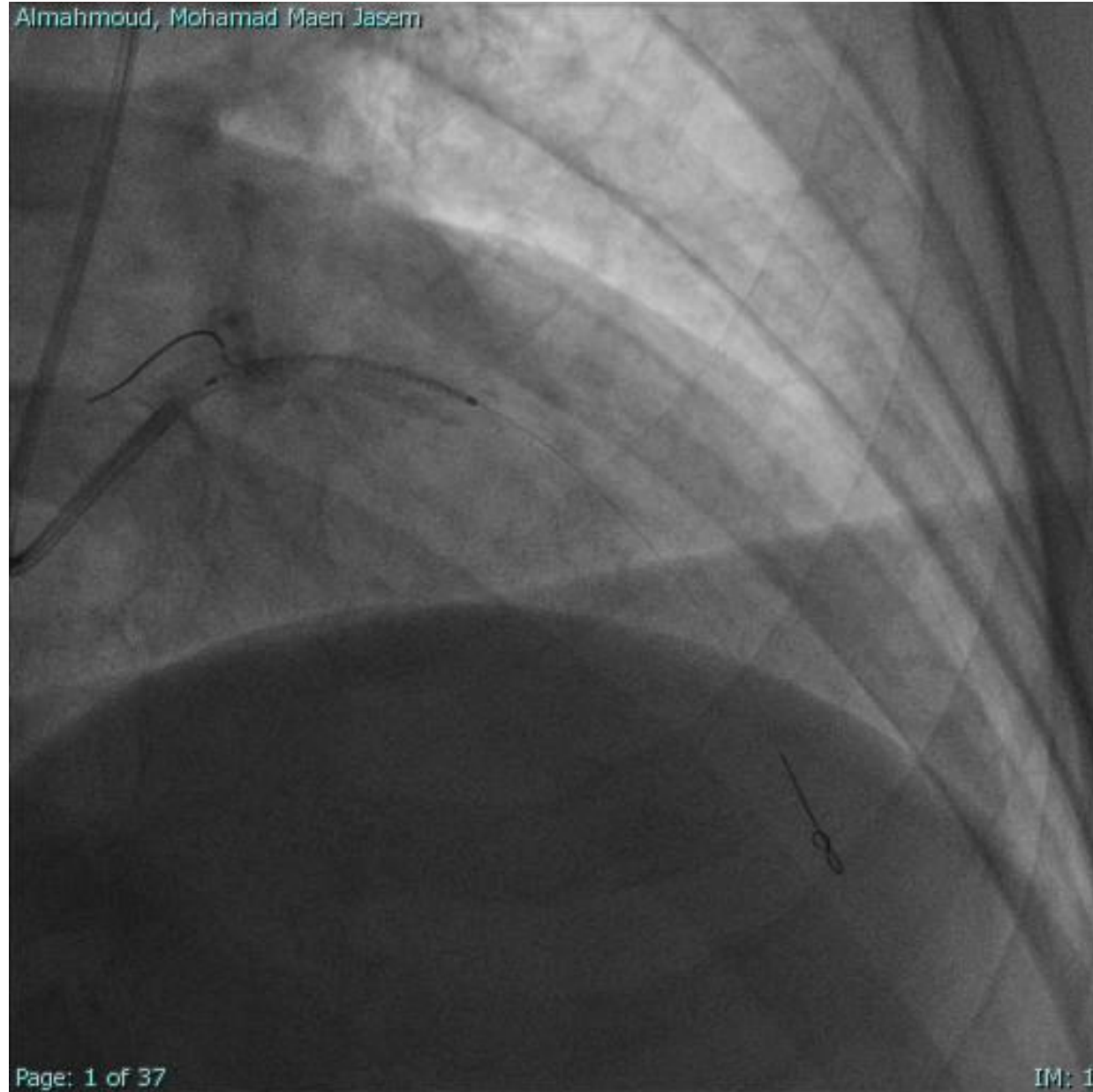


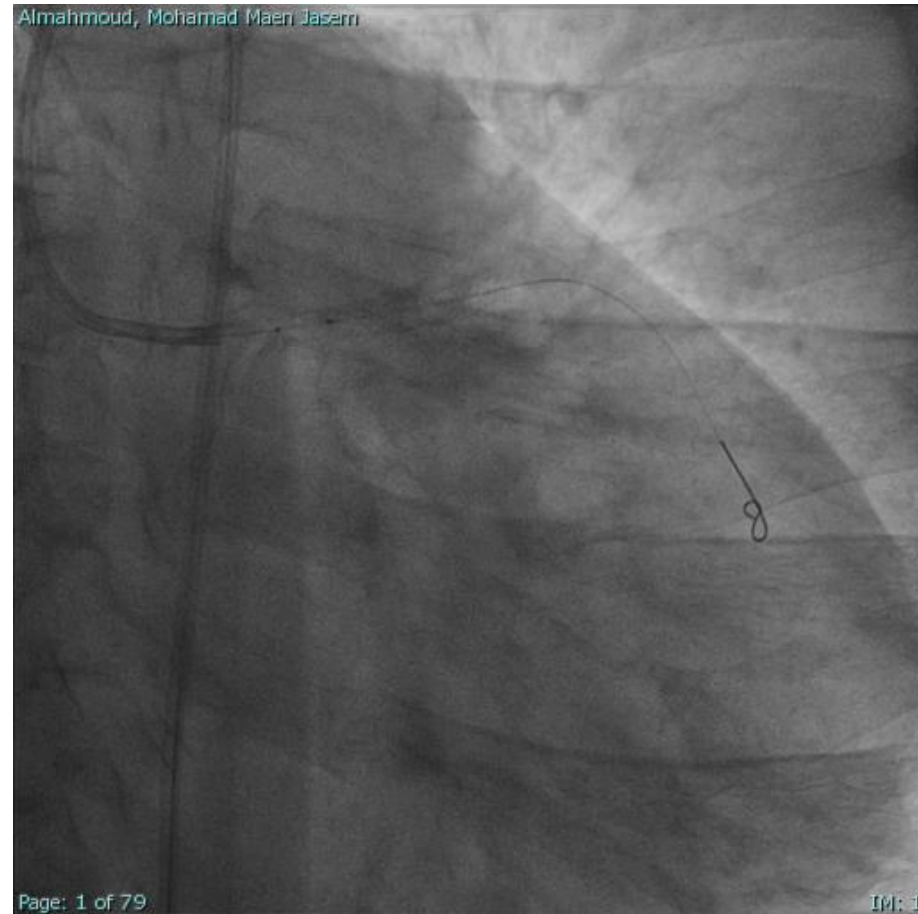
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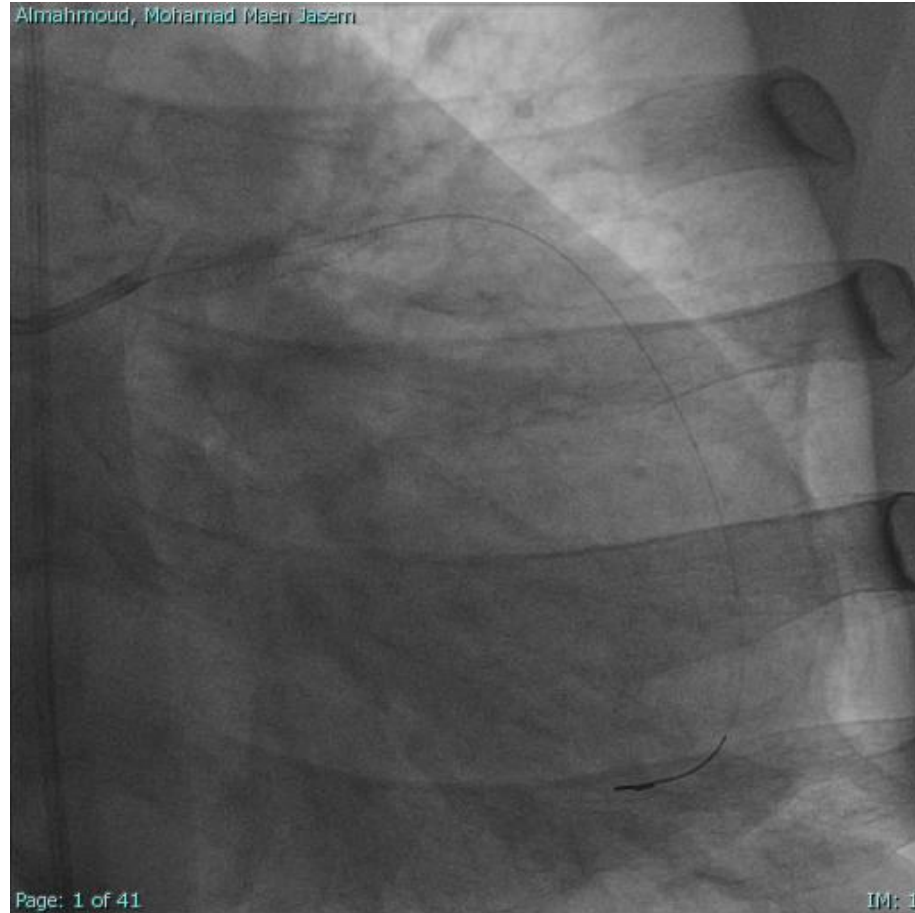
STENT

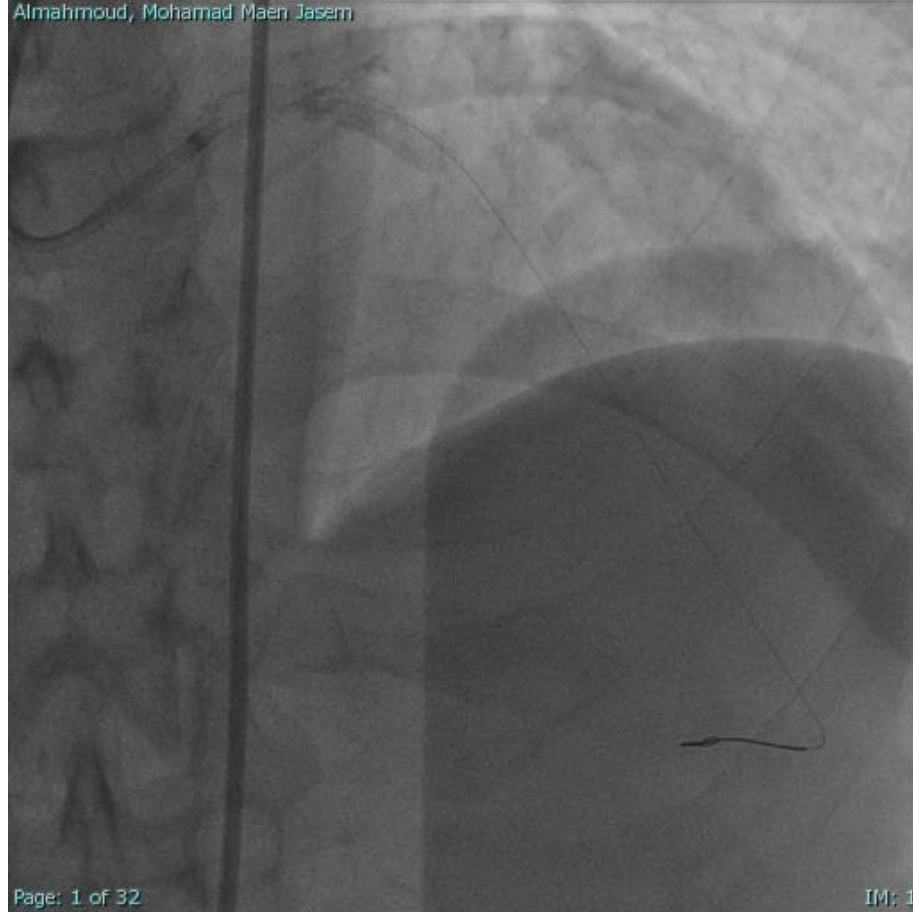
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3 il sonra kontrol KAQ



Im: 1/42
Se: 3

PINAR EMINE
4395025
01.01.1946 F
Istanbul Memorial Saglik
1
Coronary^Diagnostic Coronary Catheterization
Coro

WL: 112
LAO: 8 CAU: 35

23.06.2018 15:40:35

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Im: 1/24
Se: 16

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Coro

WL: 108

RAO: 1 CAU: 25

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Se: 18

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Coro

WL: 104

RAO: 1 CAU: 25

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Coro

WL: 108
RAO: 1 CAU: 25

23.06.2018 16:02:21

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Set: 49

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Coronary^Diagnostic Coronary Catheterization
Coro

WL: 115

LAO: 41 CAU: 33

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