ČESKÁ KARDIOLOGICKÁ SPOLEČNOST

24. Symposium PS Chlopenní a vrozené srdeční vady v dospělosti ČKS, 2. – 3. března 2023, Hradec Králové

Perkutánní pulmonální revalvulace – nové směry

Ondřej Materna

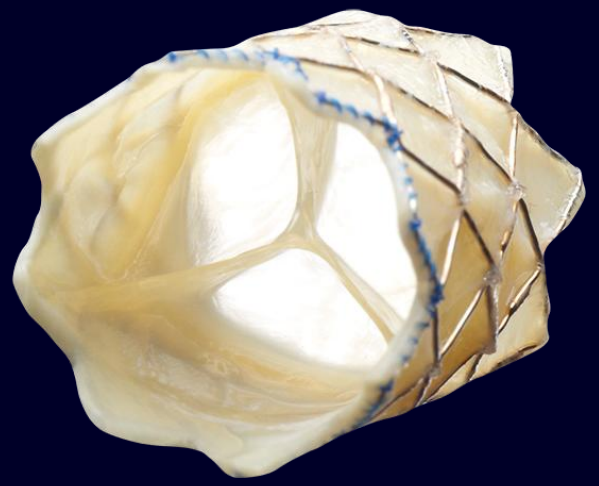
European Reference Network
for rare or low prevalence complex diseases

Dětské kardiocentrum
2. lékařská fakulta Univerzity Karlovy
Fakultní nemocnice v Motole, Praha

Chlopeň Medtronic Melody TPV

Vývoj chlopně:

- 90. léta 20. století - dr. Philipp Bonhoeffer s podporou firmy Medtronic
- preparovaný segment bovinní jugulární žíly s venózní chlopní našitý na CP stent
- zaváděcí systém Ensemble
  - BIB balón 18, 20 a 22 mm
- 1. implantace v r. 2000
- CE mark v r. 2006

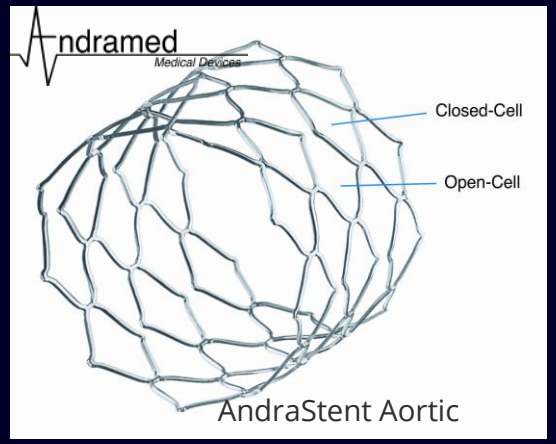


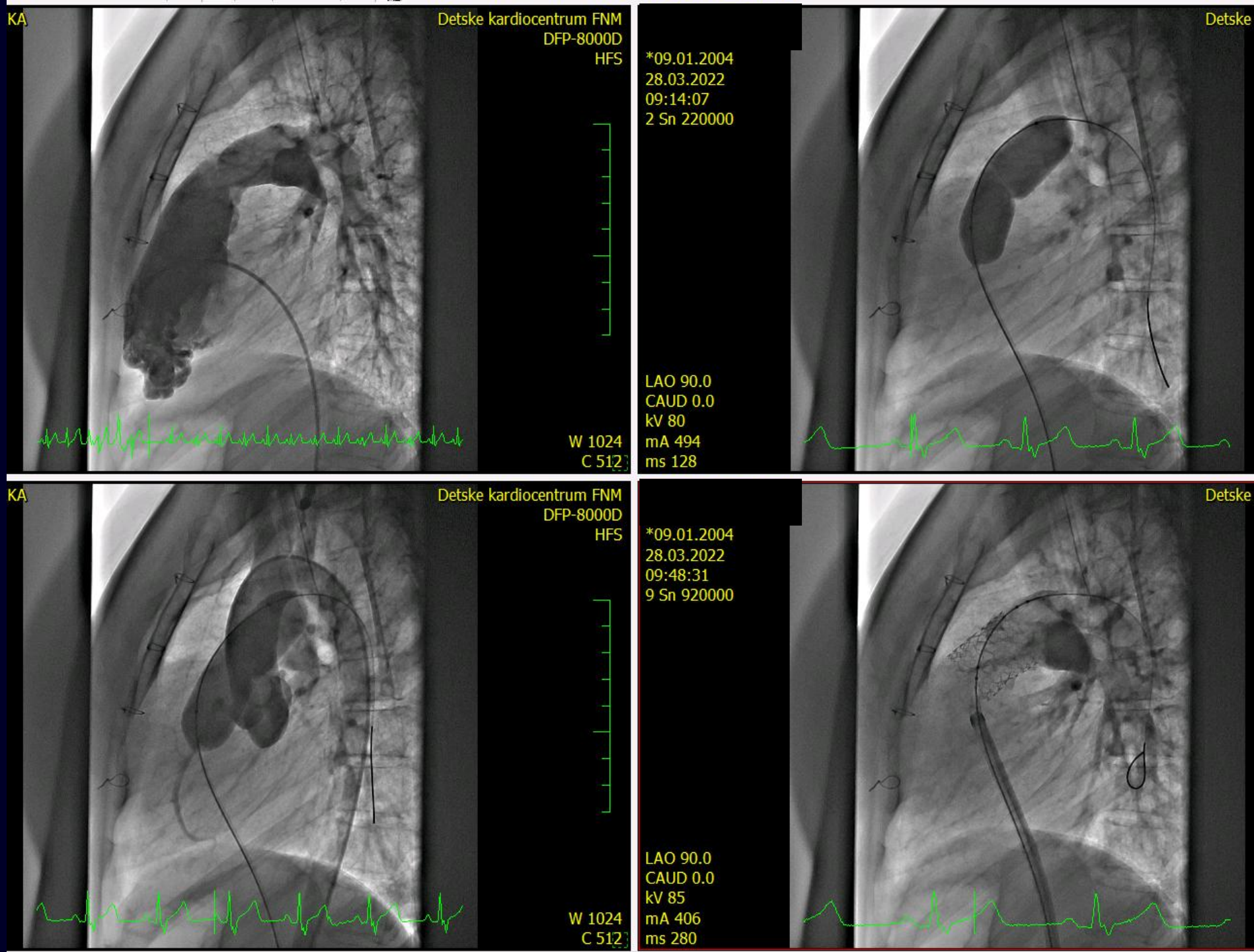
Původní indikační kritéria:

- dysfunkce konduitu
  - střední až těžká regurgitace
  - obstrukce RVOT
- hmotnost ≥ 25 kg
- původní rozměr konduitu ≥ 16 mm
- aktuální rozměr < 22 mm
- vhodná anatomie konduitu

23, 26, 29 mm

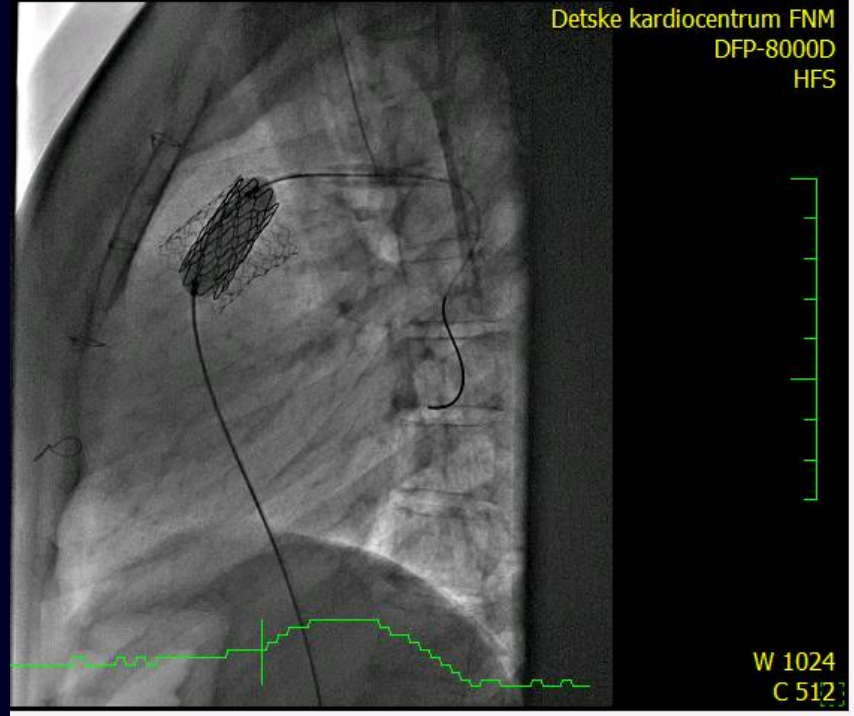
Atrézie plicnice s trans-anulární záplatou





Medtronic

Melody™
TPV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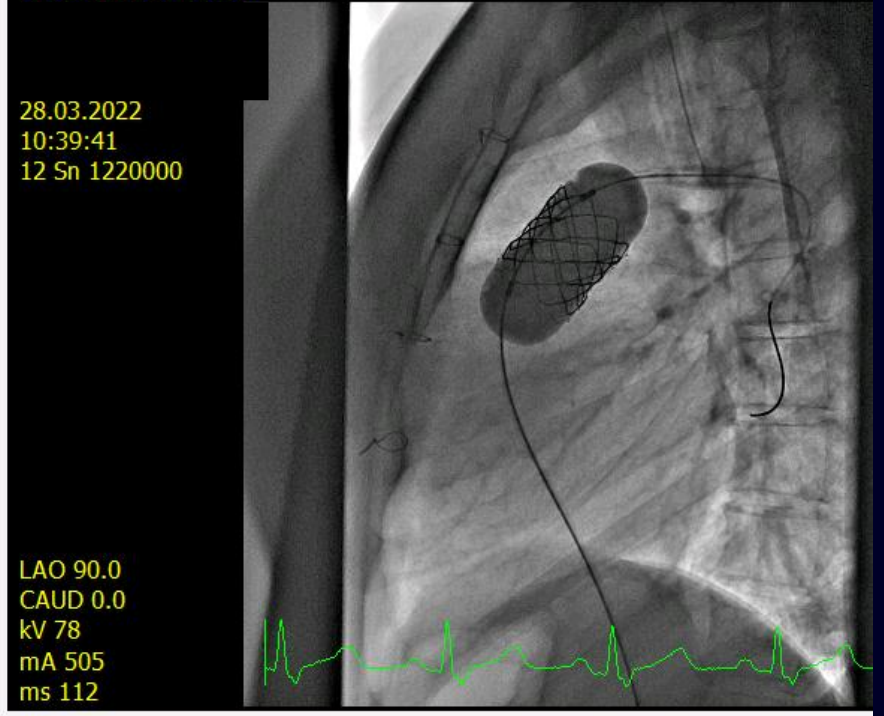
DFP-8000D
HFS
W 1024
C 512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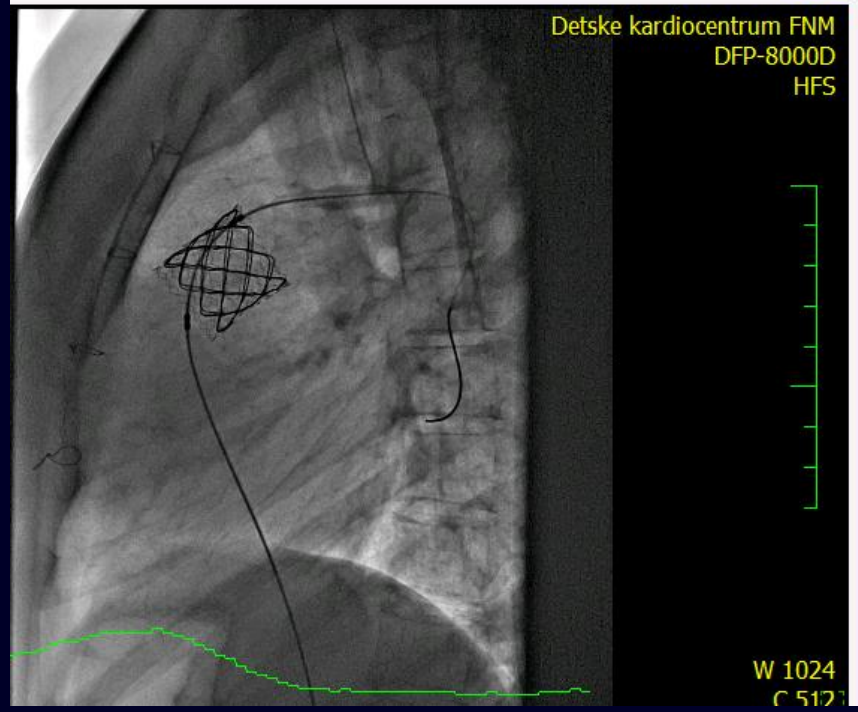
ms 112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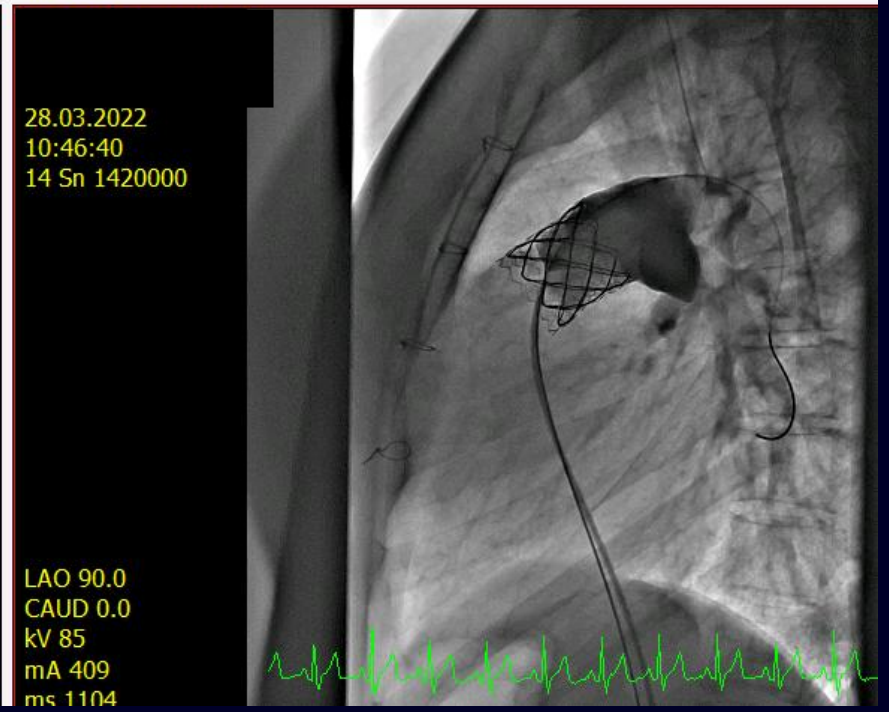
C 512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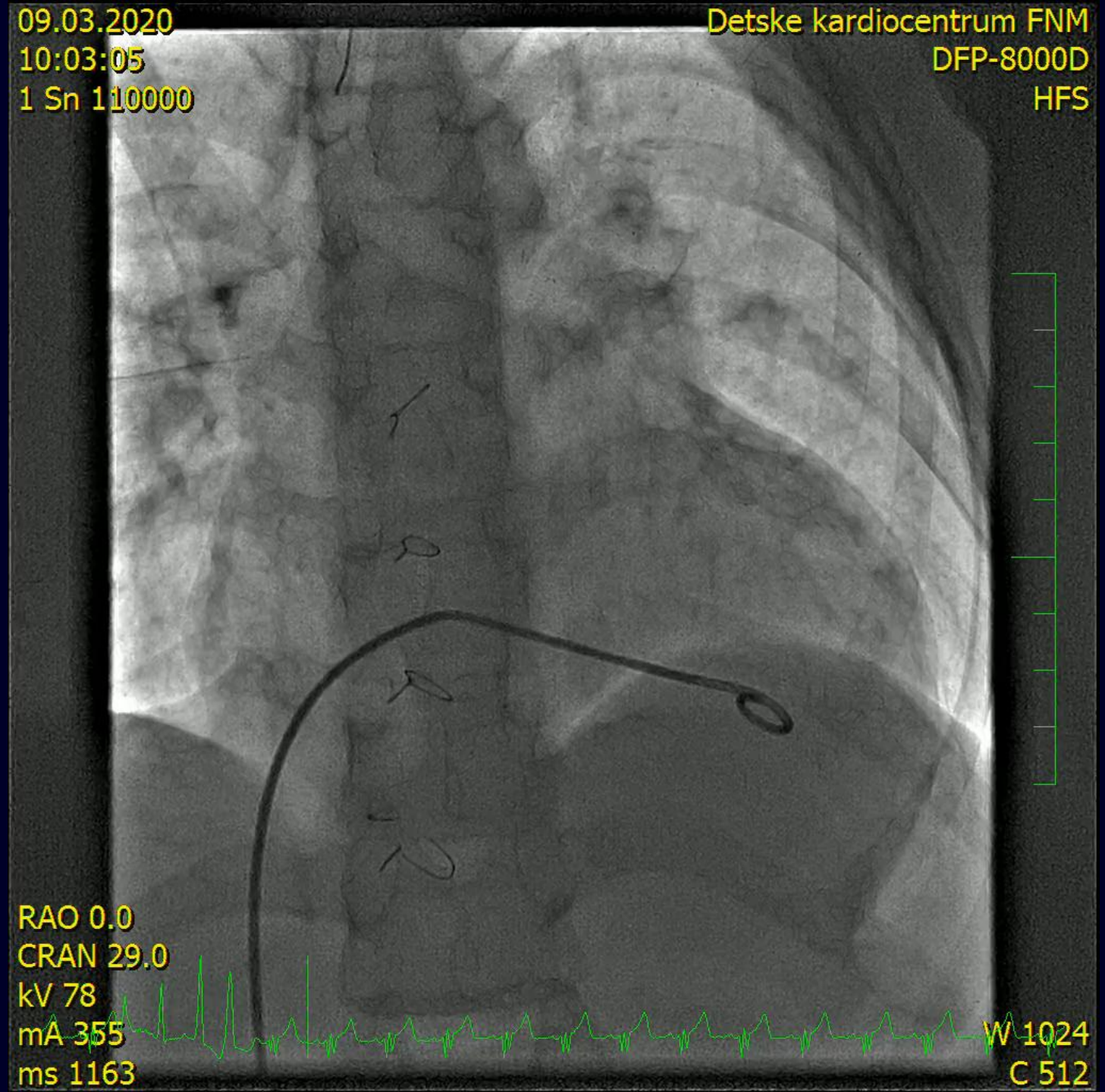
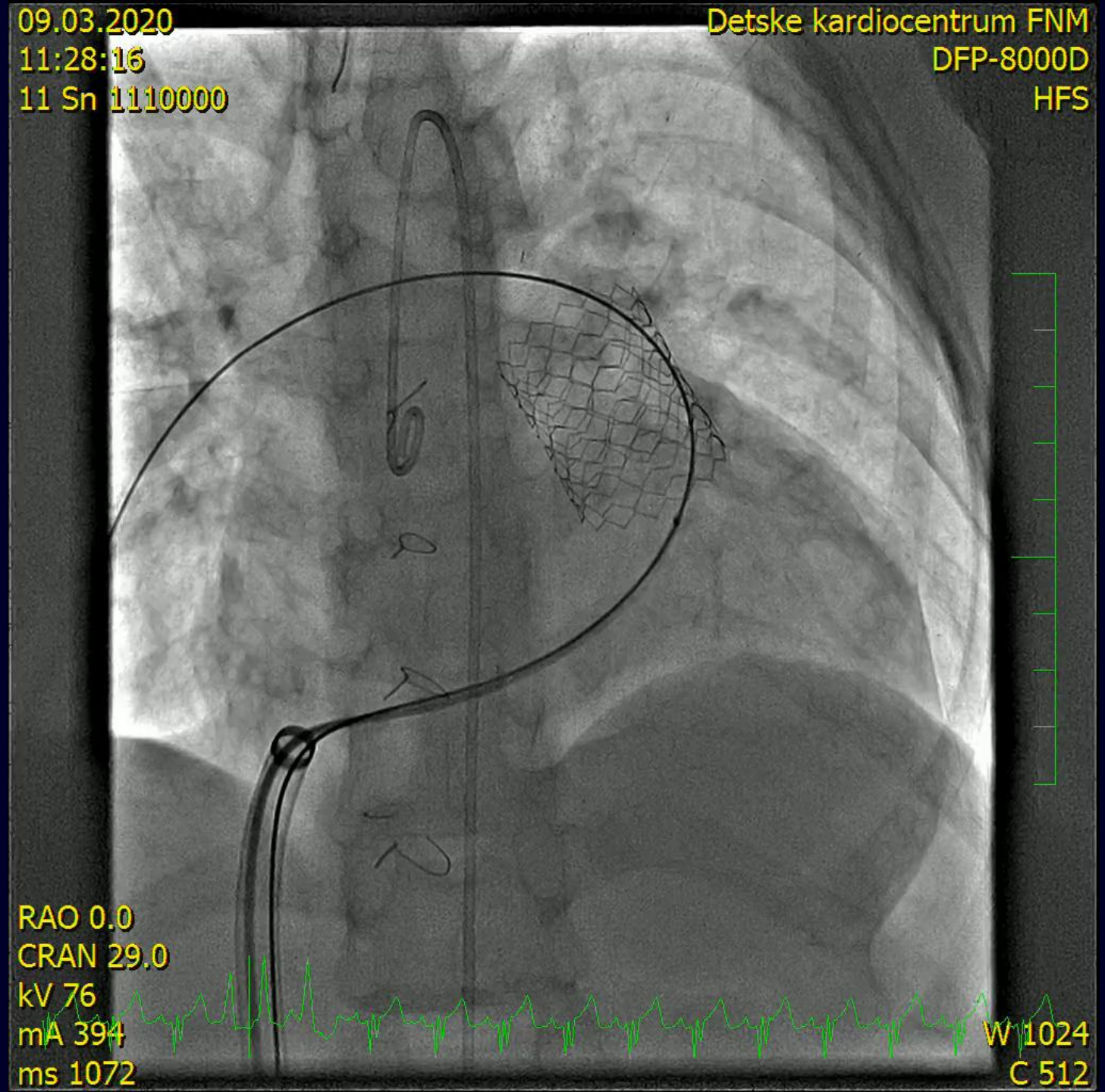
Fallotova tetralogie po transventrikulární korekci

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HFS
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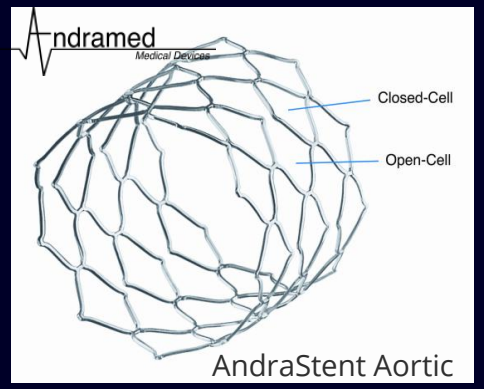
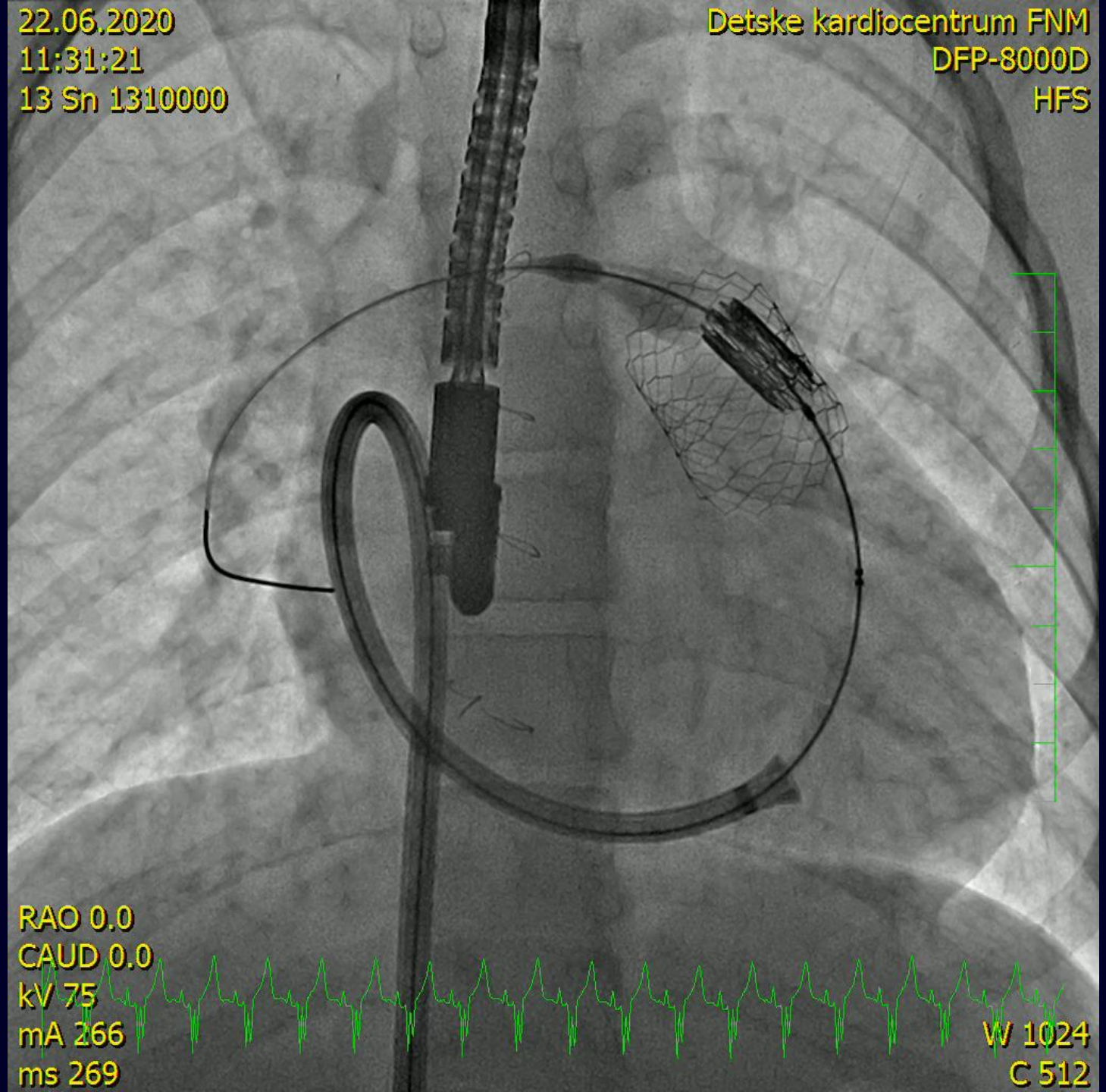
mA 394
ms 1072
W 1024
C 512


ndramed
Medical Devices
Closed-Cell
Open-Cell
AndraStent Aortic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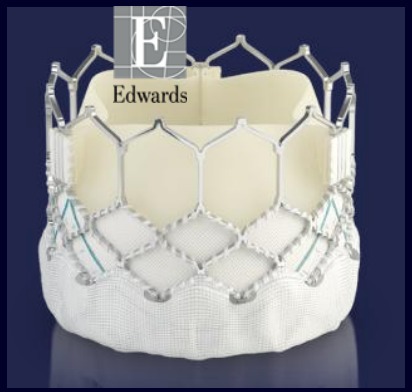
C 512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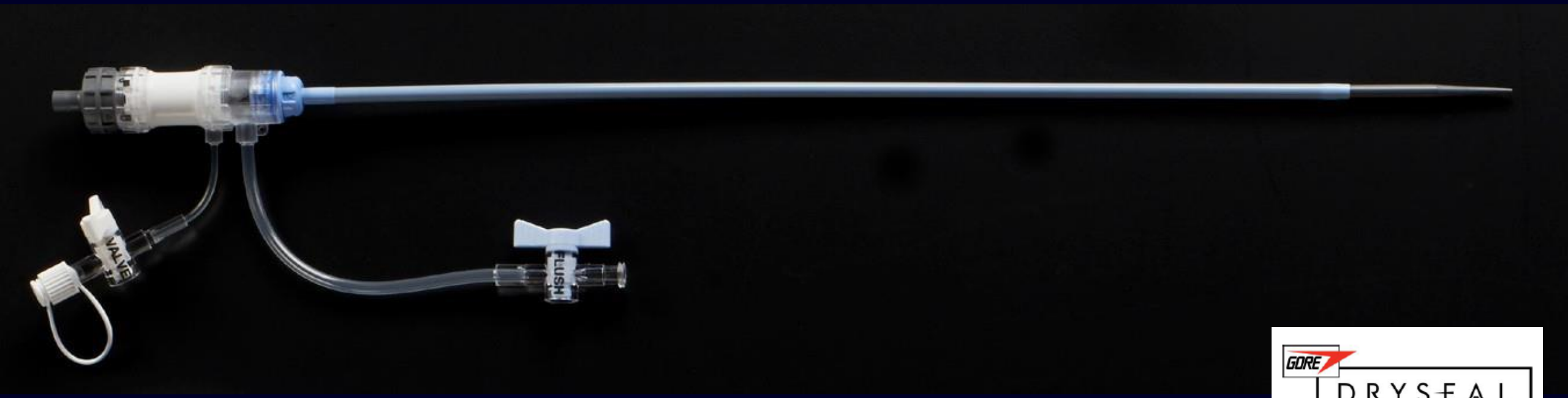


GORE

DRYSEAL

FLEX

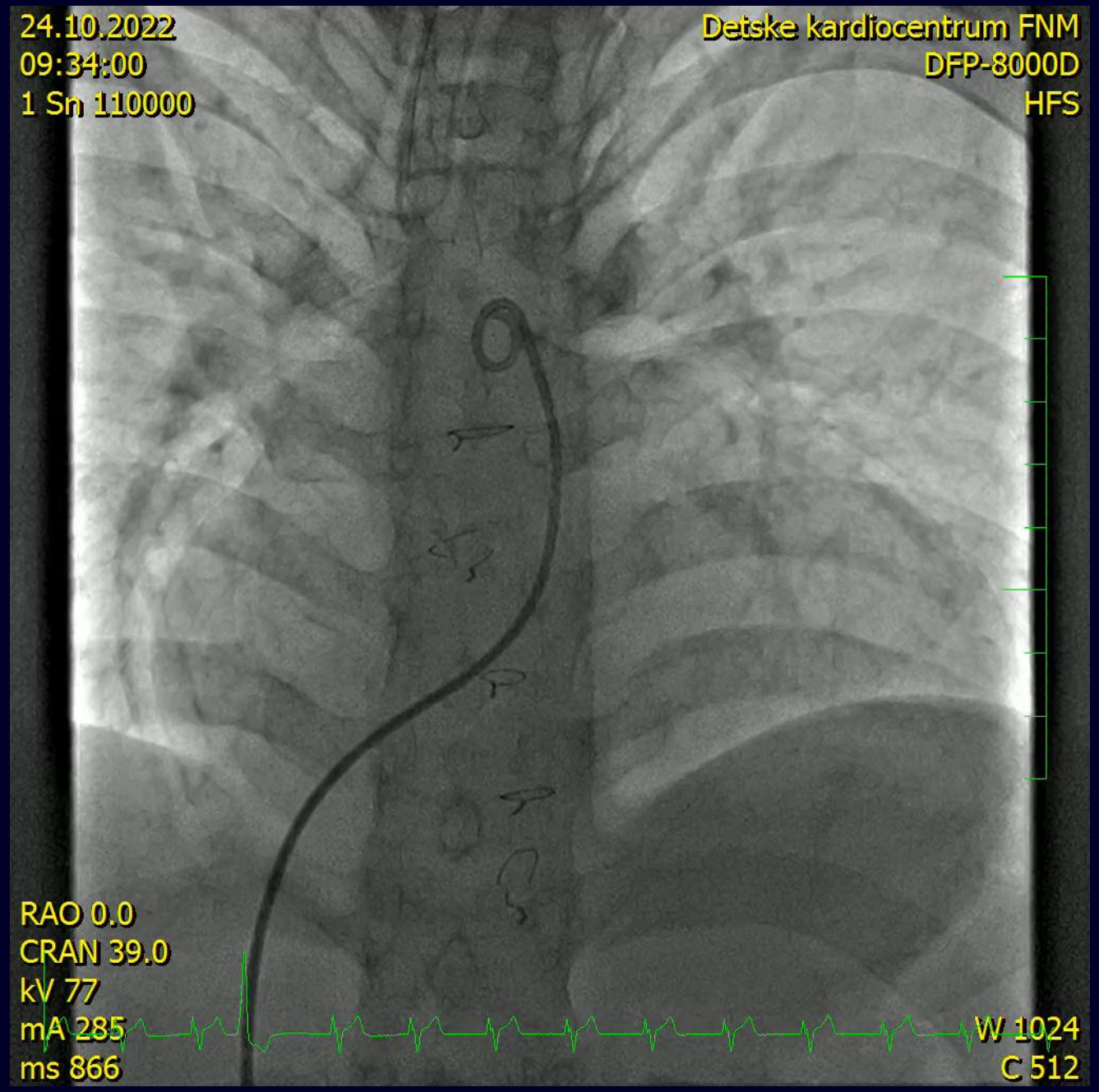
INTRODUCER SHEATH

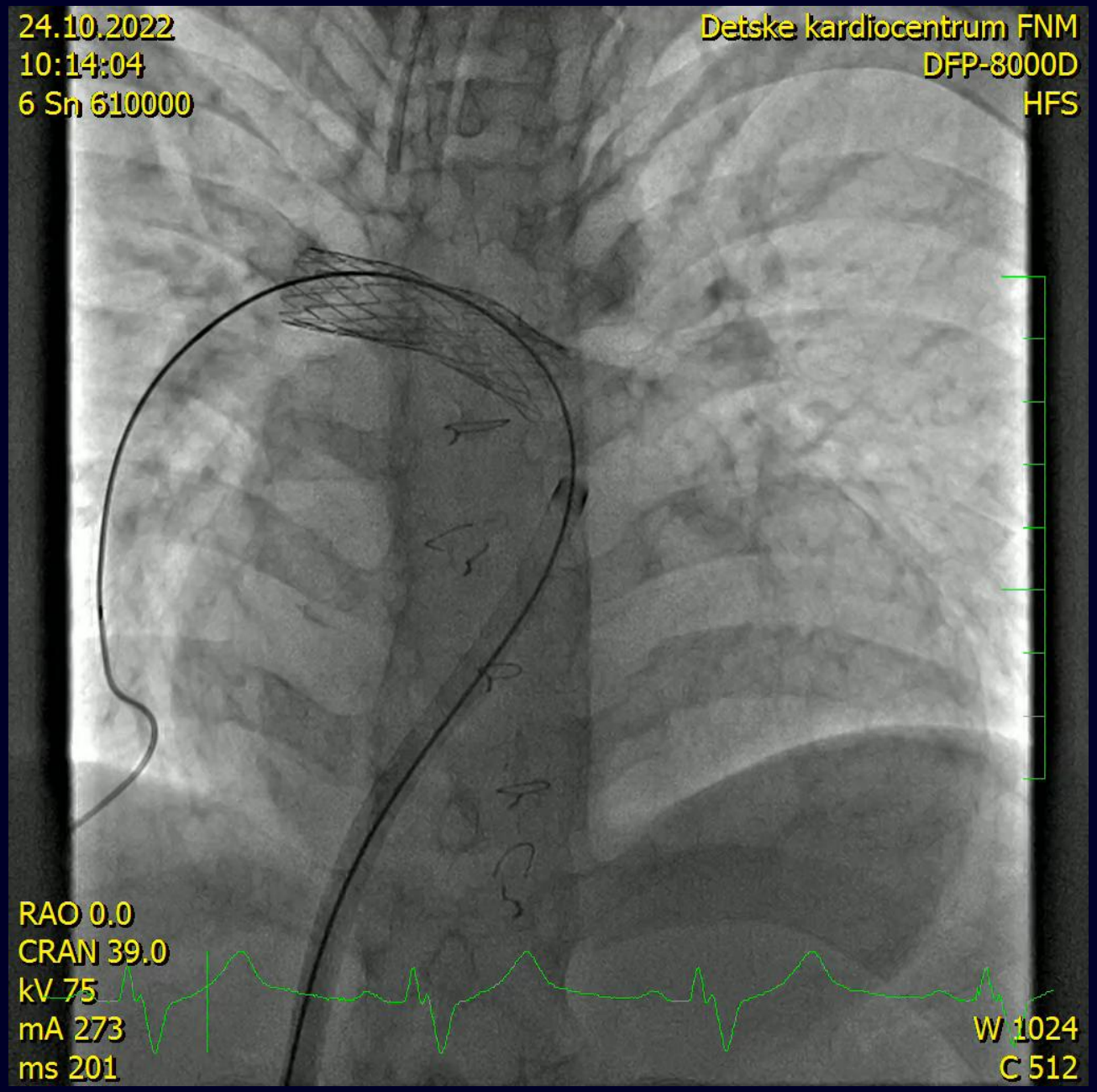
Morgan GJ, Sadeghi S, Salem MM, Wilson N, Kay J, Rothman A, Galindo A, Martin MH, Gray R, Ross M, Aboulhosn JA, Levi DS.
SAPIEN valve for percutaneous transcatheter pulmonary valve replacement without "pre-stenting": A multi-institutional experience.
Catheter Cardiovasc Interv. 2019 Feb 1;93(2):324-329.

Tanase D, Georgiev S, Eicken A, Ewert P.
The Sapien valve provides enough grip to be implanted in pulmonary position without a pre-stent.
Cardiovasc Diagn Ther. 2019 Oct;9(Suppl 2):S264-S268.

Fallotova tetralogie
trans-anulární
plastika s použitím
monocuspu

Bifurkační stenóza
Poměr RV/AF = 1.0

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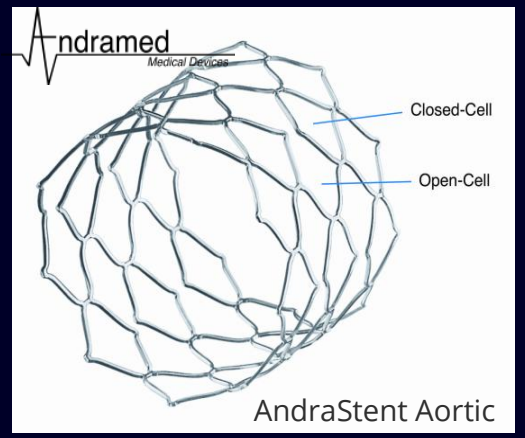
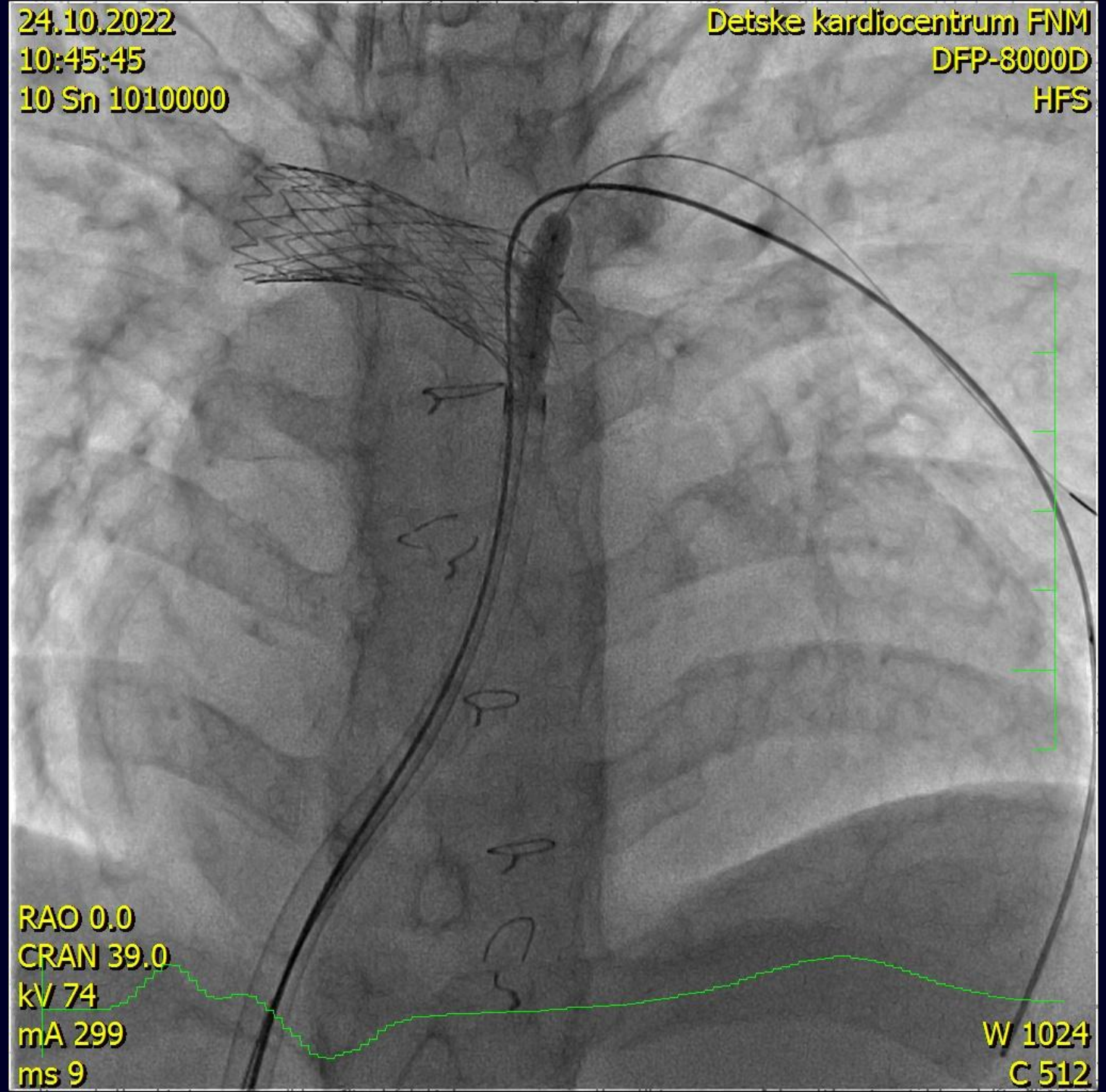
W 1024
C 512


Andramed
Medical Devices
Closed-Cell
Open-Cell
AndraStent Aortic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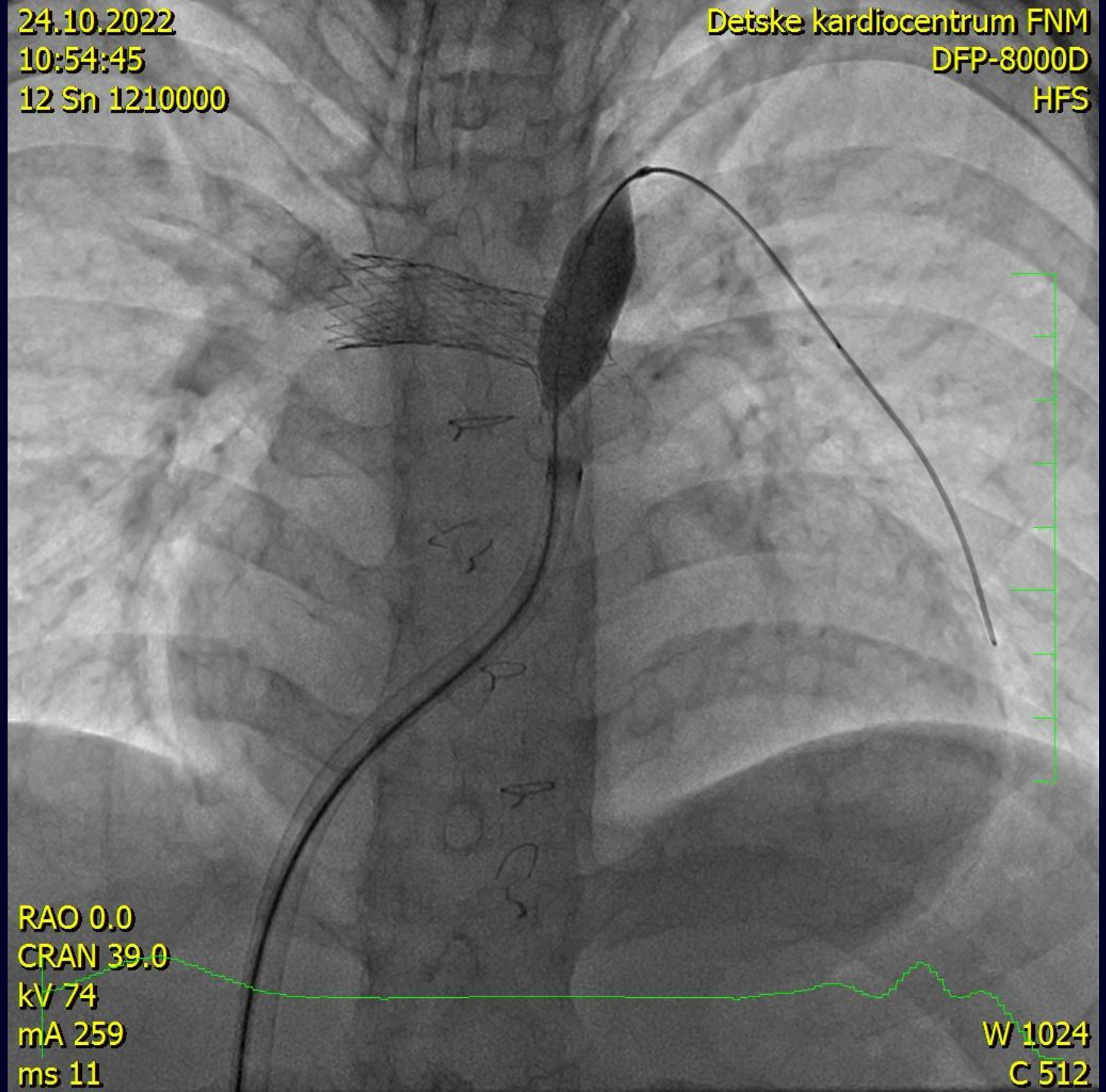
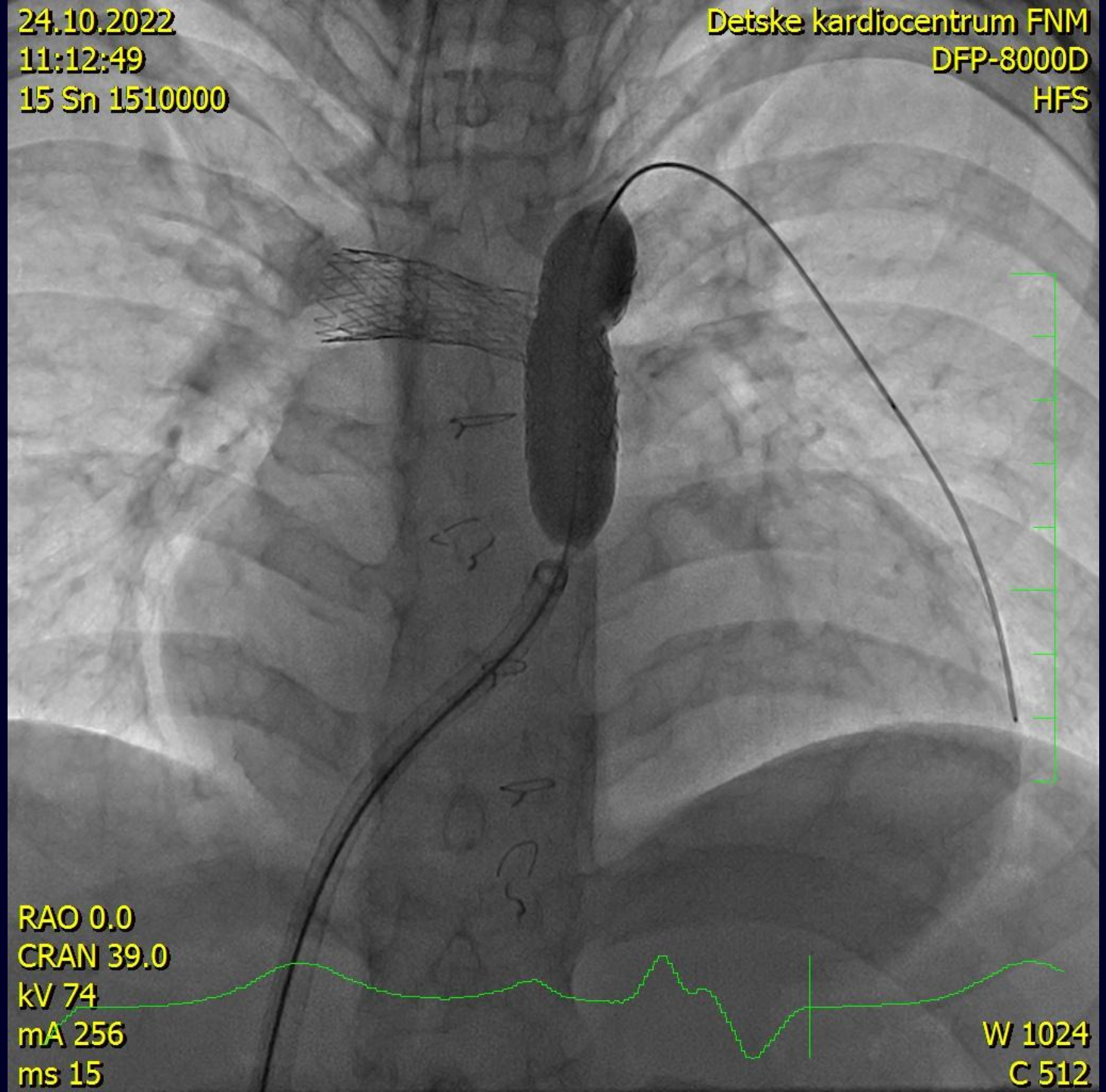
ms 9
W 1024
C 512



Atlas™ Gold PTA Dilatation Catheter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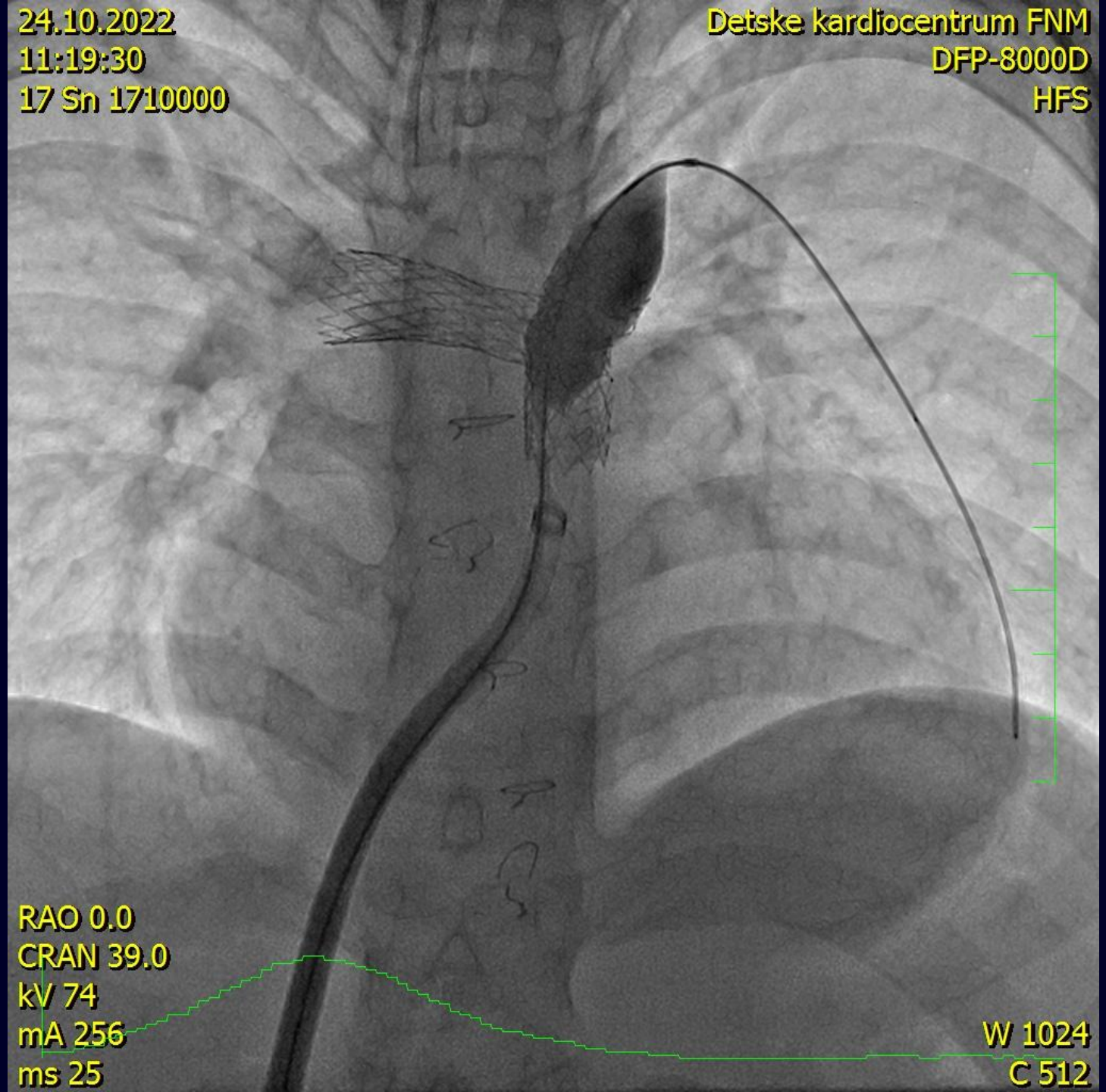
C 512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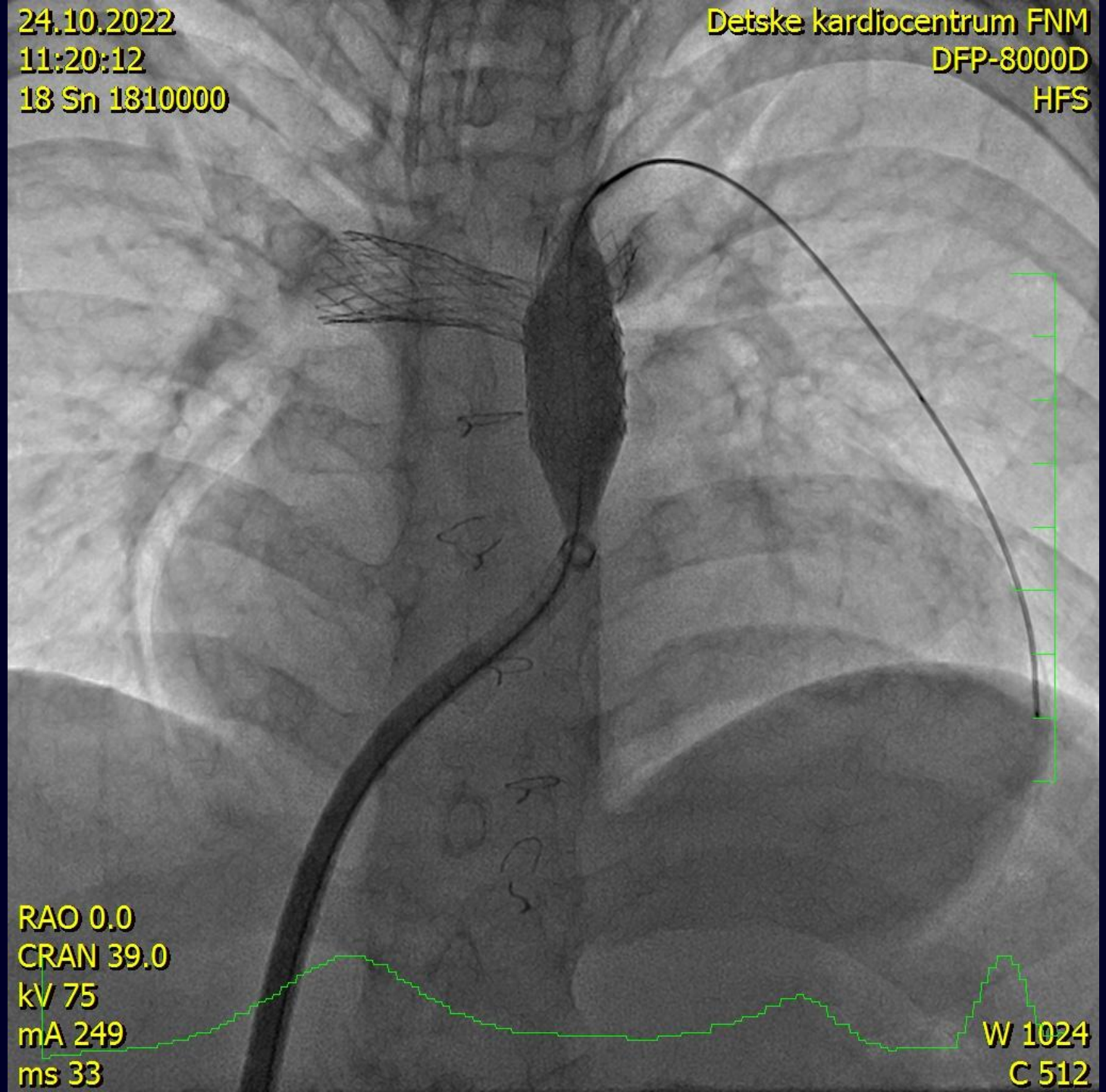
ms 25
W 1024
C 512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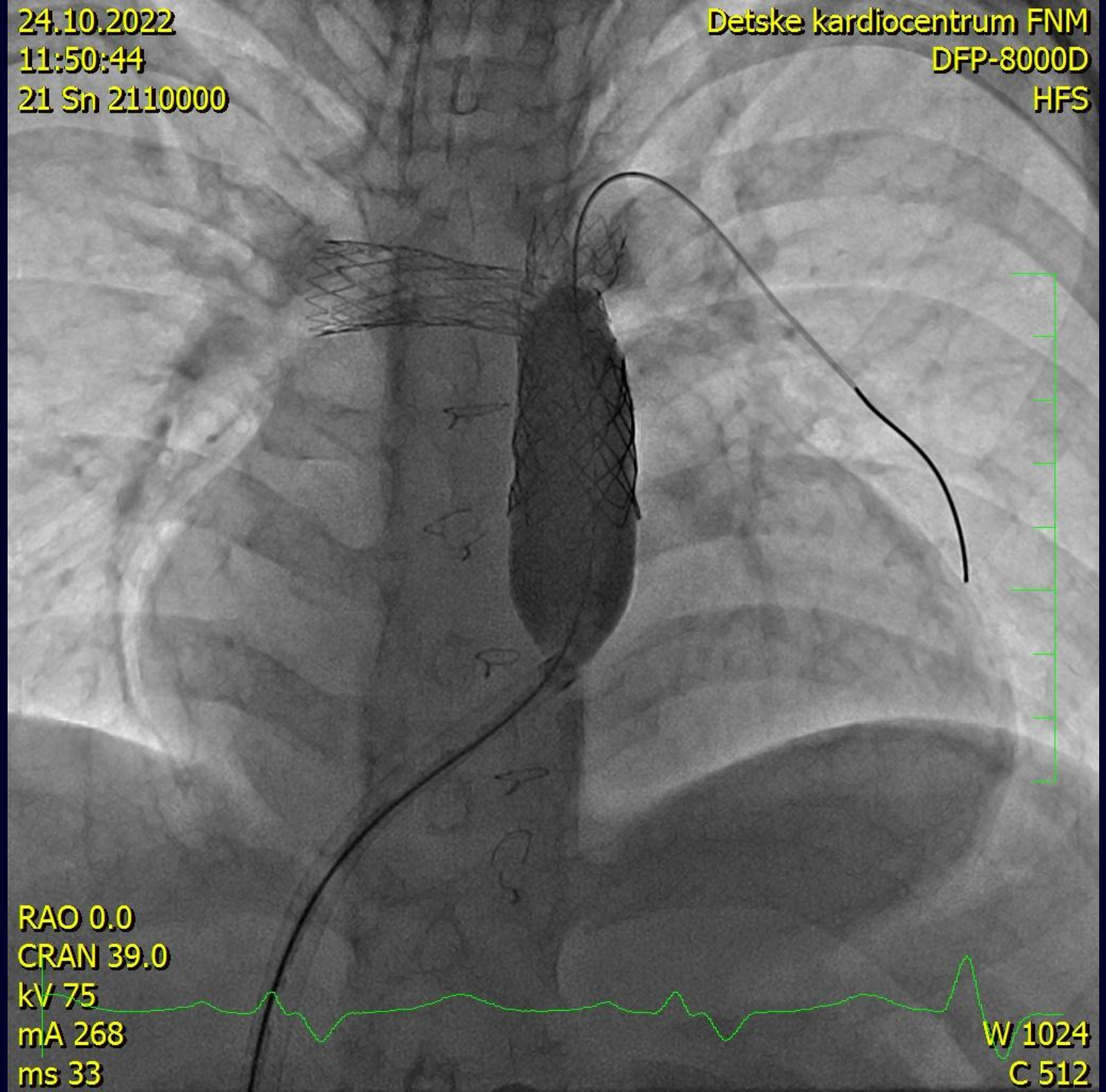
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DFP-8000D
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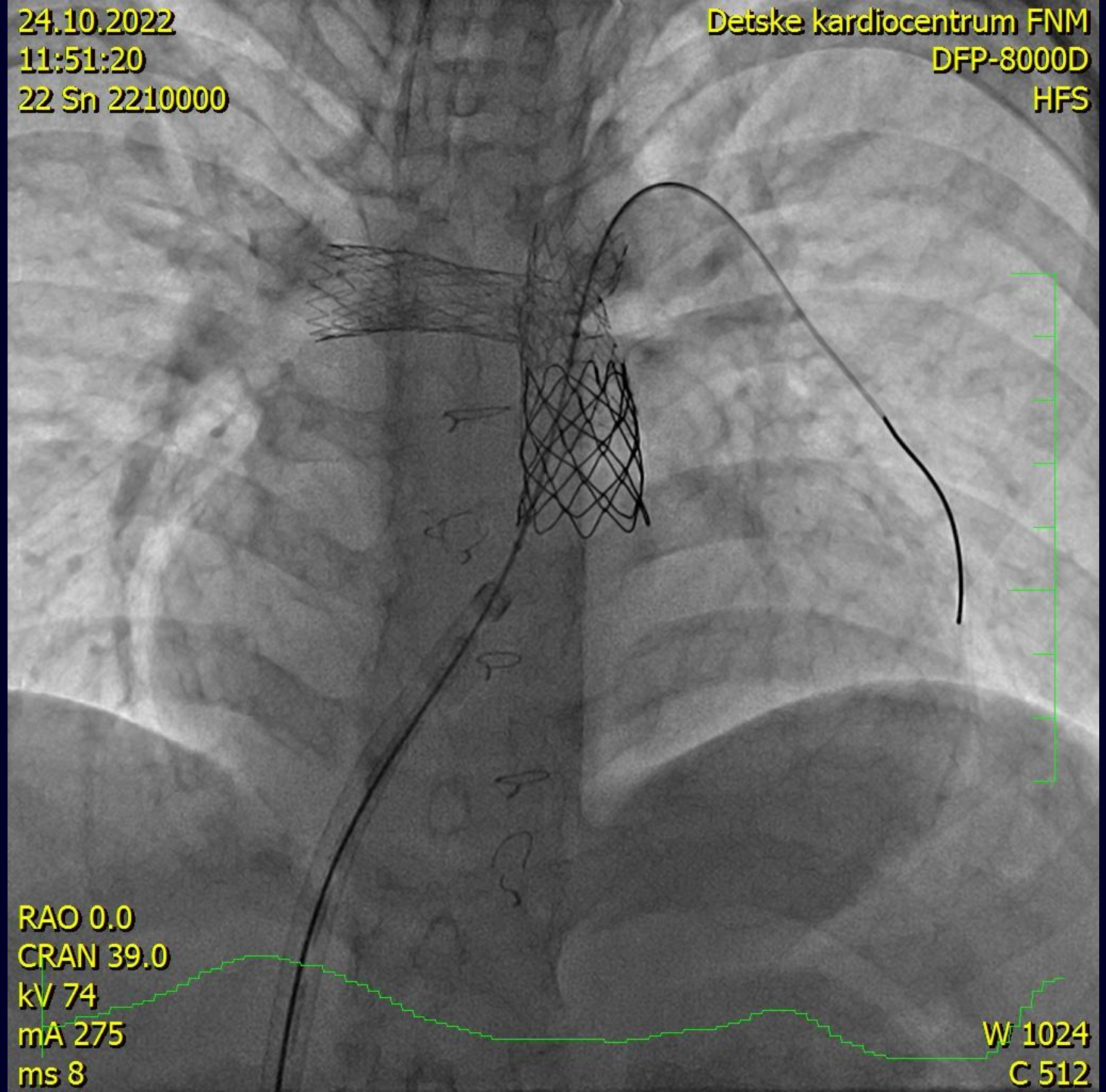
C 512

NuMED
For Children
Covered CP
Stent™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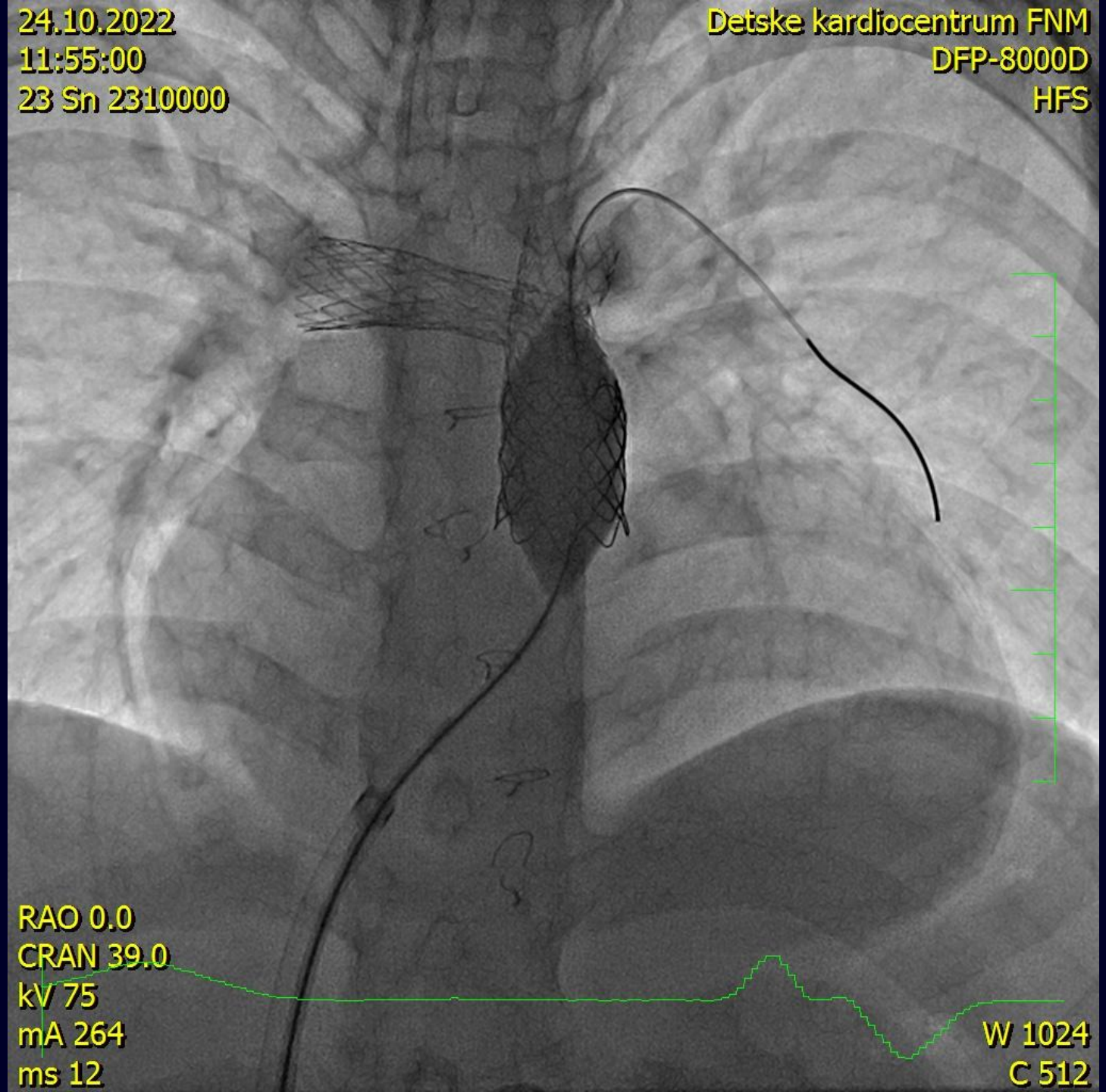
W 1024
C 512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HFS
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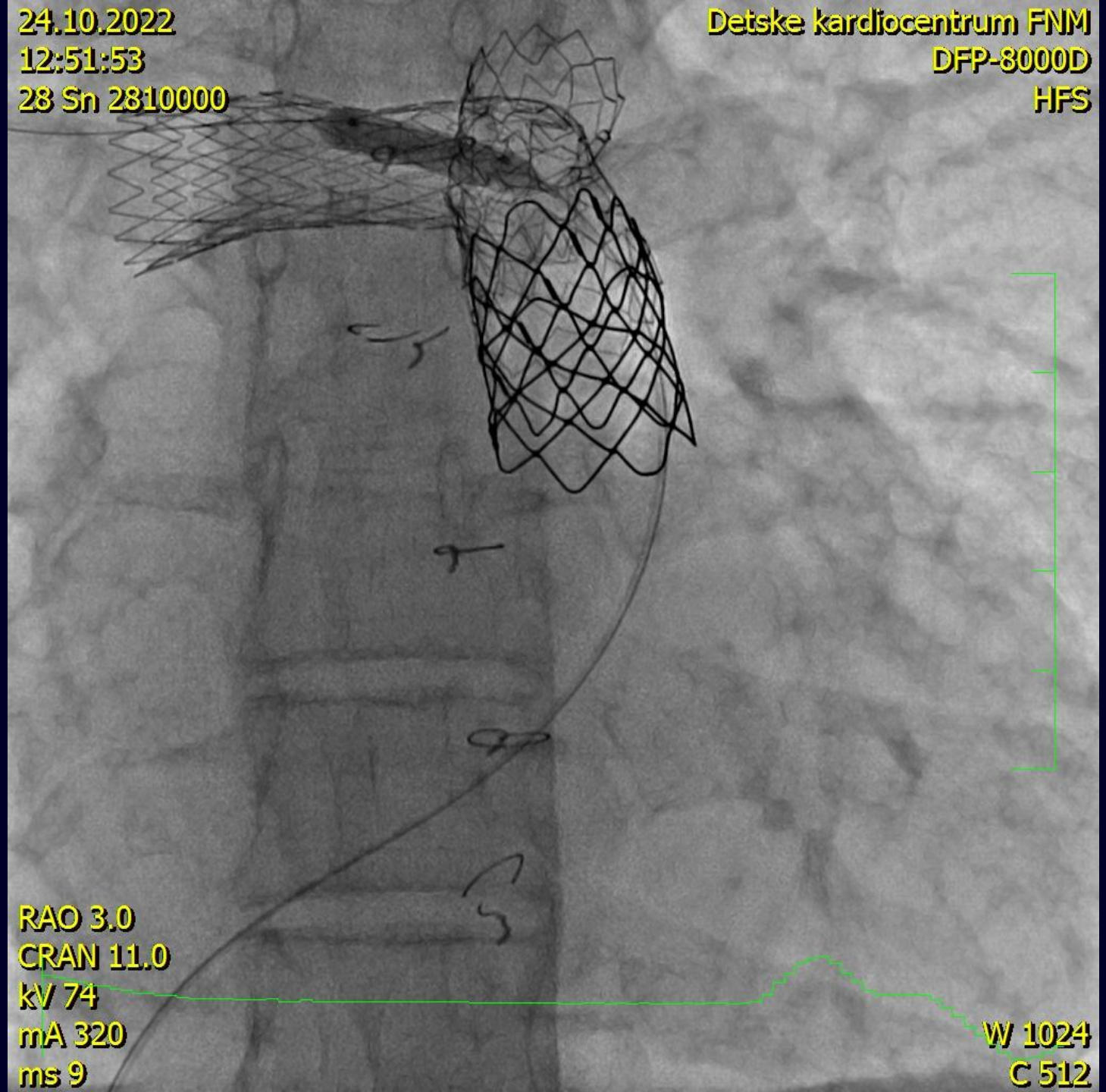
C 512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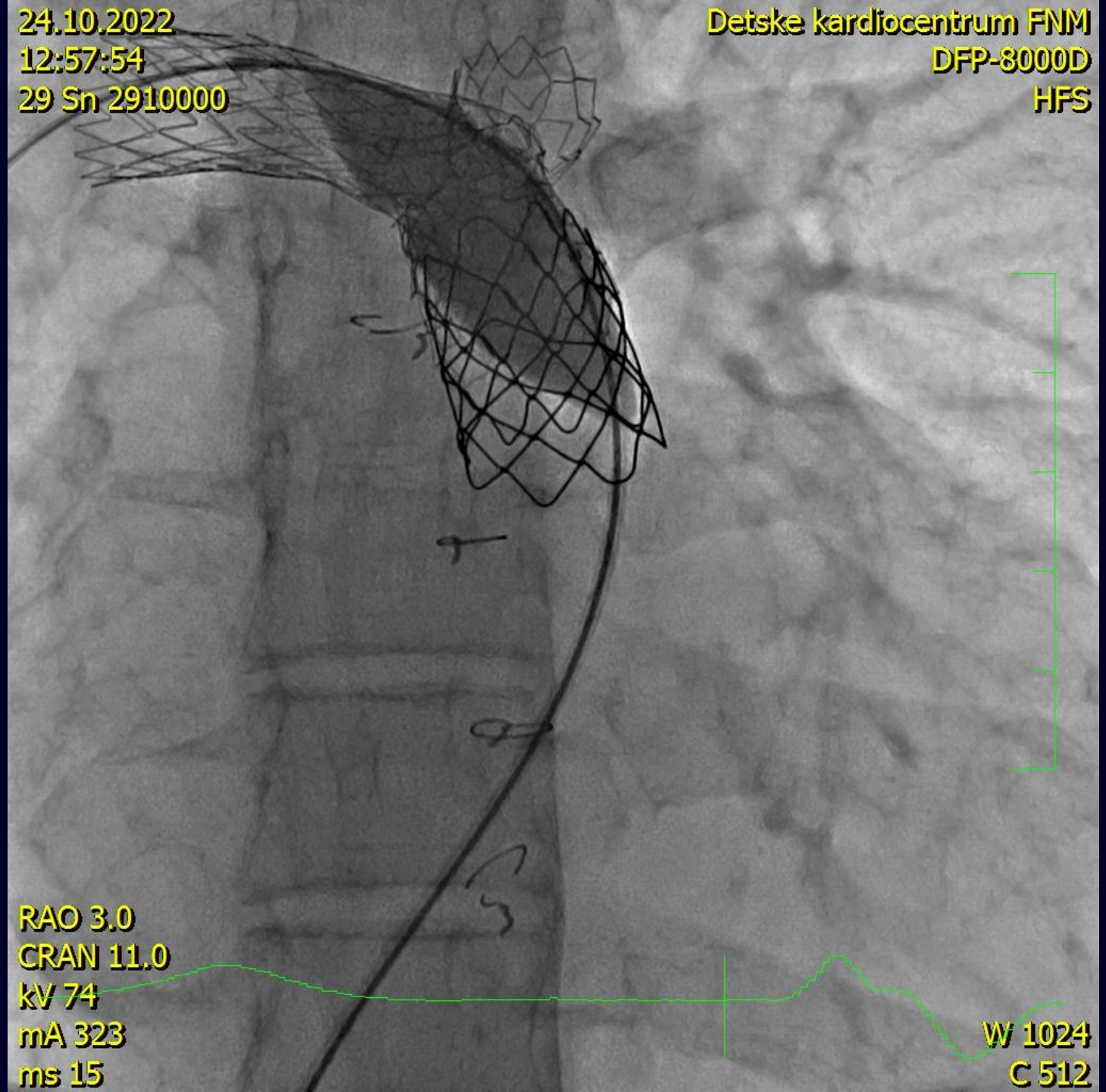
W 1024
C 512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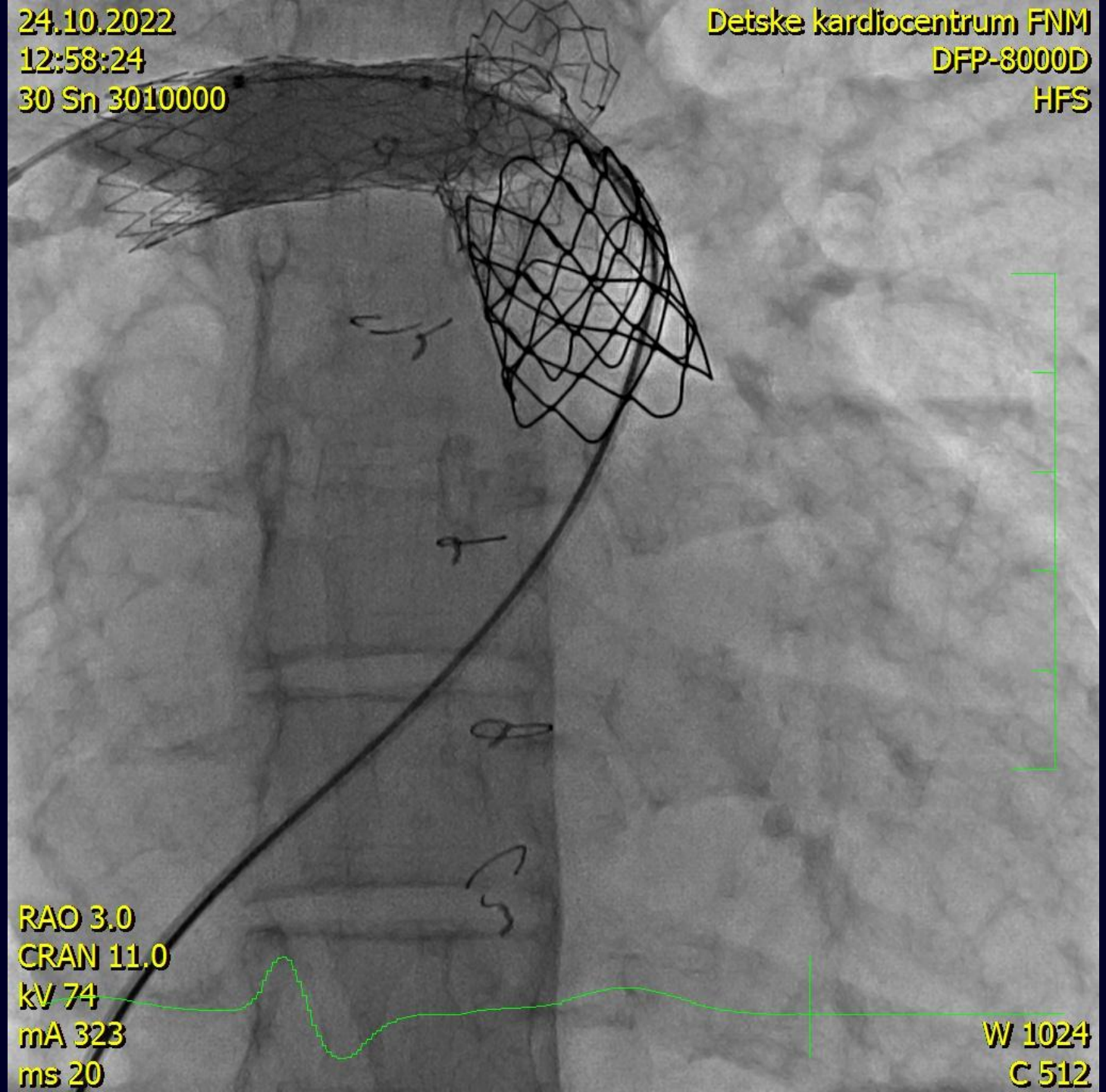
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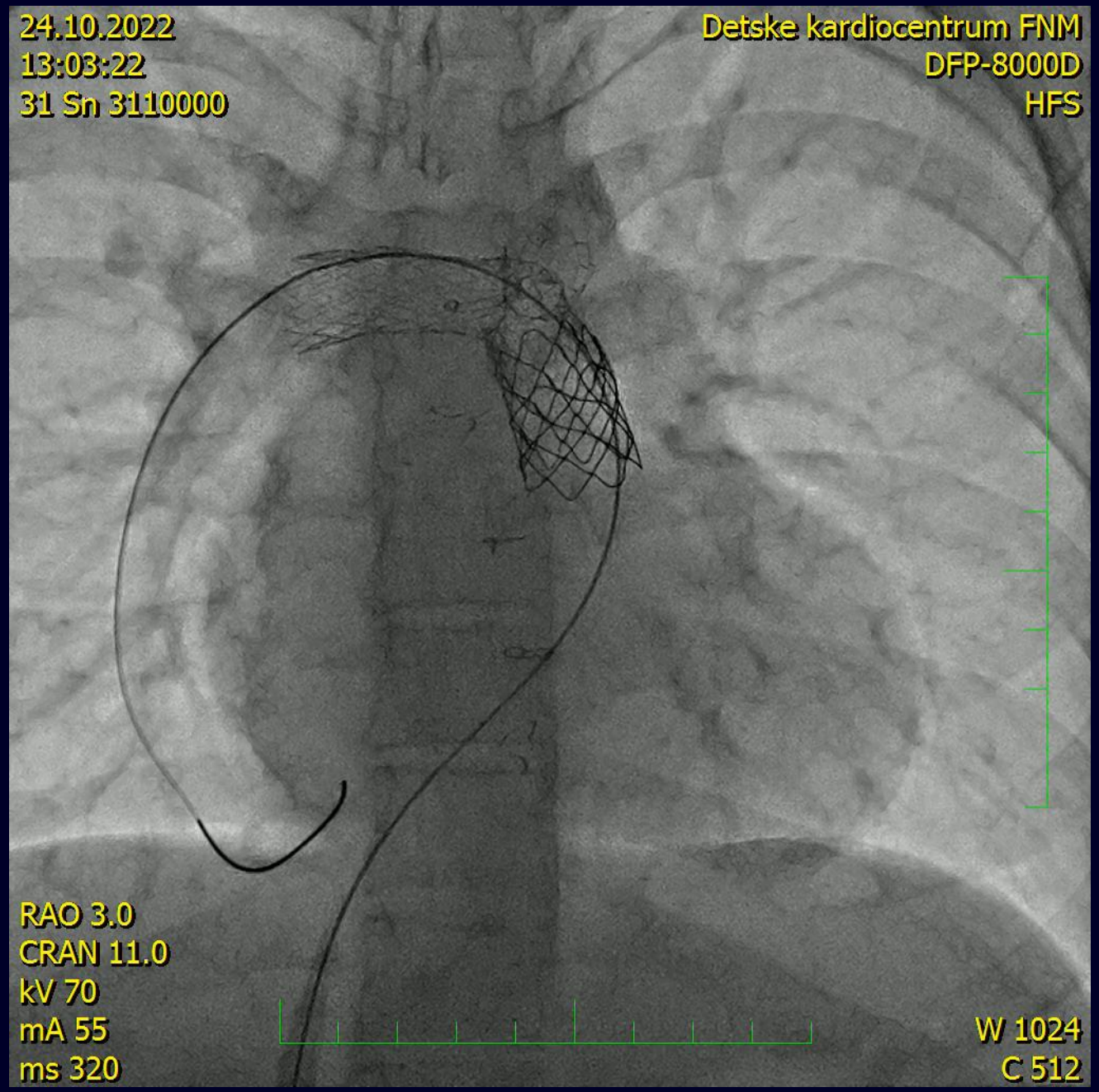
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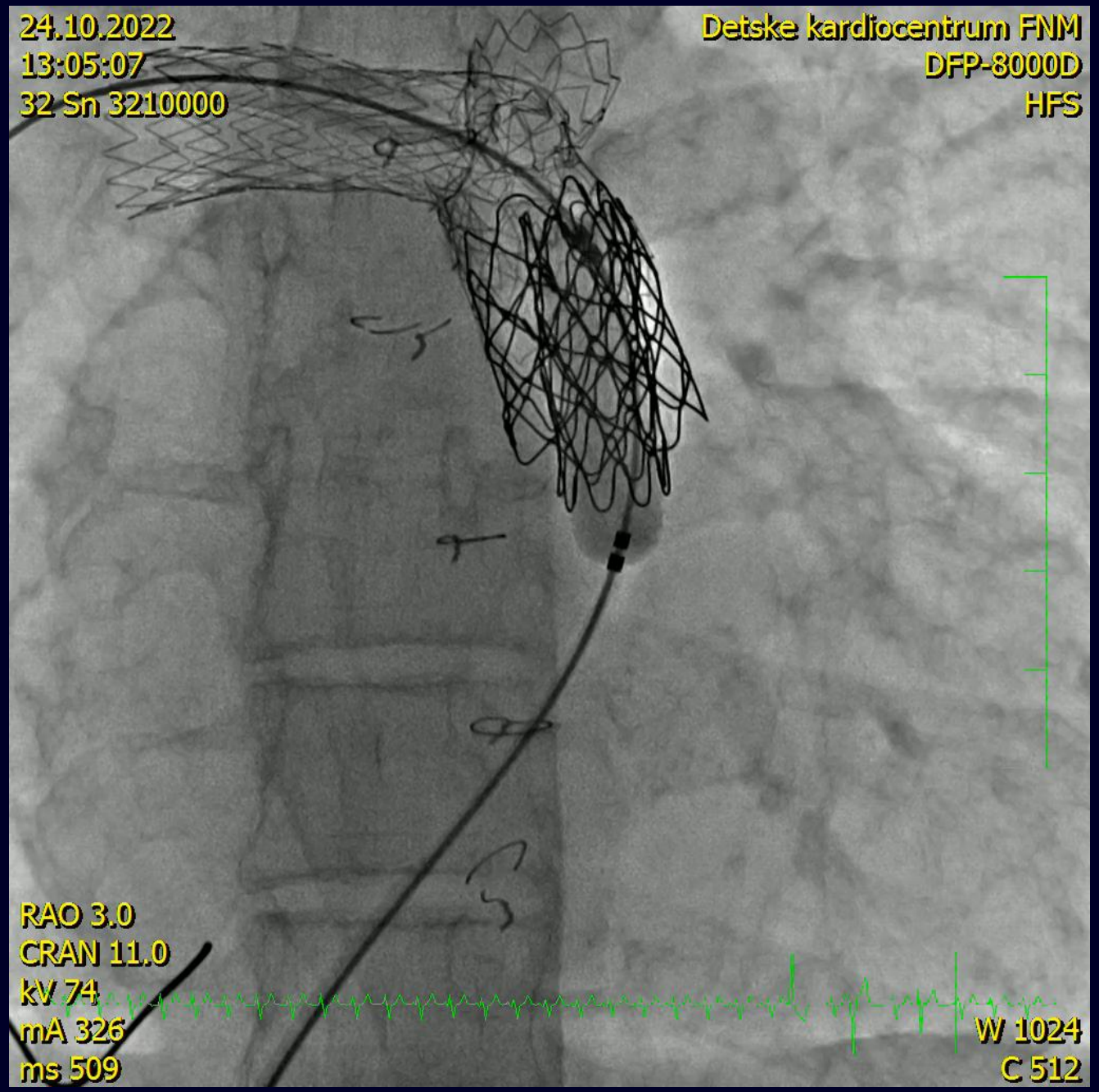
W 1024
C 512

Medtronic

Melody™
TPV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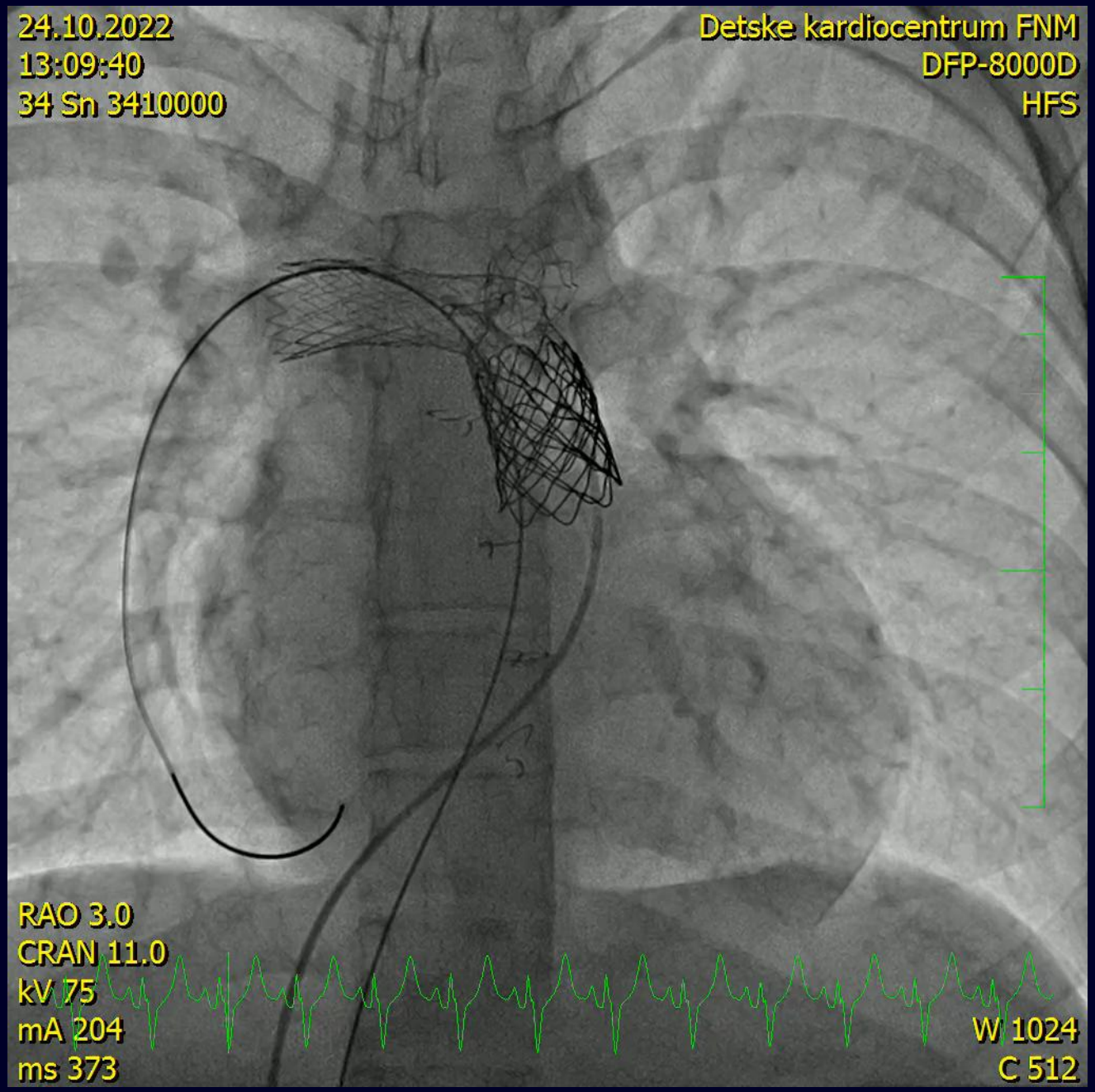
C 512

Medtronic

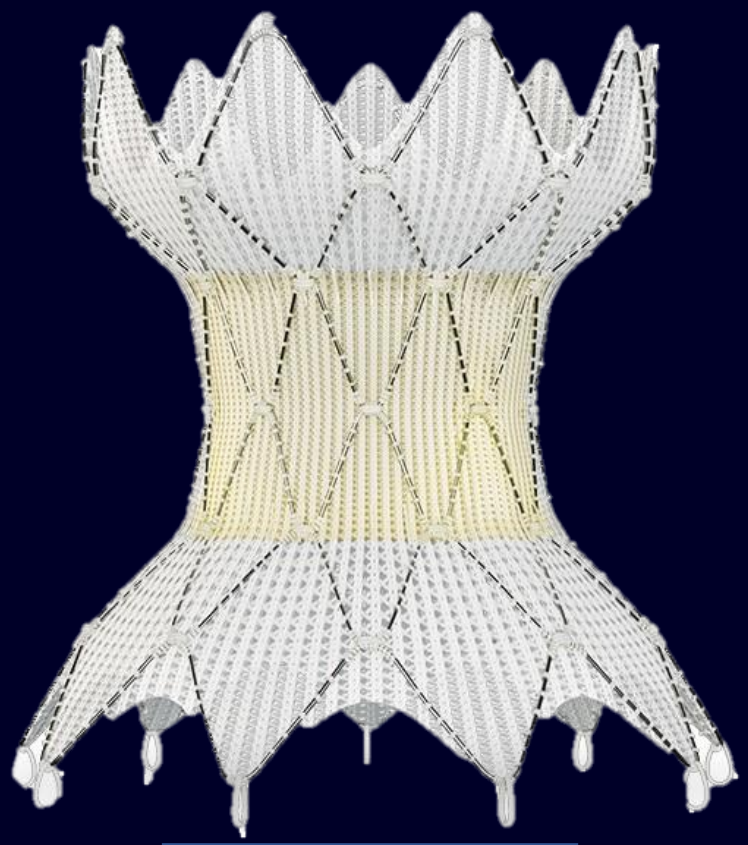
Melody™
TPV

Poměr RV/AF = 0.37



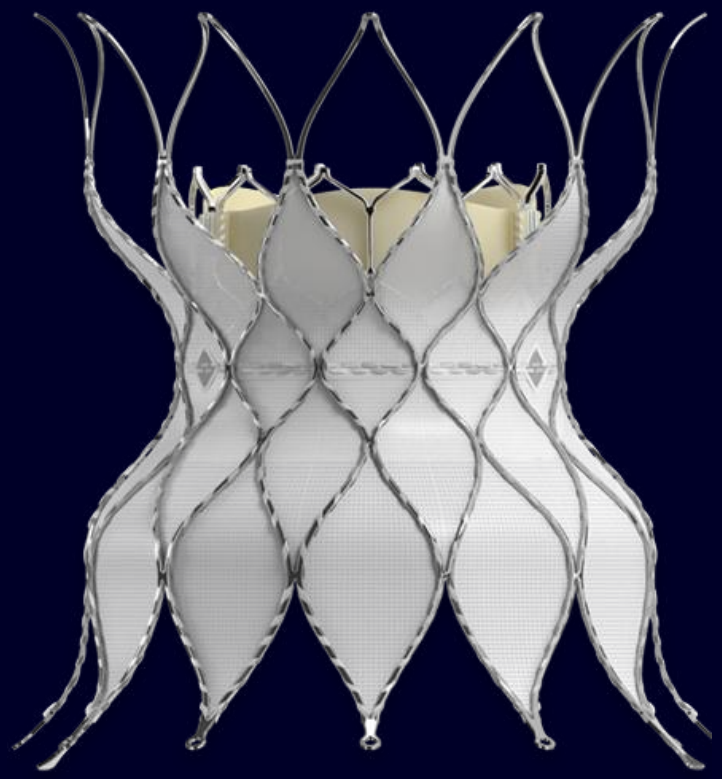
Melody™
TPV

Harmony TPV 25



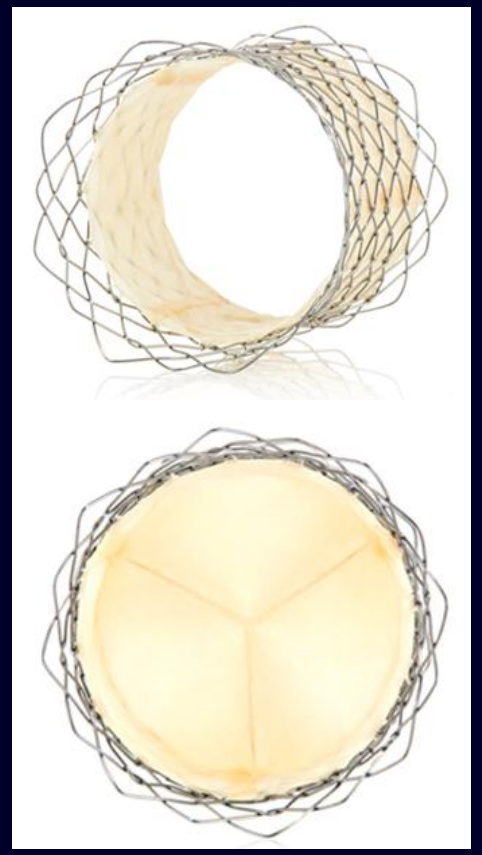
Medtronic

Alterra adaptive prestent



Edwards

Pulsta Valve



TaeWoong MEDICAL

TOSHIBA