

Novosti v kardiologiji

Peter Radšel, KOIIM

Oktober 2019

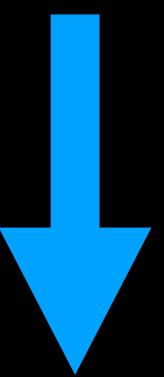


preventivna kardiologija
akutna kardiologija
nepredovalo srčno popuščanje
valvularne bolezni
kongenitalne bolezni
žilne bolezni
aritmologija
elektrostimulacija
intervencijska kardiologija
arterijska hipertenzija
ehokardiografija
“kardio imaging”

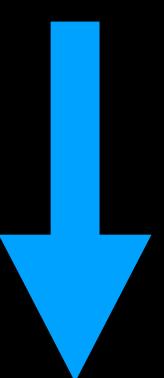
Janez Nesreča, 40 let



3 dni občasno bolečina v prsih



IPP - NSTE AKS



KO za kardiologijo

predviden za koronarografijo naslednji dop





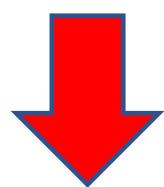
European Society
of Cardiology

European Heart Journal (2018) 00, 1–33
doi:10.1093/eurheartj/ehy462

EXPERT CONSENSUS DOCUMENT

Fourth universal definition of myocardial infarction (2018)

POŠKODBA MIOKARDA ≠ MIOKARDNI INFARKT ≠ AKUTNI KORONARNI SINDROM



cTn nad 99 percentilo



znaki ishemije:

- simptomi
- EKG spremembe
- spremembe pri slikovni diagnostiki



koronarna tromboza

tip 1

AKS

tip 2

poraba O_2 > dobave

tip 3

nenadna smrt

tip 4

a – nativna kor.
b – stent tr.
c – stent rest.

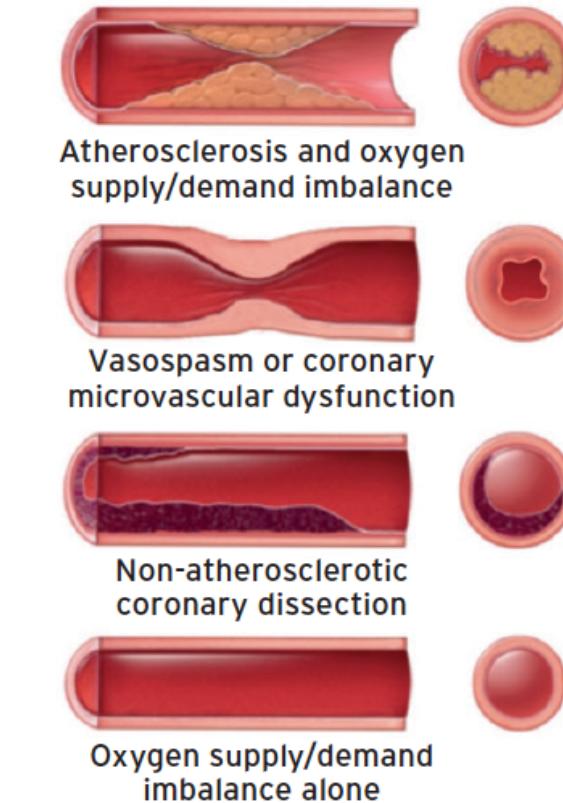
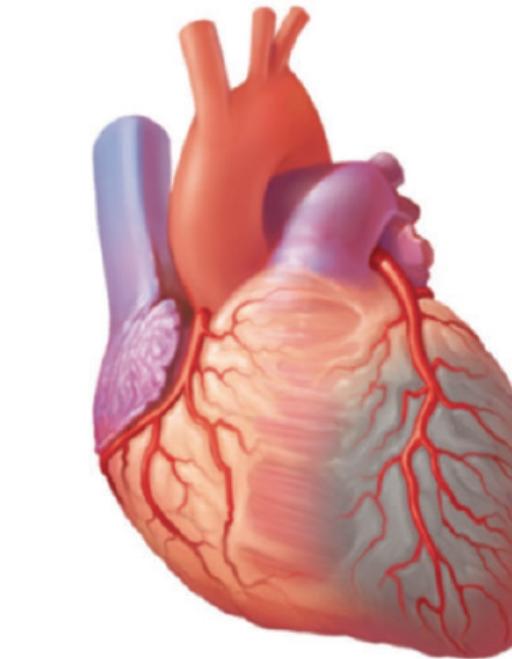
s PCI povezan

tip 5

s CABG povezan,
TAVI,...

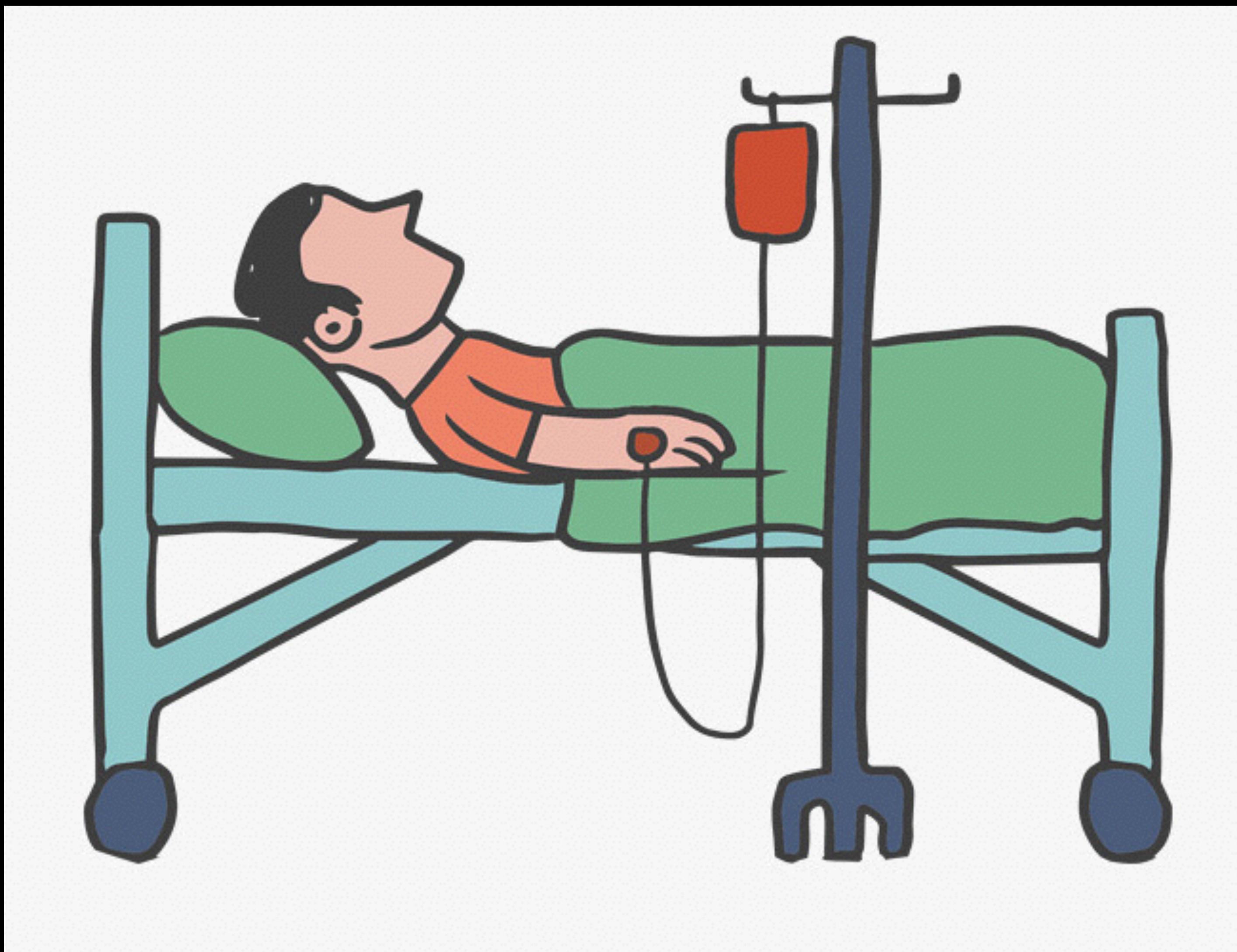
STEMI
NSTE - AKS

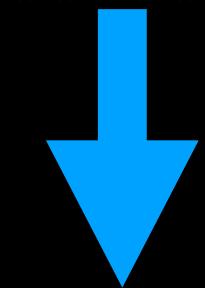
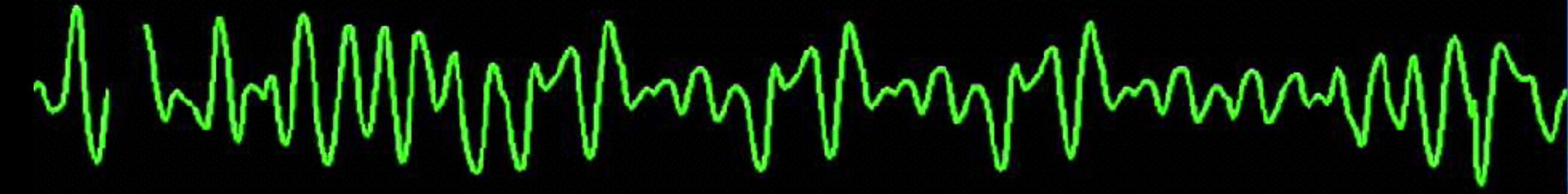
Myocardial Infarction Type 2



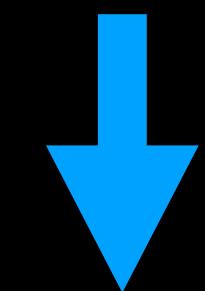
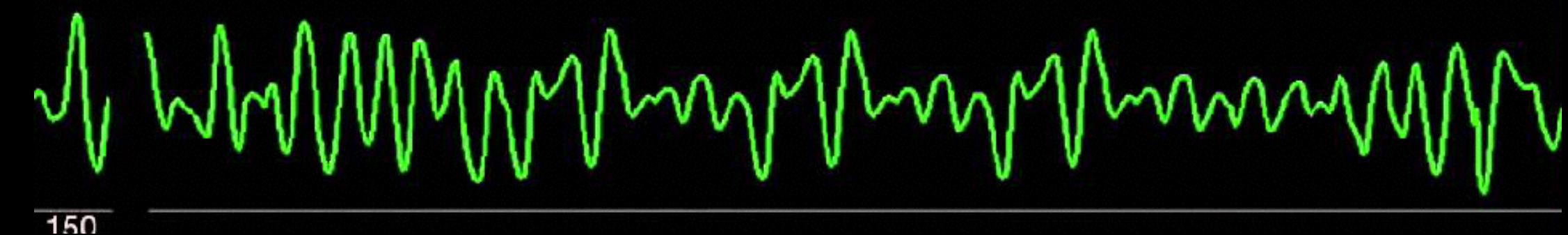
> 5 x zg. meja (>20% porast)
+ EKG, slikovne spr.

> 10 x zg. meja (>20% porast)

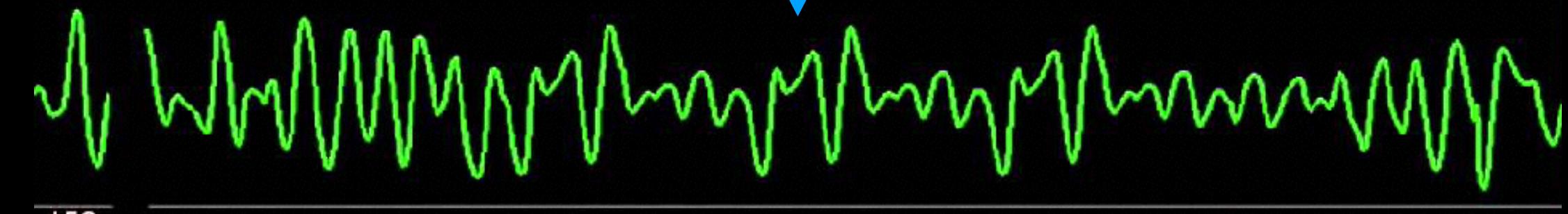
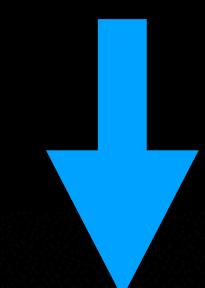




3 x defib



ALS 10 min



Kaj je v ozadju?

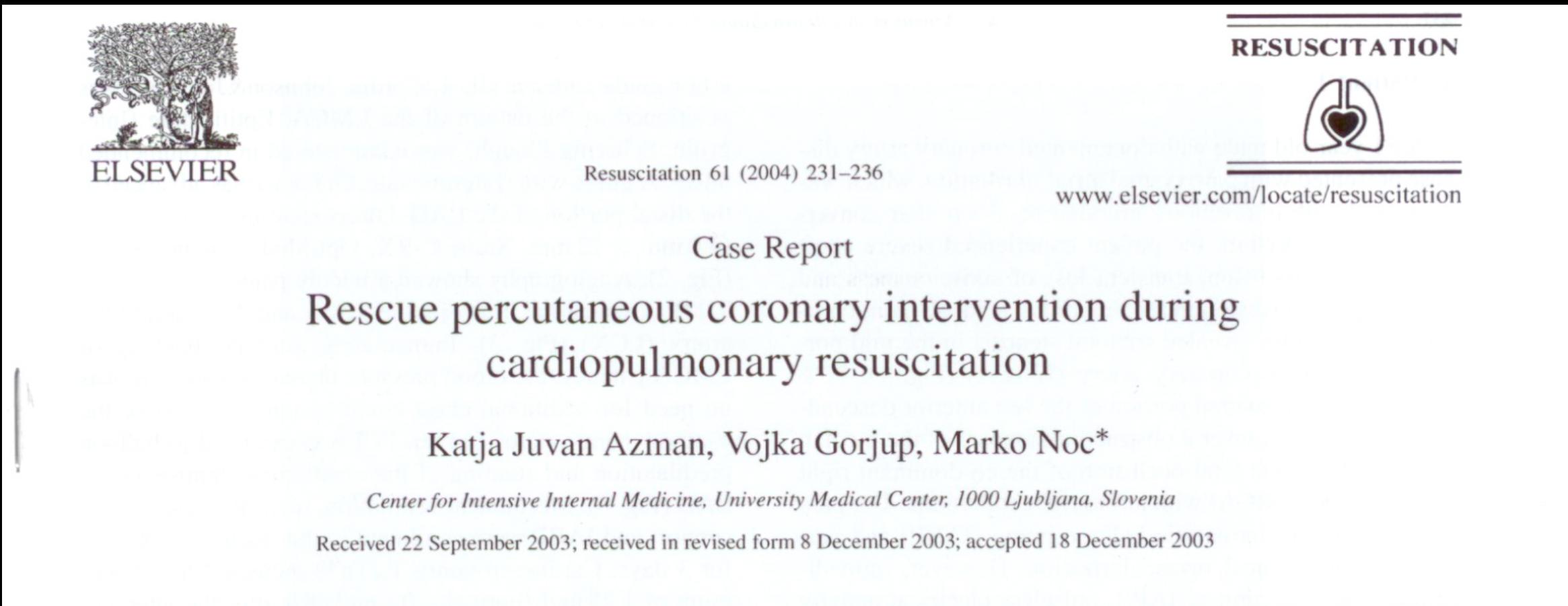


AKS



Pljučna embolija

Preteklost



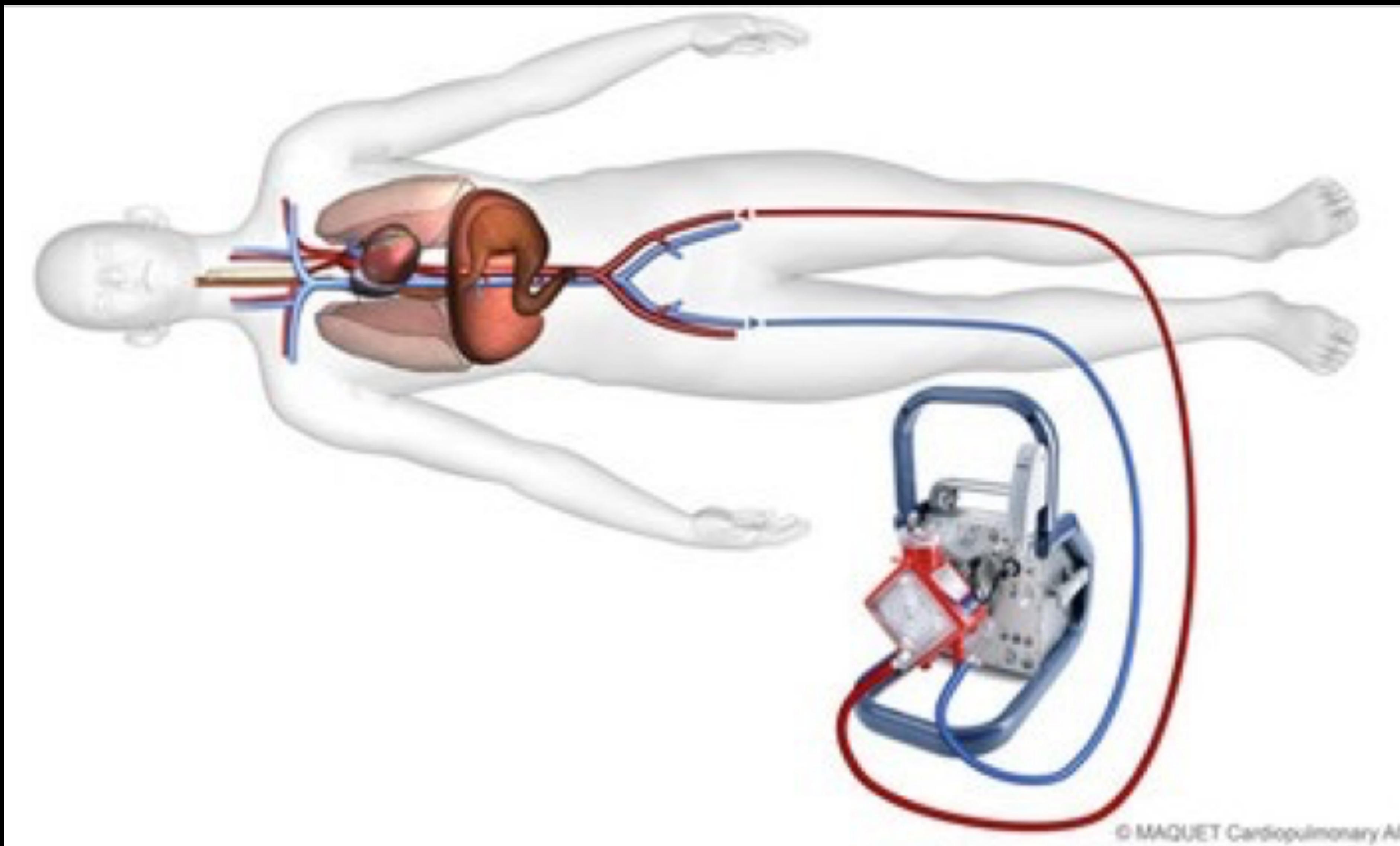
**43 bolnikov, pri 77% uspešna PCI,
26% preživetje s CPC 1-2**

Wagner H, et al. Resuscitation 2010;81:383-7

**V literaturi opisani samo uspešni
primeri;
pogosto brez ROSC tudi po odprtju
koronarne arterije!**

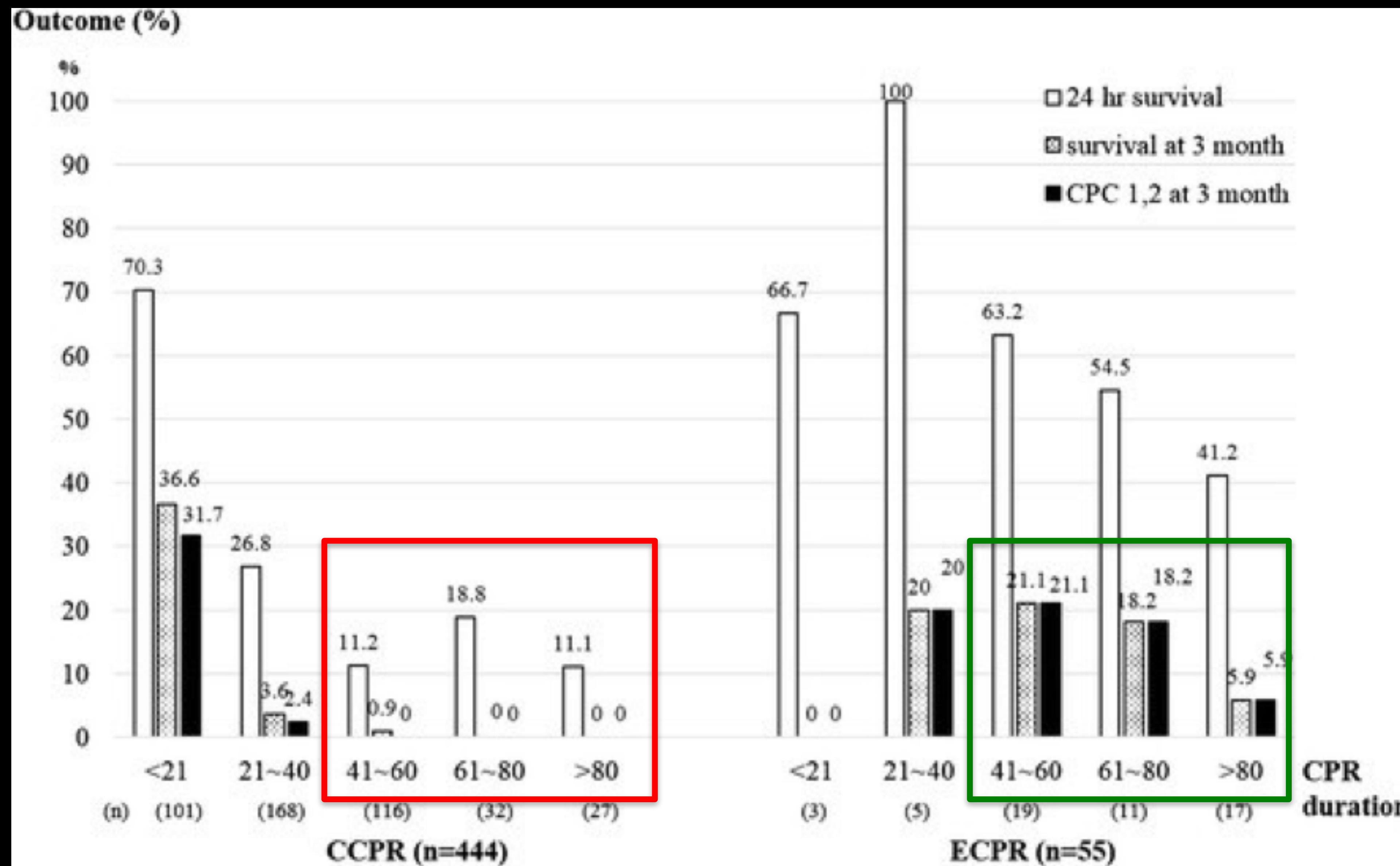


E-CPR



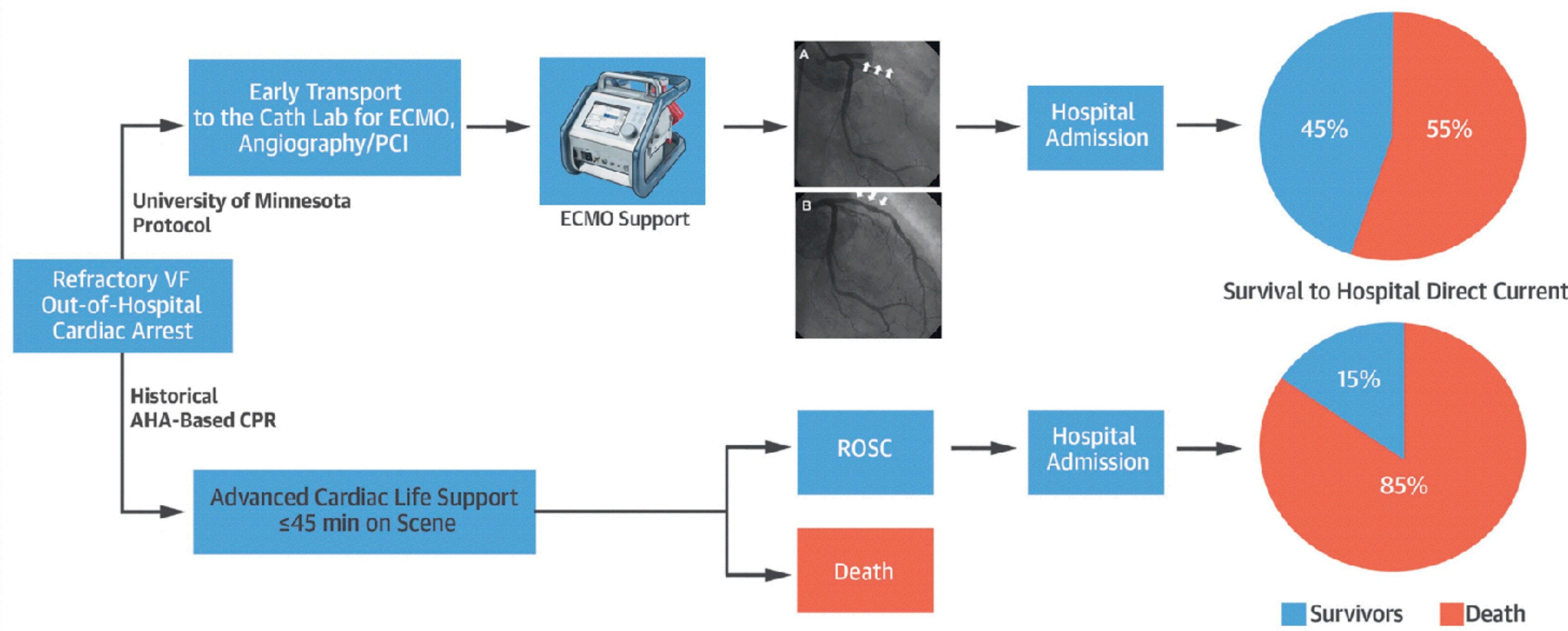
© MAQUET Cardiopulmonary AG

ECPR - podatki o preživetju

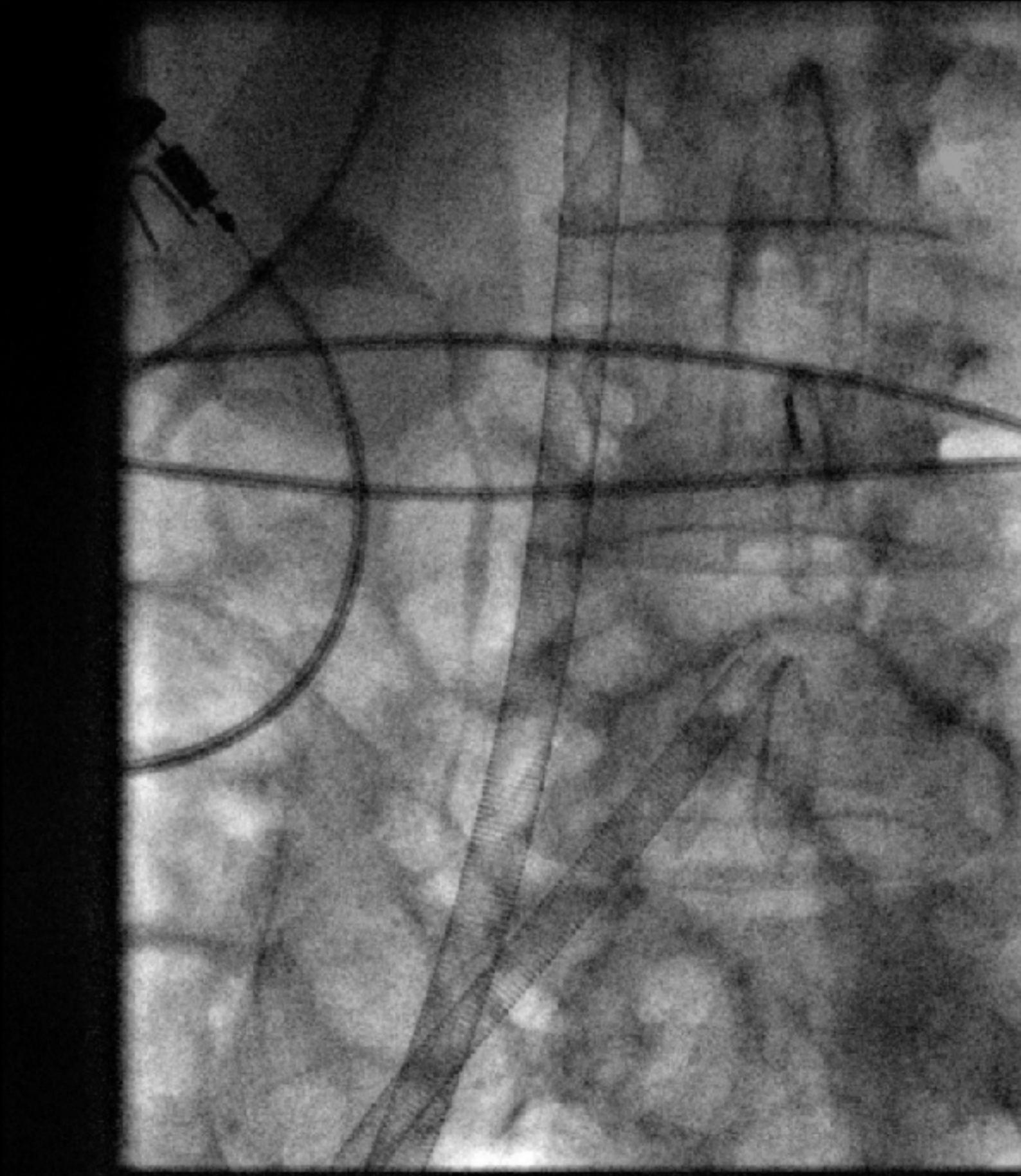




CENTRAL ILLUSTRATION: Refractory Cardiac Arrest Due to VF/VT and the University of Minnesota ECLS/PCI Protocol

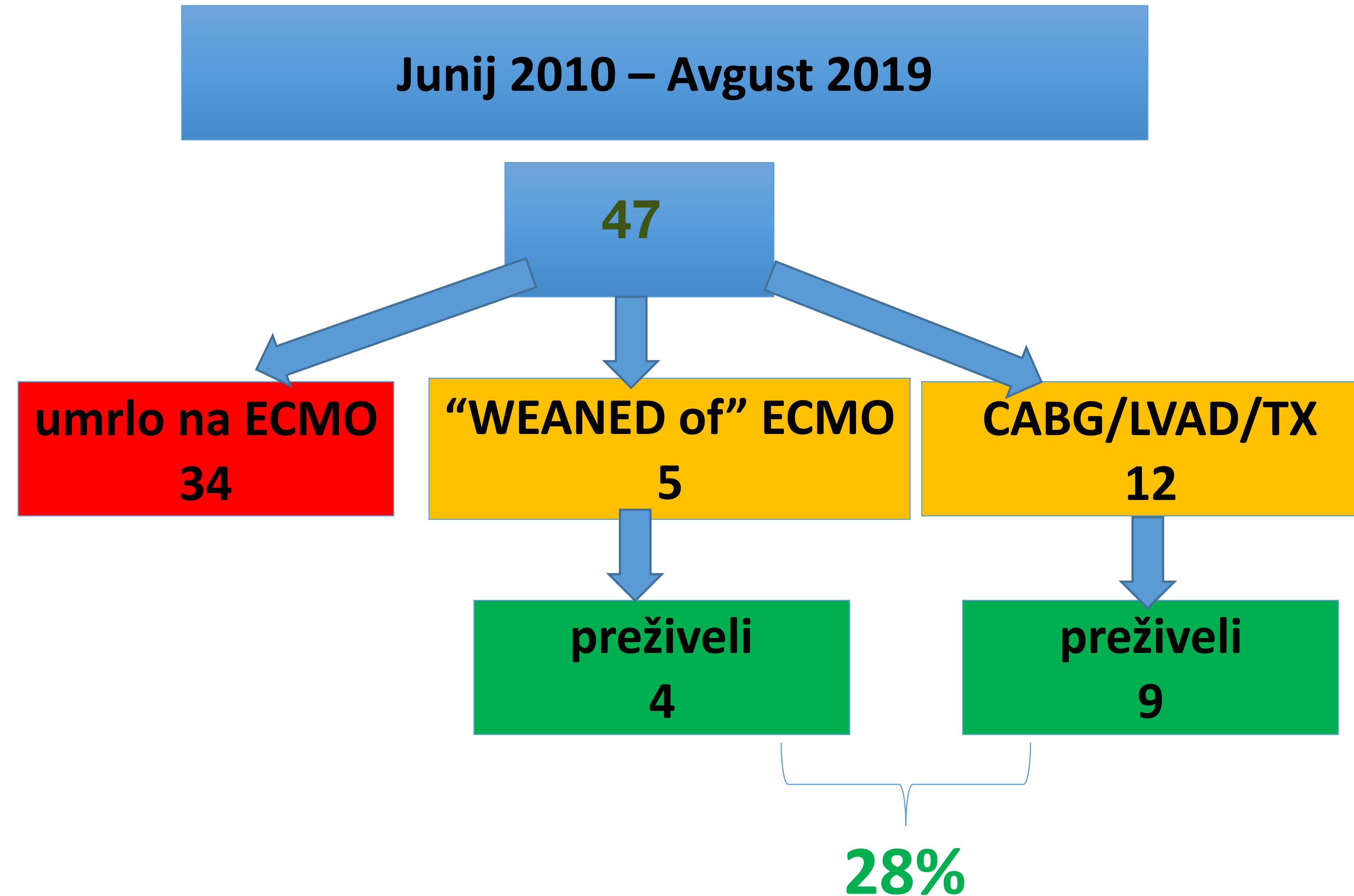


Perkutana vstavitev VA - ECMO



Goslar T, Knafelj R, Radsel P, Fister M, Golicnik A, Steblovnik K, Gorjup V, Noc M.

Emergency percutaneous implantation of veno-arterial extracorporeal membrane oxygenation in the catheterisation laboratory. *EuroIntervention*. 2016



- Bolnik <65 let
- Brez pomembnih bolezni
- Srčni zastoj pred pričami
- BLS
- Dostopni čas <10 min
- **VF/VT prvi ritem**

- Brez ROSC po **10 min ALS**
- Predviden dostopni čas do **UKC Lj <20 min**

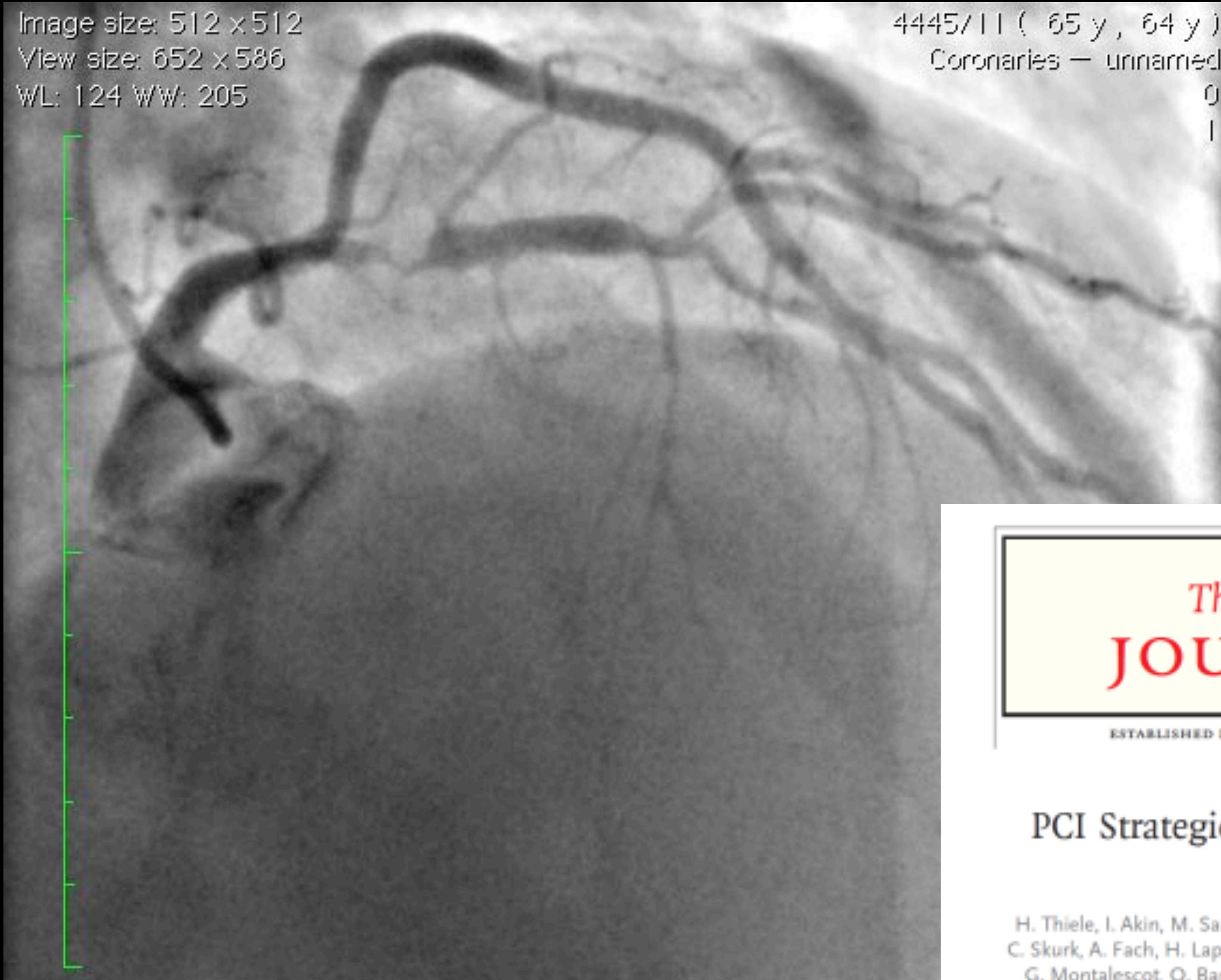
Klic v KOIIM – **01/522 8952**

- Med prevozom **neprekinjen ALS**
- Svetovana uporaba mehaničnega pripomočka za stiskanje prsnega koša
- Razmisli o uporabi pasivne insuflacije taheje s kisikom

Ponoven klic v primeru ROSC

- **Vstavitev V-A ECMO** v kateterizacijskem laboratoriju
- Nadaljna diagnostika

Image size: 512 x 512
View size: 652 x 586
WL: 124 WW: 205



4445/11 (65 y , 64 y)
Coronaries — uninamed
0
1

+ stenoza RCA

- PPCI LAD + DES



The NEW ENGLAND
JOURNAL of MEDICINE

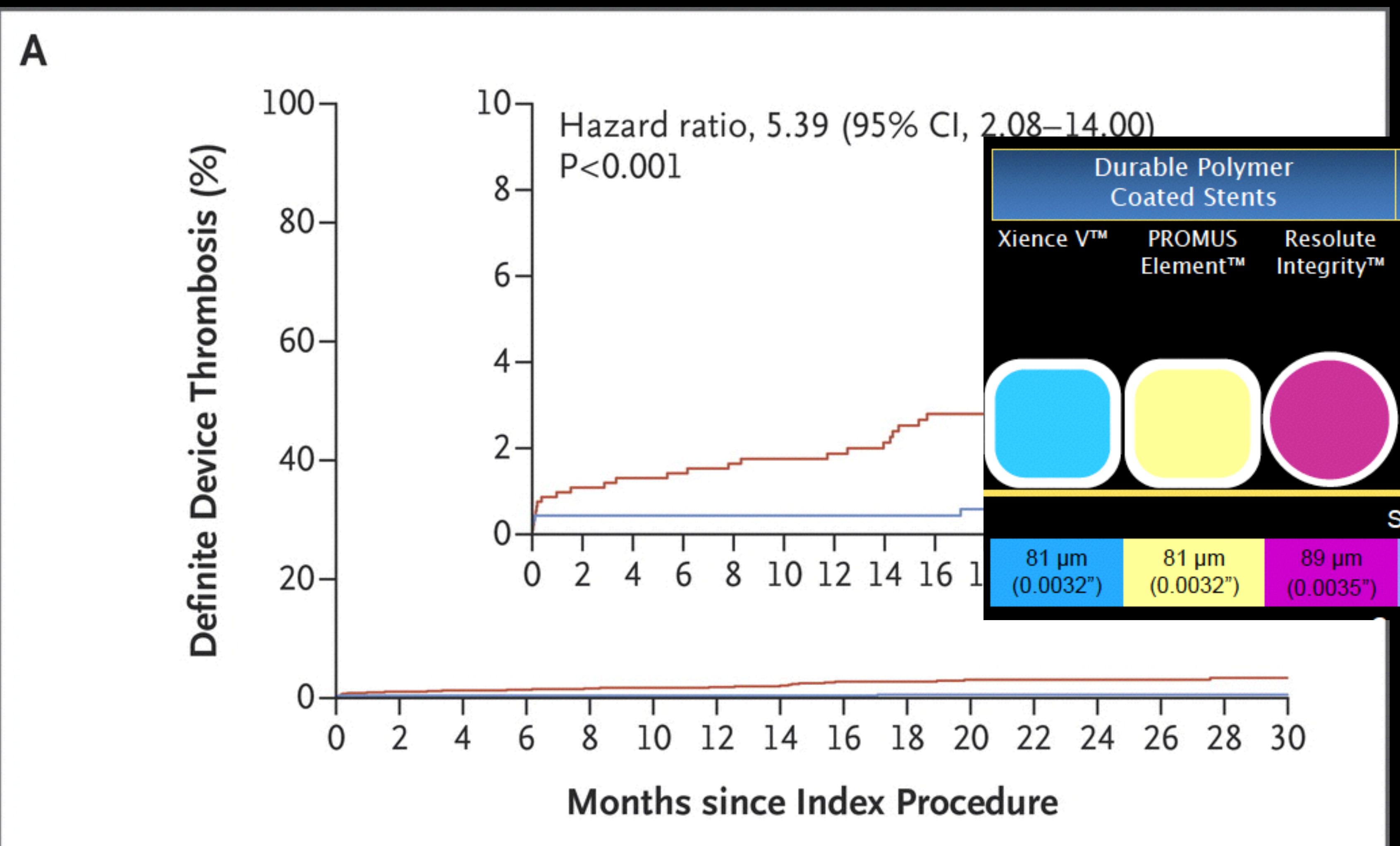
ESTABLISHED IN 1812 DECEMBER 21, 2017 VOL. 377 NO. 25

PCI Strategies in Patients with Acute Myocardial Infarction and Cardiogenic Shock

H. Thiele, I. Akin, M. Sandri, G. Fuernau, S. de Waha, R. Meyer-Sarael, P. Nordbeck, T. Geisler, U. Landmesser, C. Skurk, A. Fach, H. Lapp, J.J. Pieck, M. Noc, T. Goslar, S.B. Felix, L.S. Maier, J. Stepinska, K. Oldroyd, P. Serpytis, G. Montalescot, O. Barthelemy, K. Huber, S. Windecker, S. Savonitto, P. Torremante, C. Vrints, S. Schneider, S. Desch, and U. Zeymer, for the CULPRIT-SHOCK Investigators*

07/12/11 5:41:14
Made In OsiriX

Bioresorbable Scaffolds versus Metallic Stents in Routine PCI



Published Ahead of Print on May 10, 2017 as 10.1212/WNL.0000000000003966

SPECIAL ARTICLE



Practice guideline summary: Reducing brain injury following cardiopulmonary resuscitation

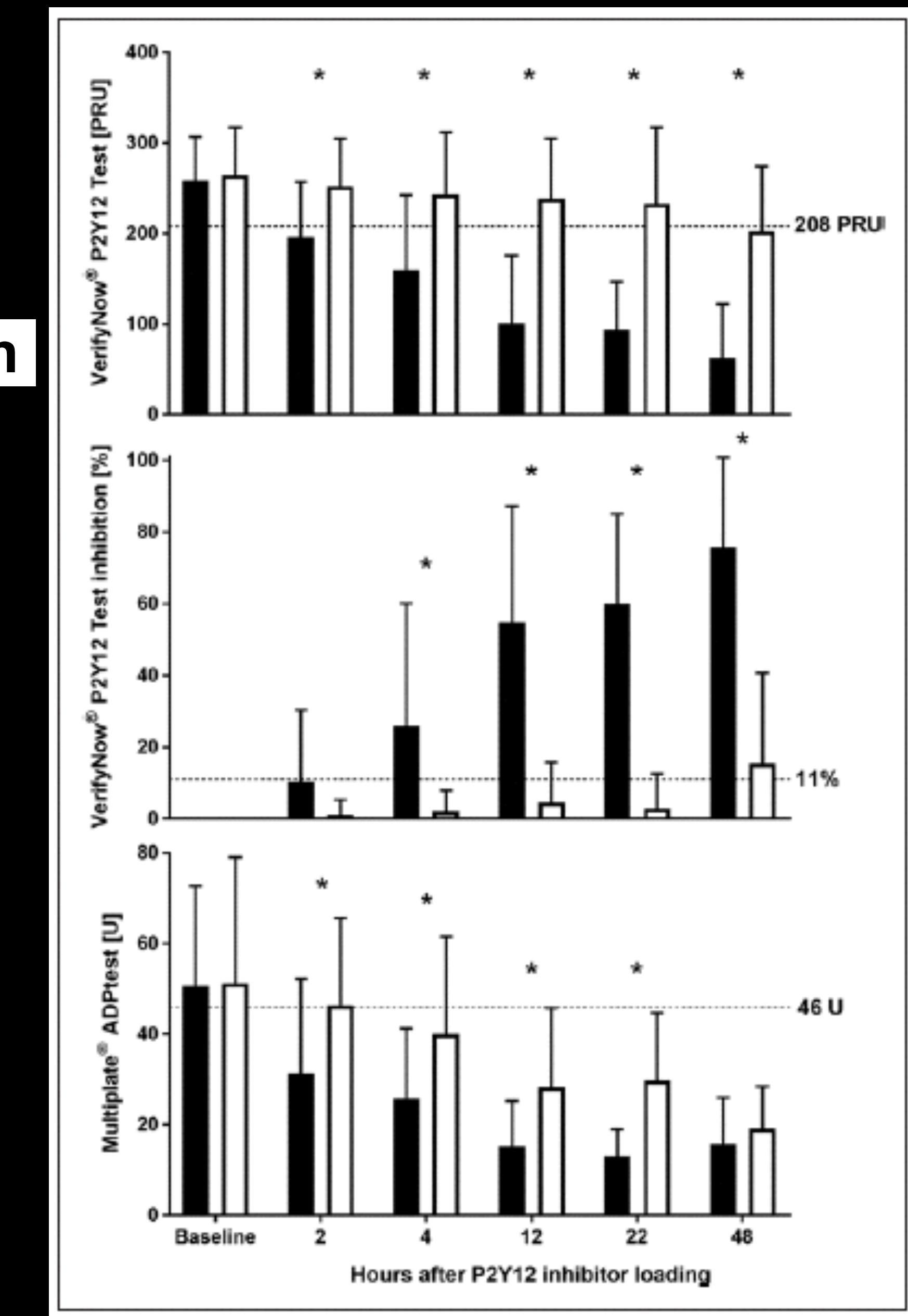
Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology



Ticagrelor Versus Clopidogrel in Comatose Survivors of Out-of-Hospital Cardiac Arrest Undergoing Percutaneous Coronary Intervention and Hypothermia: A Randomized Study.

ASA i.v. + ticagrelor

Steblovnik K, Blinc A, Mijovski MB, Fister M, Mikuz U, Noc M. Ticagrelor Versus Clopidogrel in Comatose Survivors of Out-of-Hospital Cardiac Arrest Undergoing Percutaneous Coronary Intervention and Hypothermia: A Randomized Study. Circulation. 2016 Dec 20;134(25):2128-2130.

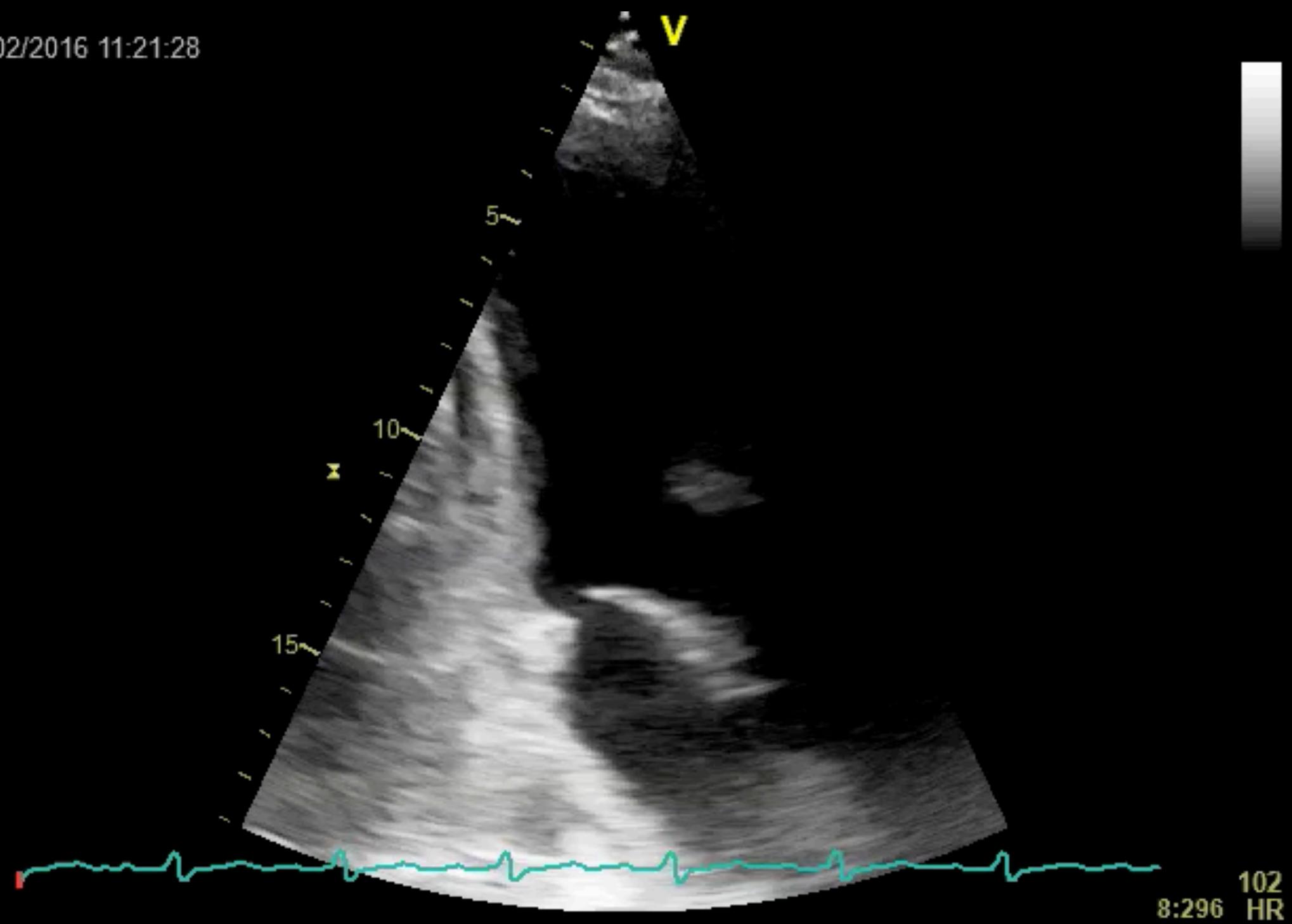


ECMO odstranjen 5. dan

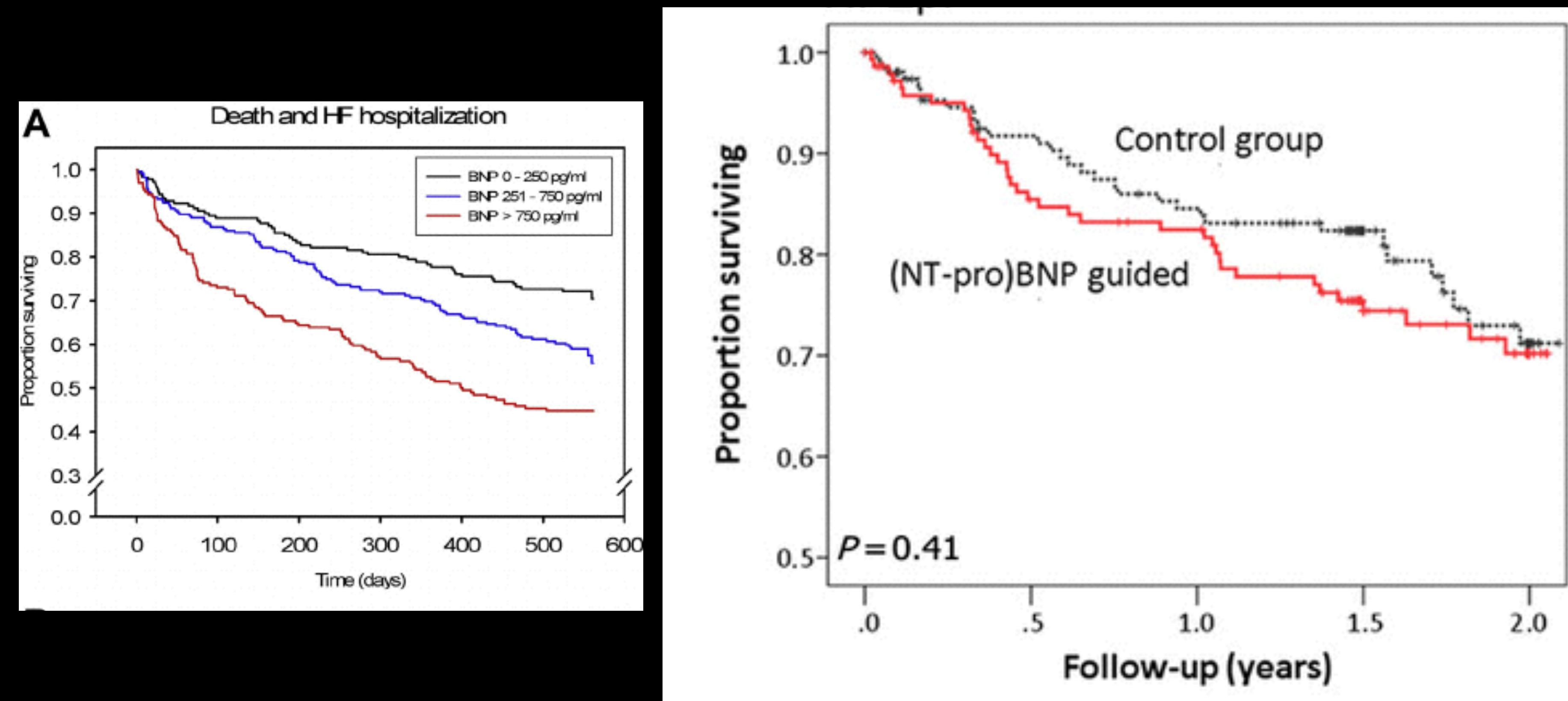
24/02/2016 11:21:28



NT pro BNP 15.000

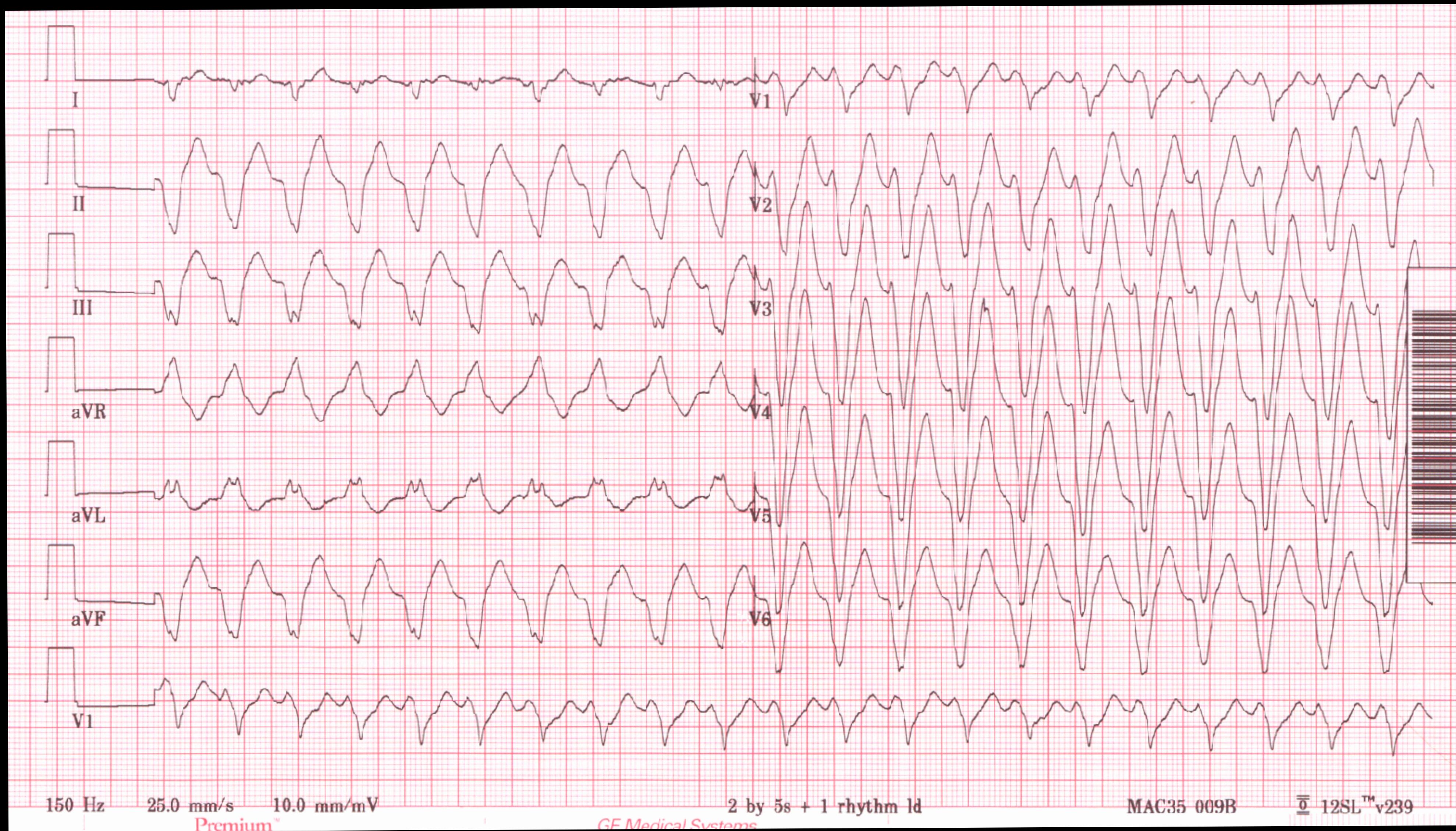


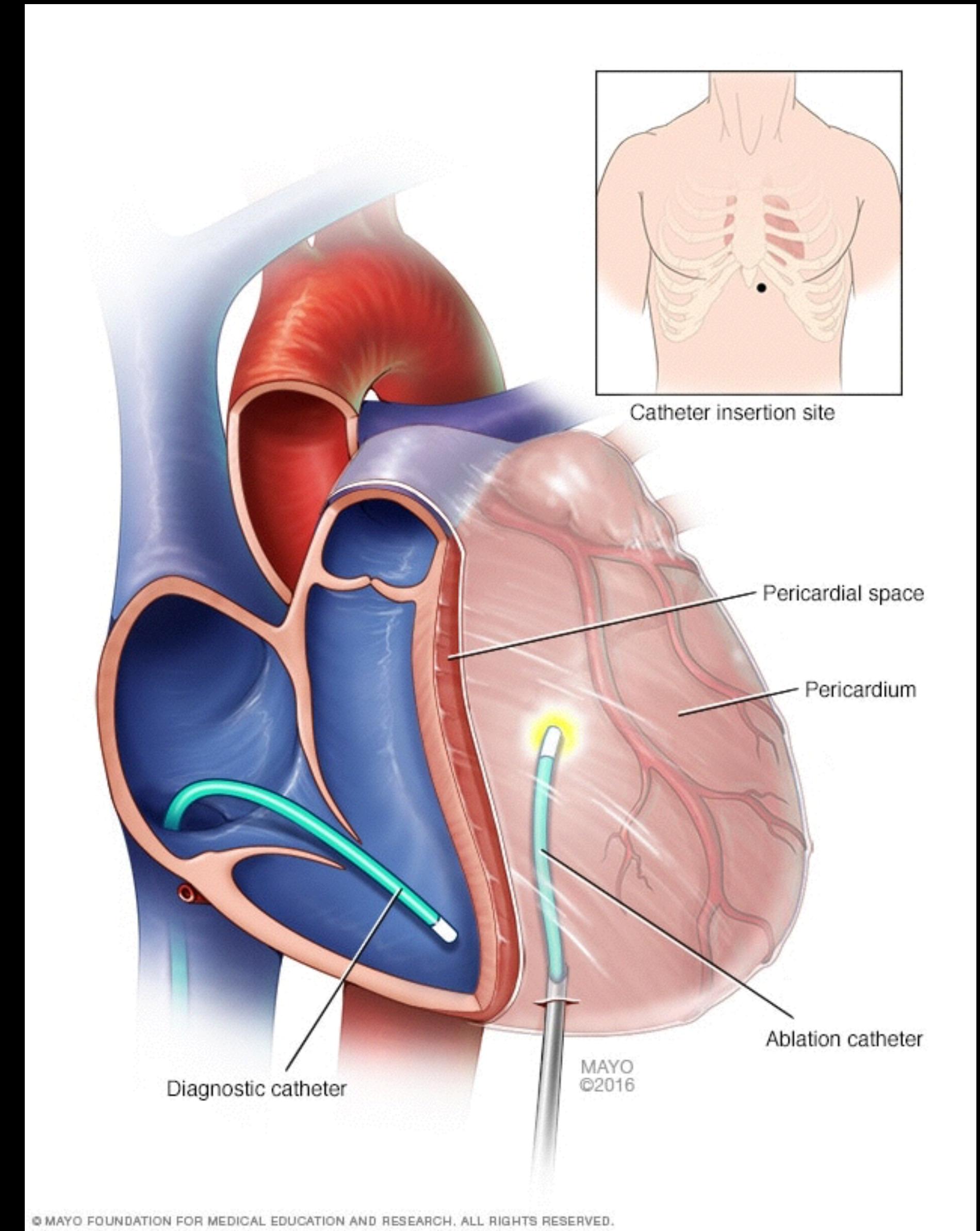
N-terminal pro-B-type natriuretic peptide-guided therapy in patients hospitalized for acute heart failure



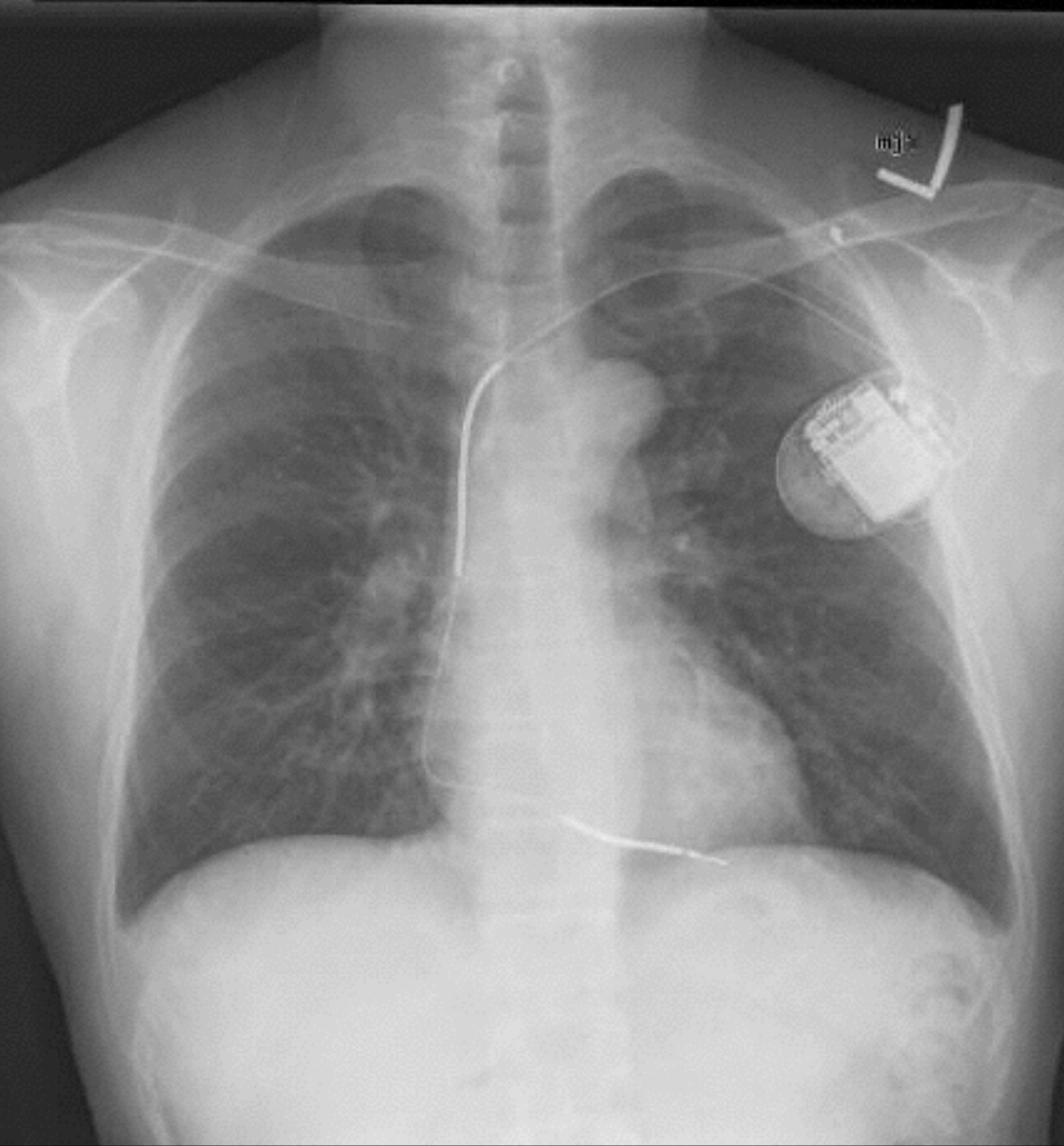
natriuretic peptide levels have prognostic value in patients with acute heart failure, but evidence does not support targeting lower levels as a means of improving outcomes

12. dan

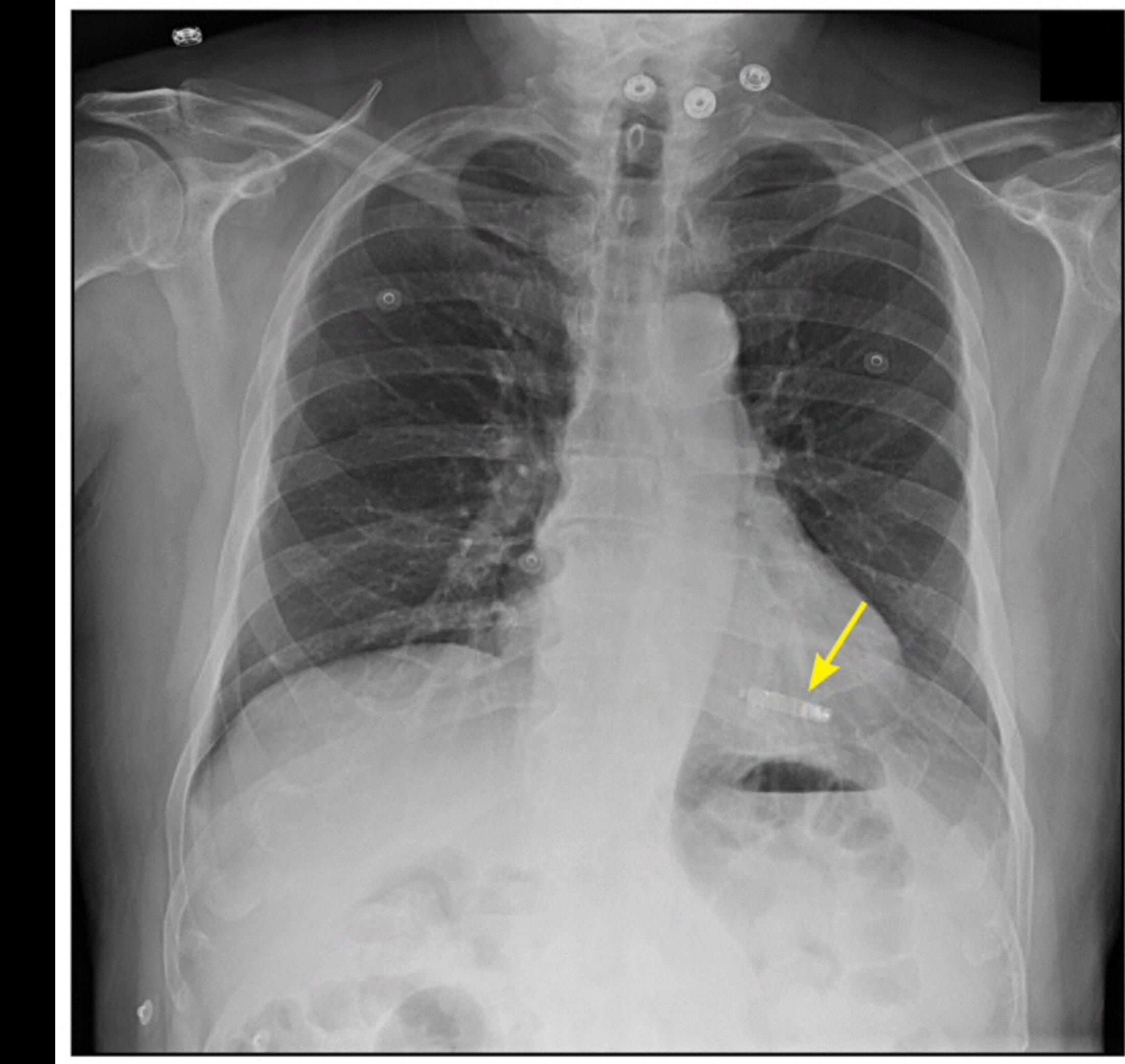




Combined epicardial/endocardial ablation for ventricular tachycardia JACC Clin Electrophysiol. 2019



ICD



Safety of continued versus interrupted DOACs during transvenous CIED implantation (December 2018)

PODALJŠANJE TERAPIJE ZA ZMANJŠANJE ATEROTROMBOTIČNIH ZAPLETOV?

Raziskava	*PRODIGY	**DAPT	***PEGASUS
Število letnikov	2012	2001	2011-162
Po DE	Podaljšanje P2Y12 zmanjša pogostost ishemičnih dogodkov, a poveča verjetnost pomembne krvavitve		
Trajanje P2Y12	24 vs 6 mesecev	12 vs 30 mesecev	0 vs 3 leta
P2Y12	Klopi	Klopi/Prasu	Tika 60mg
MACCE	NS	-1.6%	-1.3%
MI	NS	-2.0%	-0.7%
ST	NS	-1.0%	?
Velika krvavitev	+1%	+2.7%	+1.2%
Transfuzija	+1.3%	?	?
Dispnoe	-	-	+9.5%
Smrt	NS	+0.5%	NS

*Valgimigli M, et al. Circulation 2012;125:2015-26

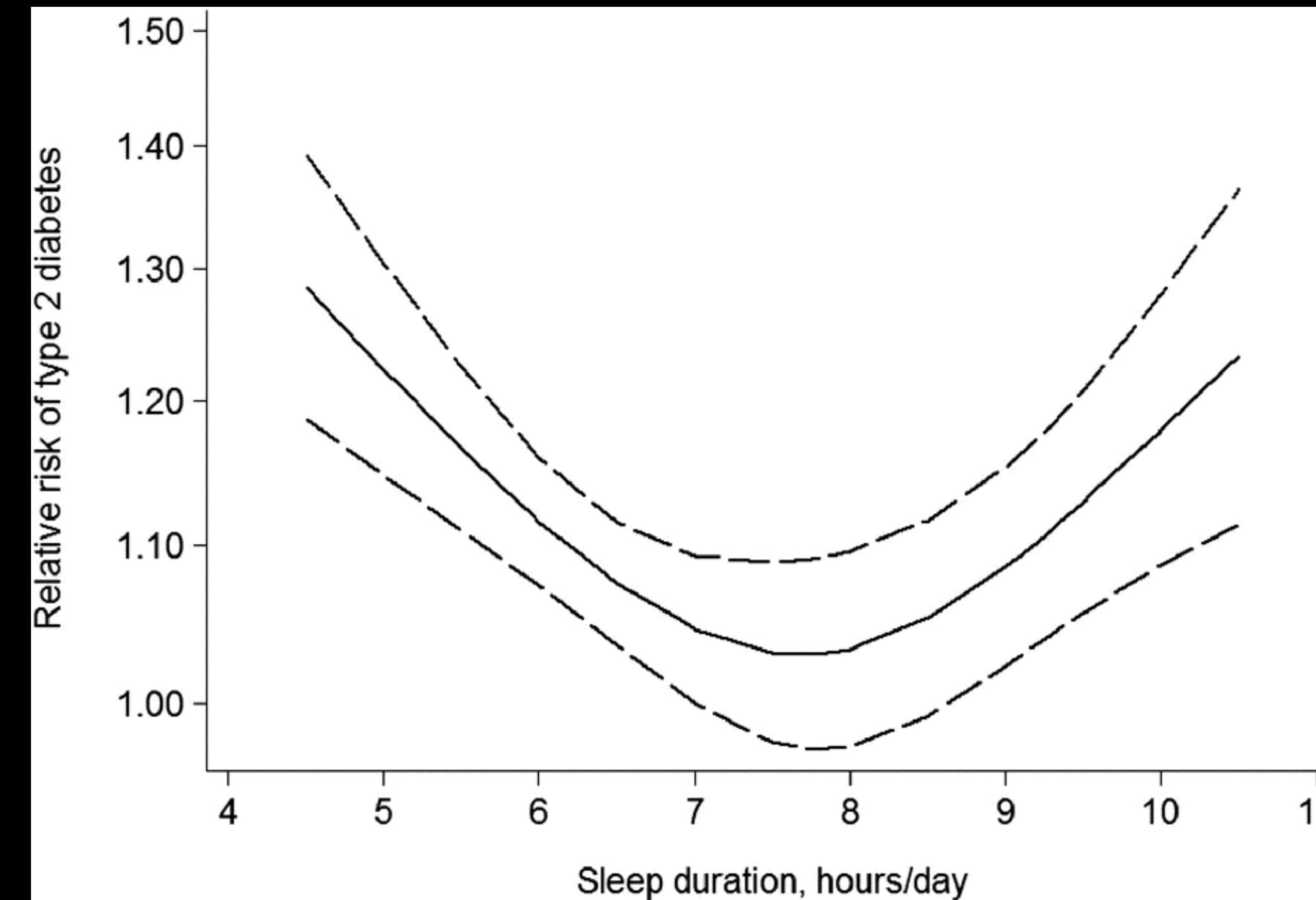
**Mauri L, et al. NEJM 2014;371:2155-66

***Bonaca MP, et al. NEJM 2015;372:1791-800



Sleep Duration and Quality: Impact on Lifestyle Behaviors and Cardiometabolic Health: A Scientific Statement From the American Heart Association

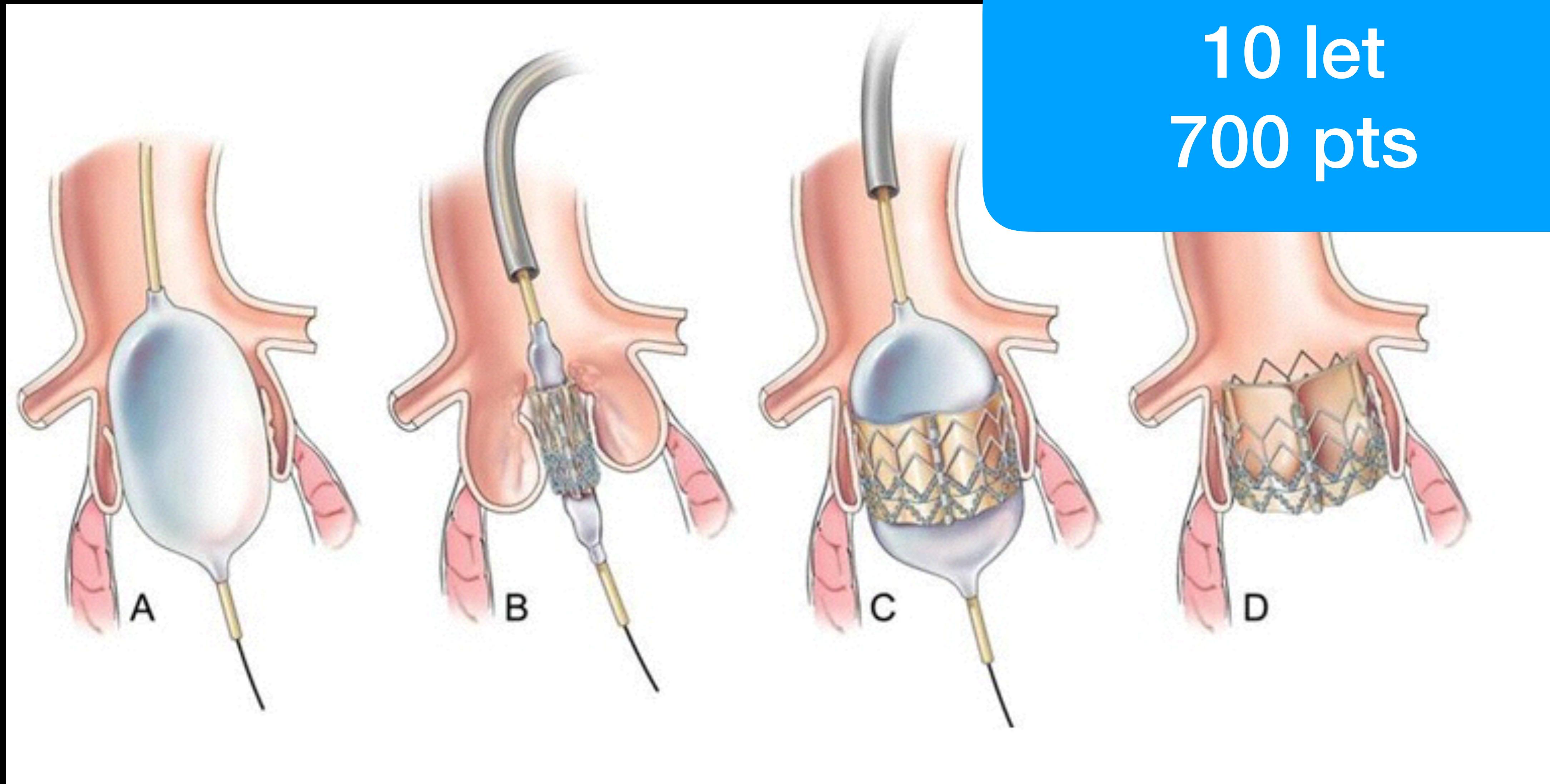
A new scientific statement from the American Heart Association reviews data linking sleep restriction with adverse cardiometabolic outcomes and recommends that healthy sleep behavior be addressed in public health campaigns to promote ideal cardiac health, alongside blood pressure, cholesterol, diet, blood glucose, physical activity, weight, and smoking cessation.





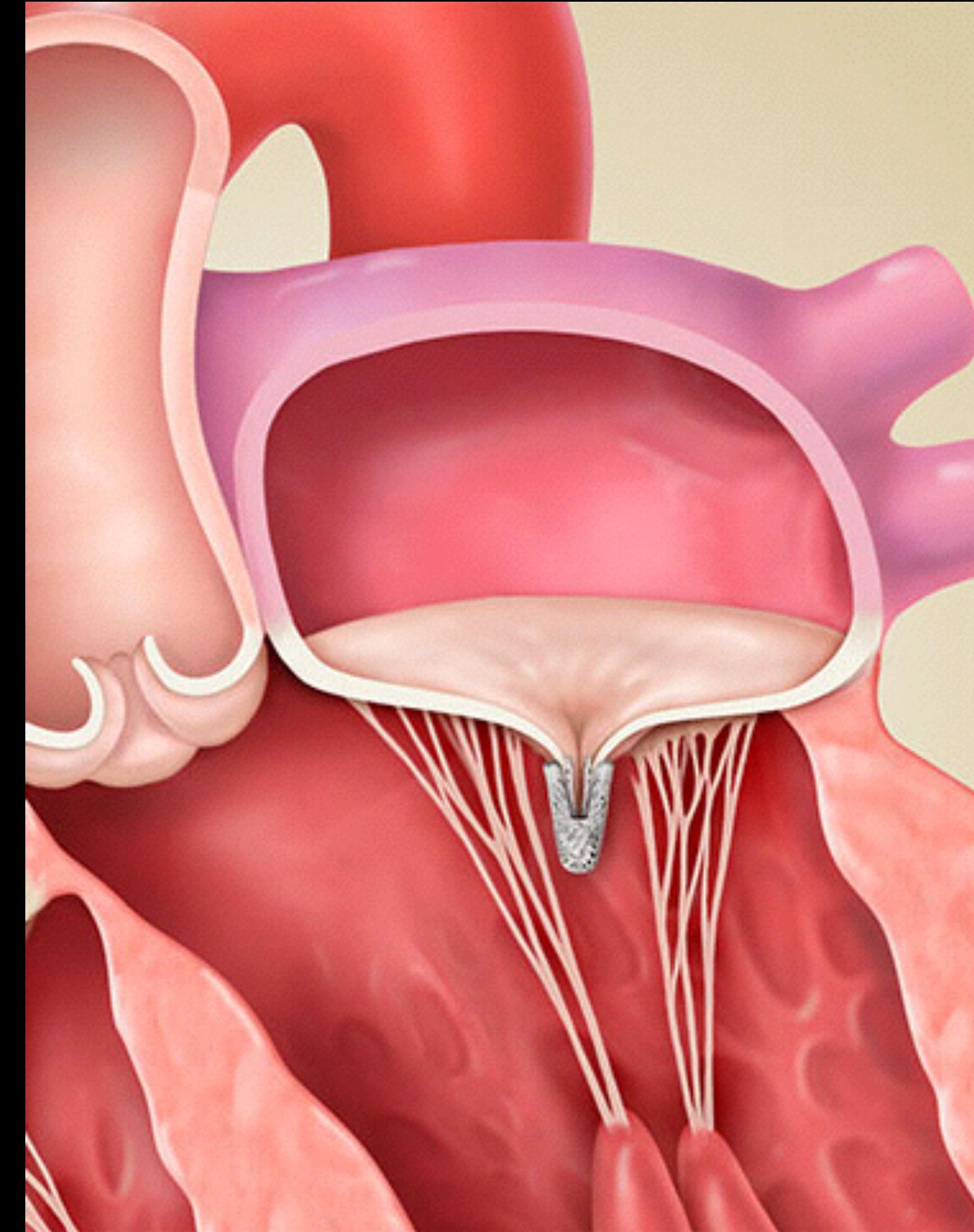
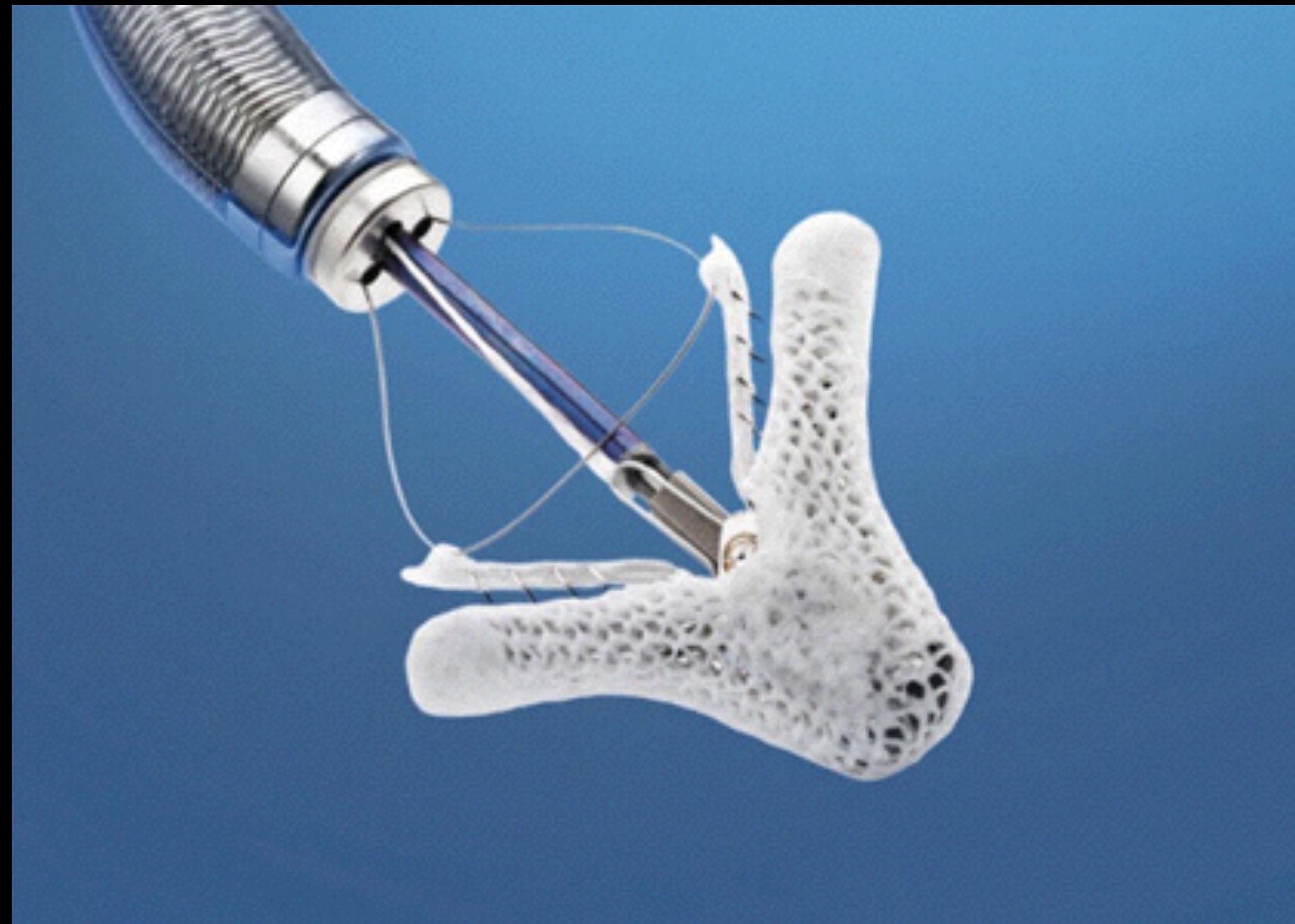
TAVI

10 let
700 pts

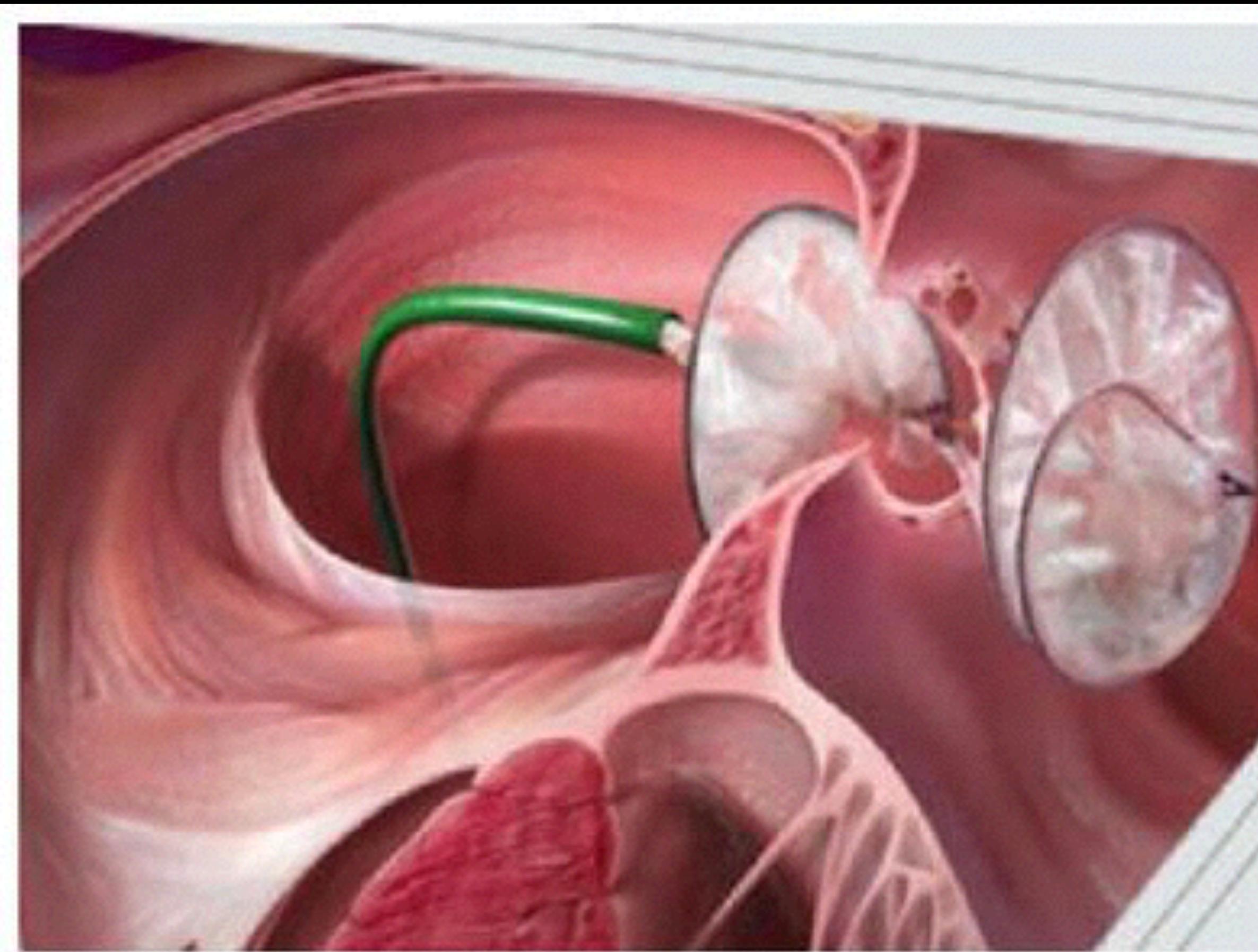


visoko tveganje + srednje tveganje za kirurgijo

Mitraclip



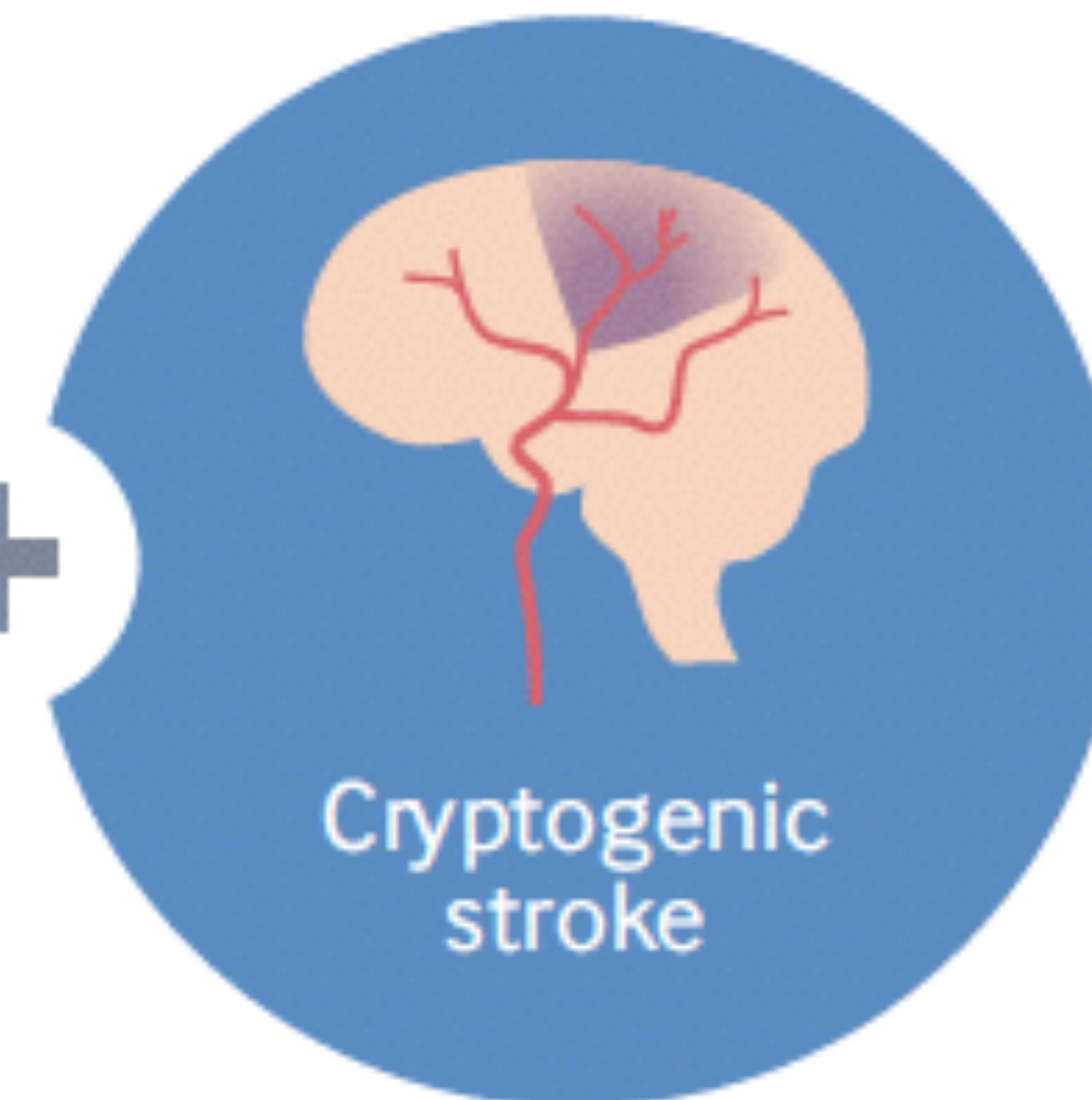
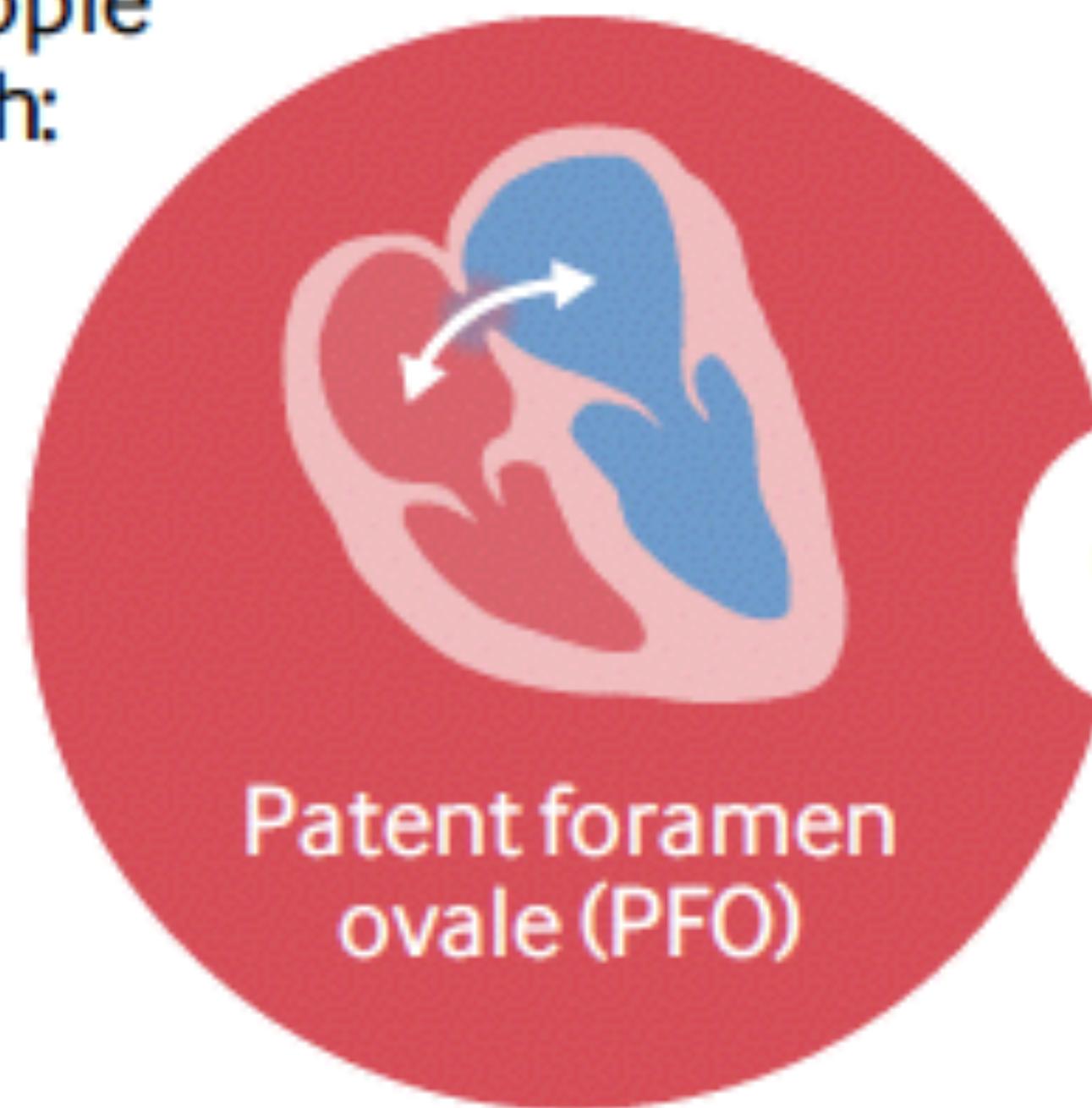
samo ozko selekcionirani bolniki



**PFO CLOSURE
DEVICE**

Population

People
with:



No atrial fibrillation

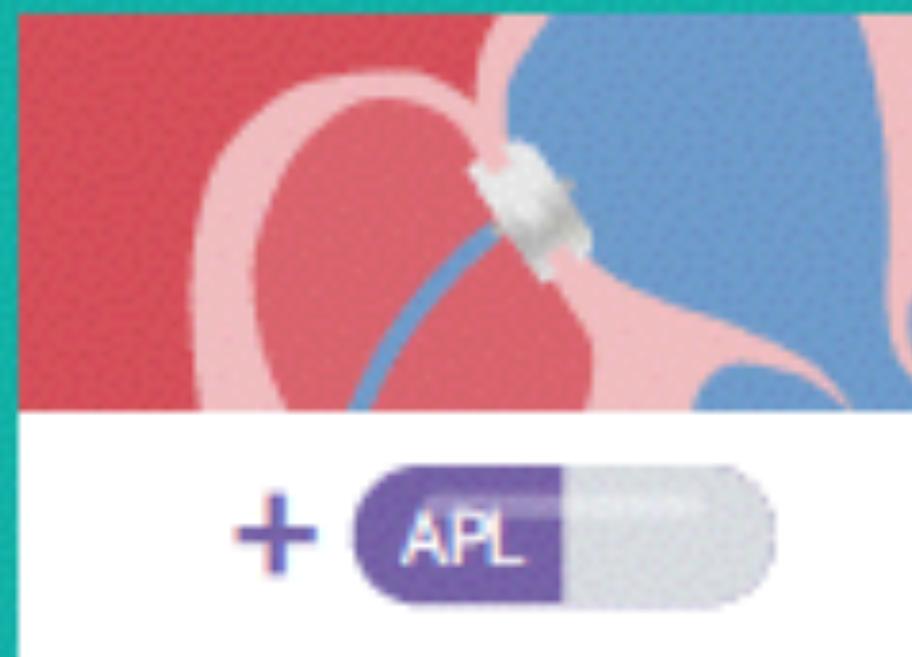
No aortic disease

No left sided heart disease

No cerebrovascular disease

PFO closure

Percutaneous closure of PFO followed by antiplatelet therapy



OR

Anticoagulants

Anticoagulation therapy

OAC

PFO closure

Strong ⓘ

Weak ⓘ

Anticoagulants

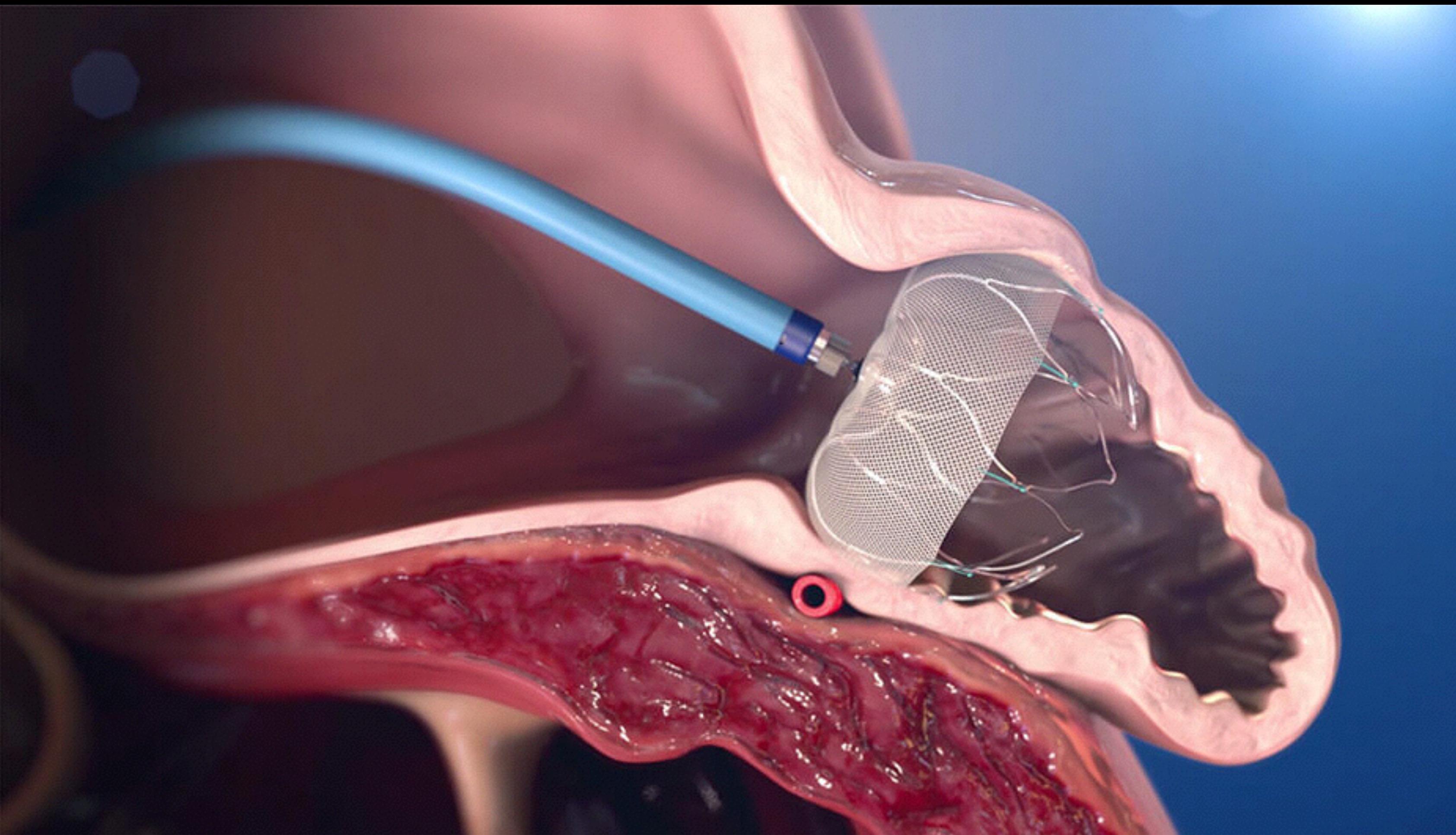
Weak ⓘ

Strong ⓘ

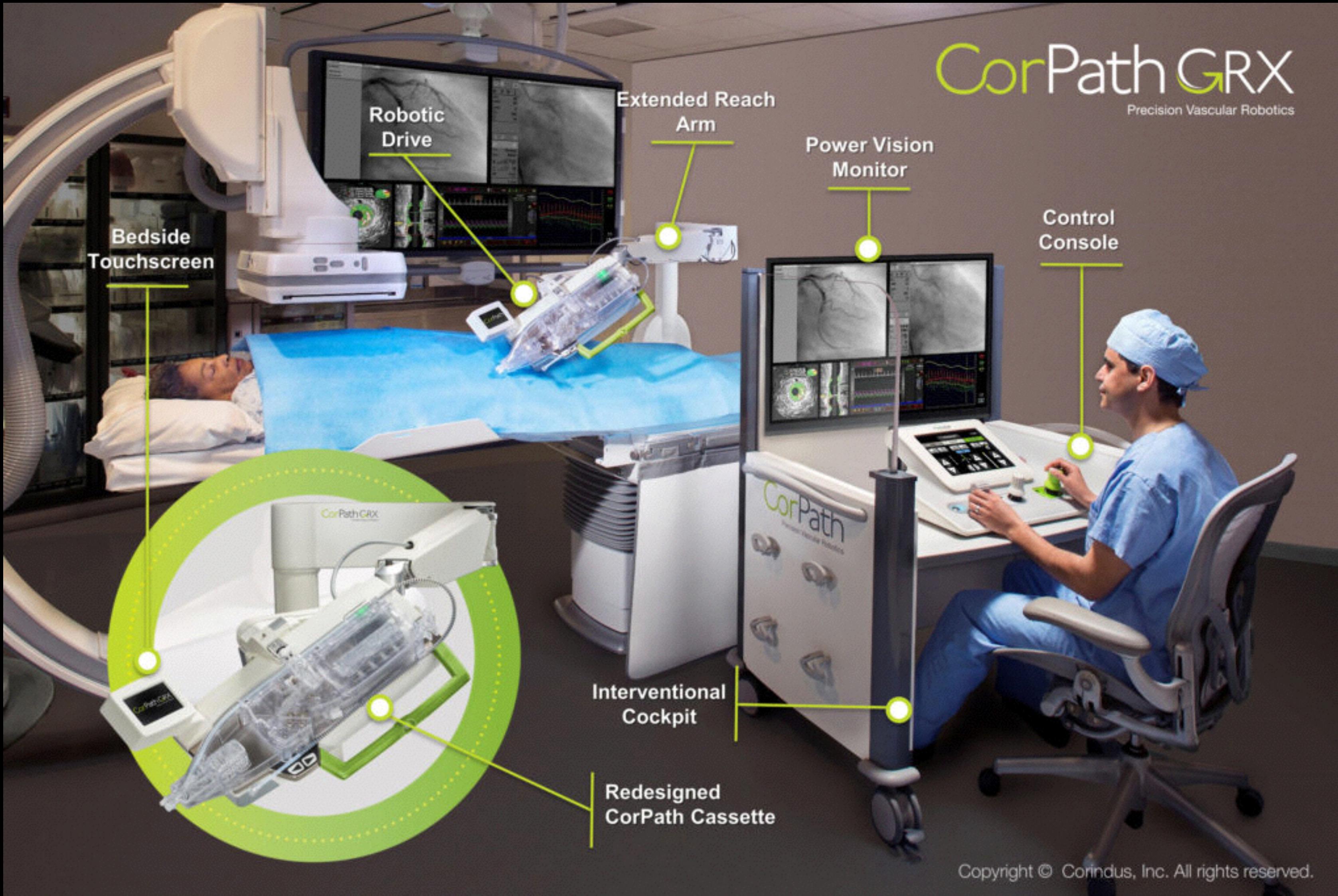
We suggest PFO closure followed by antiplatelet therapy over anticoagulation therapy. Discuss both options with each patient.

More details

Zapiranje avrikule levega preddvora



Na daljavo vodena robotska PCI

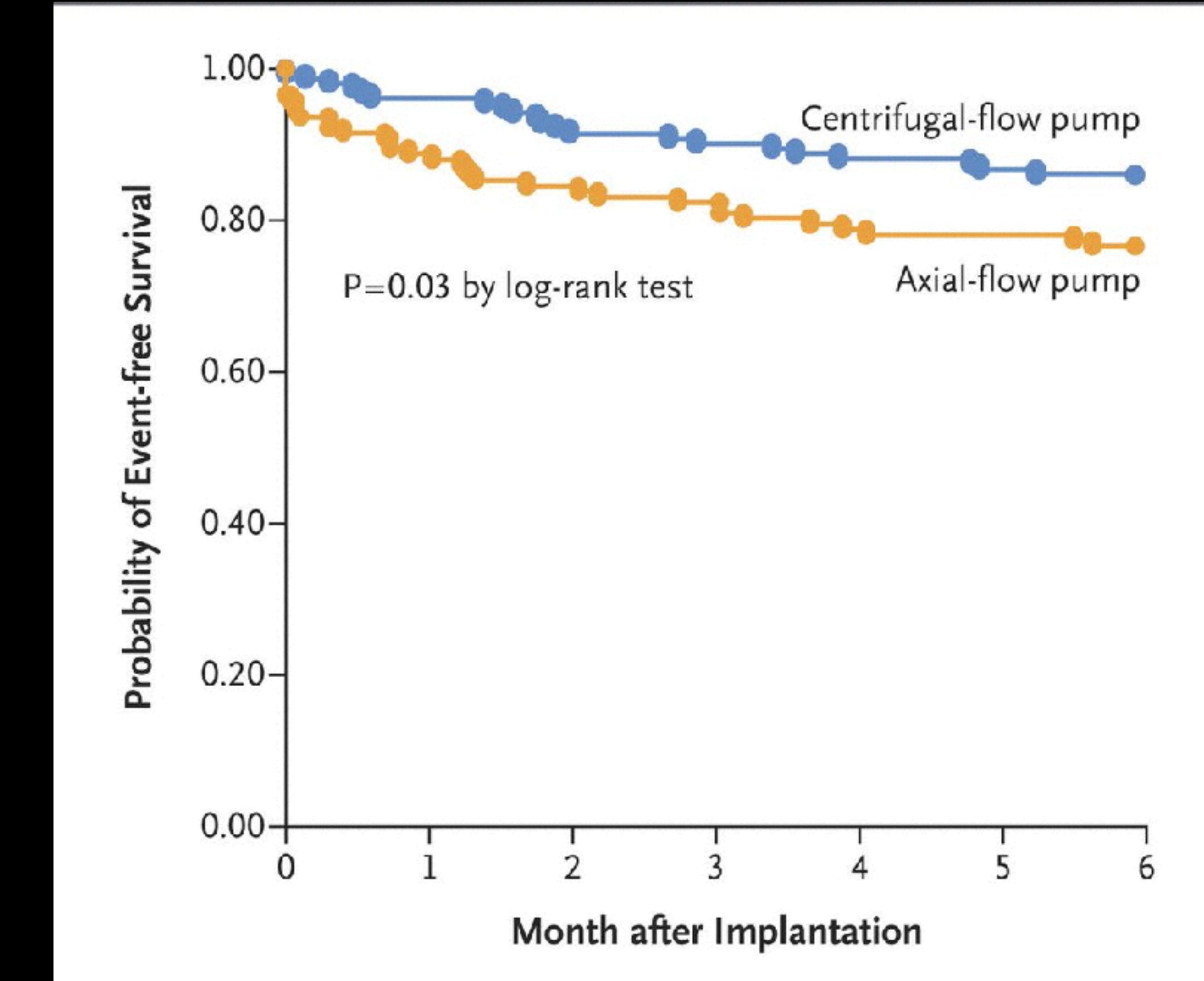
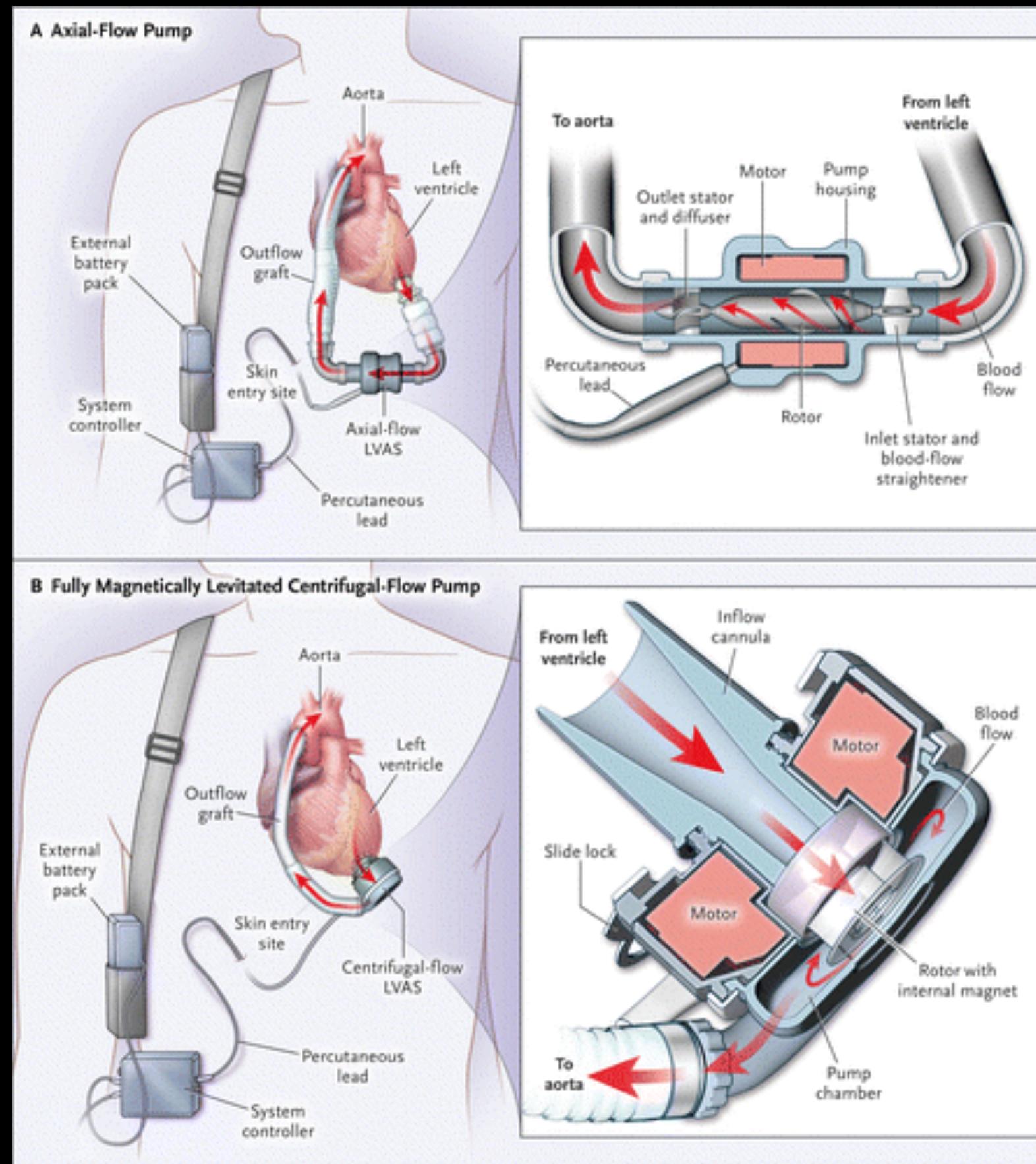


- nič / malo sevanja za operaterja
- manj poškodb hrbtnice
- delo na daljavo



- visoka cena
- 2 operaterja
- “haptičnost”
- zaupanje bolika

A Fully Magnetically Levitated Circulatory Pump for Advanced Heart Failure

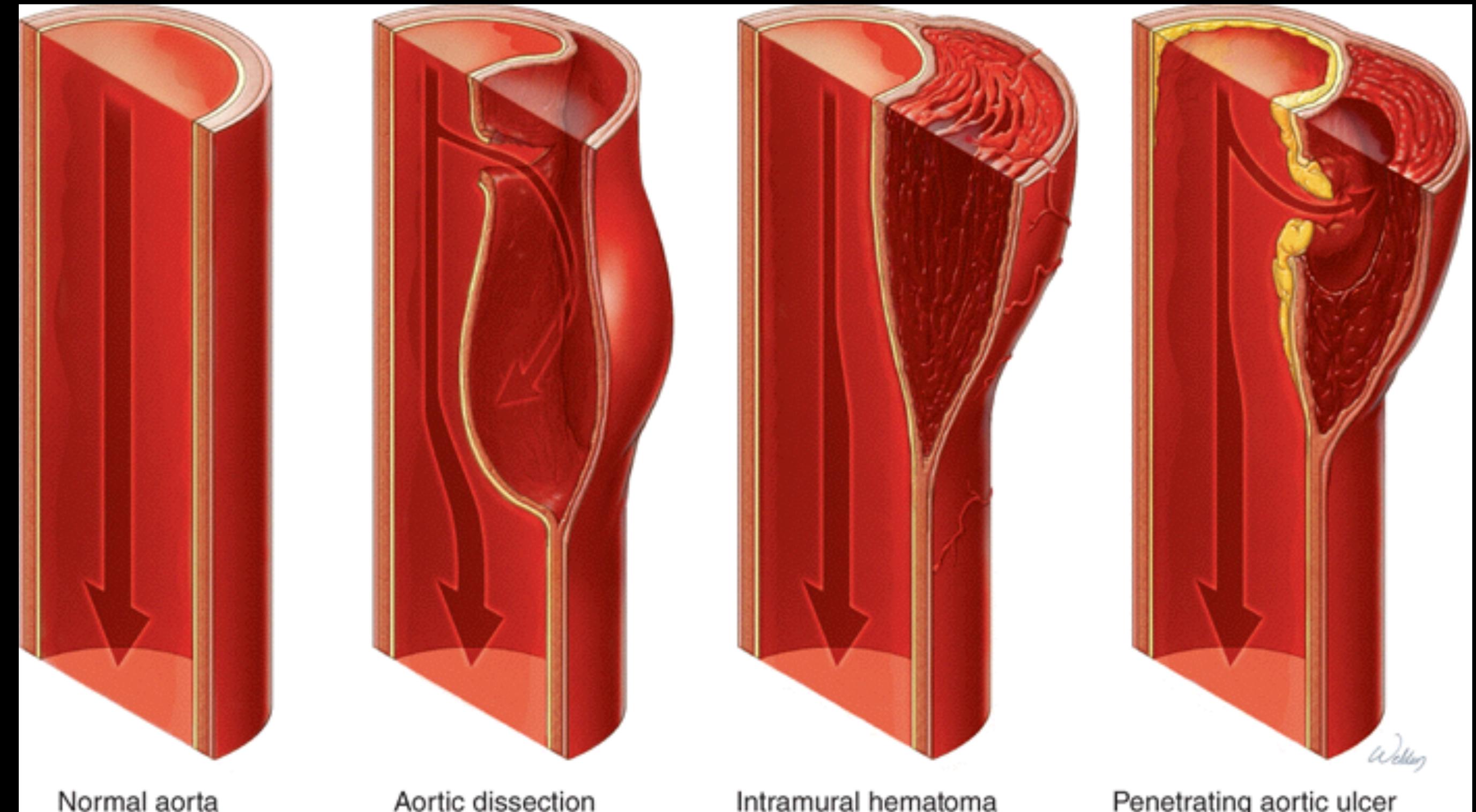


Among patients with advanced heart failure, implantation of a fully magnetically levitated centrifugal-flow pump was associated with better outcomes at 6 months than was implantation of an axial-flow pump, primarily because of the lower rate of reoperation for pump malfunction.

florokinoloni !

FDA Black Box Warning

A black box warning is the strongest warning issued by the FDA pertaining to particularly strong adverse effects caused by a pharmaceutical. A black box warning is the toughest step taken by the FDA short of removing a drug from the market.





AKUTNA KARDIOLOGIJA V SLOVENIJI

ZDRAVNIŠKA ZBORICA, 3.4.2020