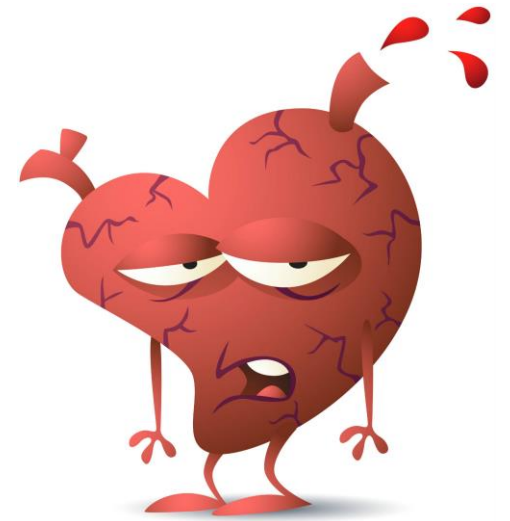




Proč se nebát pacienta s ICHS

Michal Lipš
Praha

Epidemiologie kardiovaskulárních nemocí



- **300 mio** operací v celém světě
- Více KV rizik u poloviny pacientů starších **45 let**
- Ateroskleróza u **25%** operovaných
- Úmrtí, IM či CMP u **1 z 33** operovaných nad 45 let



pan Hodný

ICHDK, klaudikace po 50m

Indikován Ao-bifemo bypass

Aterosklerosis multiplex

EF 55%, diastolická dysfunkce

Hypertenze korigovaná

DM na dietě

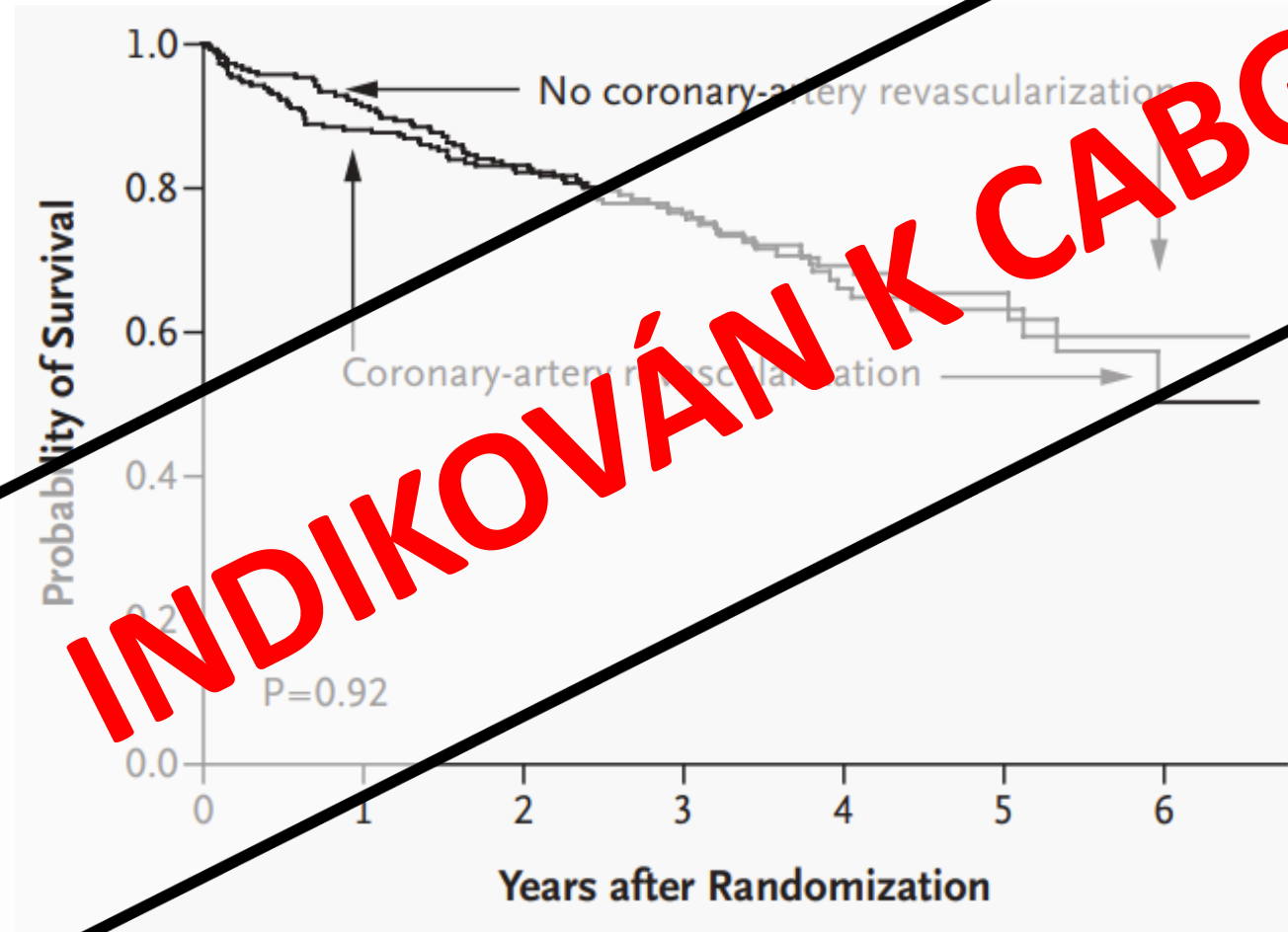
Exkuřák

Hypercholesterolémie

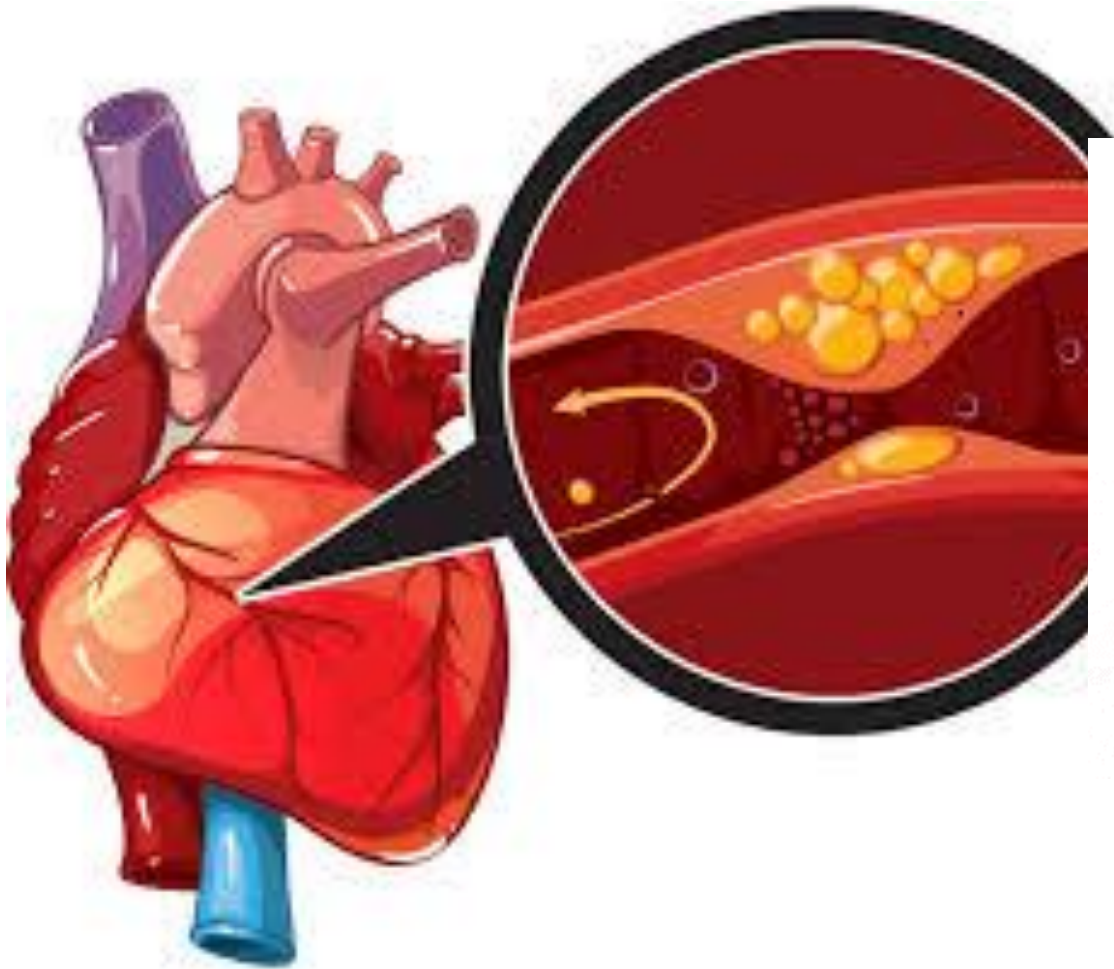




Coronary-Artery Revascularization before Elective Major Vascular Surgery



Co nás učili ve škole...



1

Narrowed or
Blocked artery

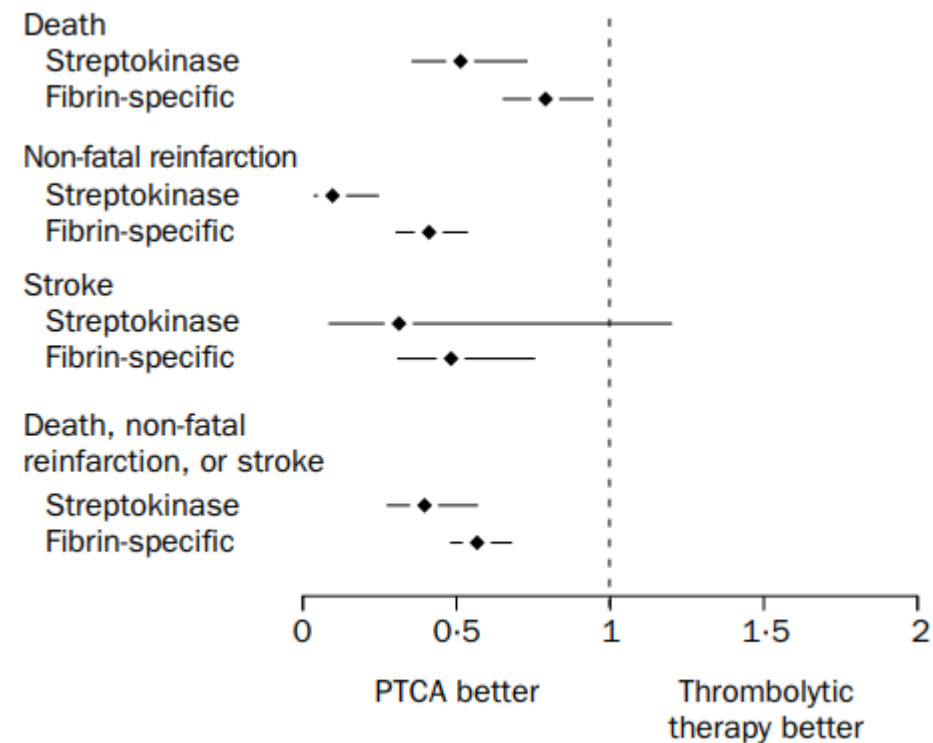
Co nás učili o revaskularizaci...

- Zachraňuje a prodlužuje životy
- Prevence infarktu myokardu a dalších srdečních příhod
- Zlepšení funkce myokardu
- Odstranění anginosních bolestí

Articles

Primary angioplasty versus intravenous thrombolytic therapy for acute myocardial infarction: a quantitative review of 23 randomised trials

Ellen C Keeley, Judith A Boura, Cindy L Grines

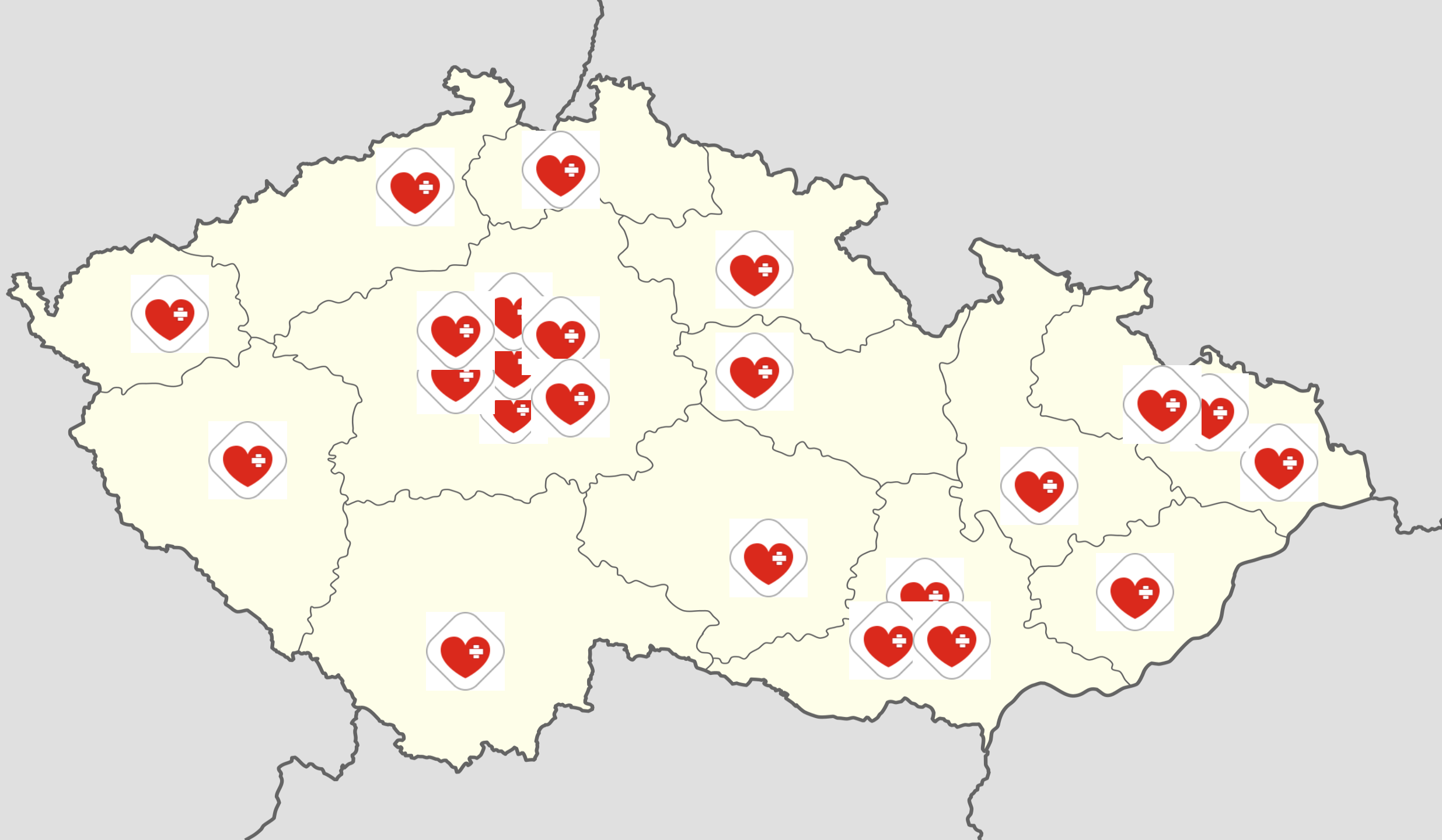




STENT

Heal a Heart

SAVE A
LIFE



KATETRIZAČNÍ PRACOVISTĚ V ČR

Město	Nemocnice	Pracoviště
Brno	Fakultní nemocnice Brno	Pracoviště
Brno	Fakultní nemocnice u sv. Anny	
Brno	Centrum kardiovaskulární a transplantační chirurgie	
Brno	Brno	
České Budějovice	Nemocnice České Budějovice, a. s.	Oddělení intervenční kardiologie
Hradec Králové	Fakultní nemocnice Hradec Králové	
Jihlava	Nemocnice Jihlava	
Karlovy Vary	Karlovarská krajská nemocnice, a. s.	
Liberec	Krajská nemocnice Liberec, a. s.	
Olomouc	Fakultní nemocnice Olomouc	
Ostrava	Fakultní nemocnice Ostrava	
Ostrava	Městská nemocnice Ostrava	
Pardubice	Kardiologické centrum AGEL, a. s.	
Plzeň	Fakultní nemocnice Plzeň	
Praha	Nemocnice Na Homolce	
Praha	Institut klinické a experimentální medicíny	
Praha	Fakultní nemocnice Královské Vinohrady	
Praha	Fakultní nemocnice Motol	
Praha	Kardiologie na Bulovce, s. r. o.	
Praha	Ústřední vojenská nemocnice	
Praha	Všeobecná fakultní nemocnice	
Třinec	Nemocnice Podlesí	
Ústí nad Labem	Masarykova nemocnice v Ústí nad Labem, o. z.	
Zlín	Krajská nemocnice T. Bati, a. s.	

The NEW ENGLAND JOURNAL *of* MEDICINE

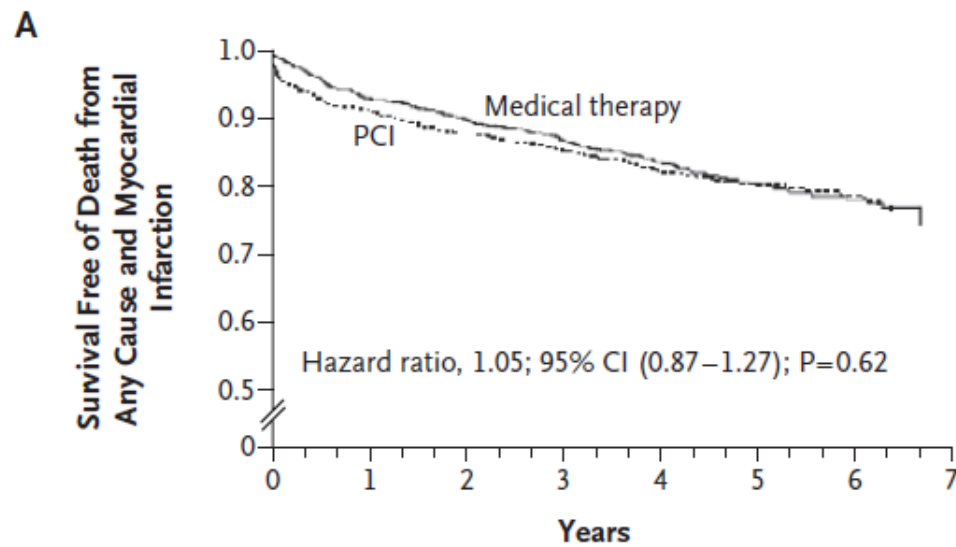
ESTABLISHED IN 1812

APRIL 12, 2007

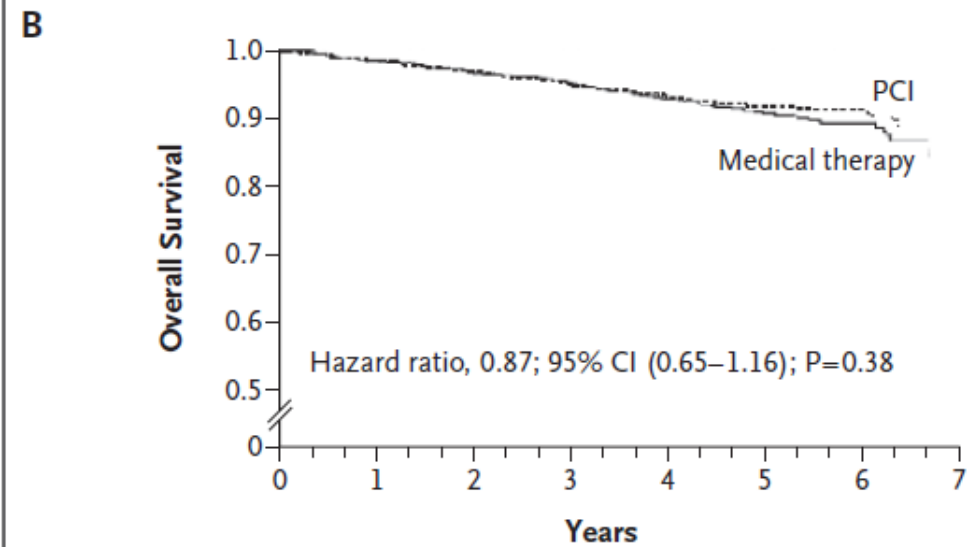
VOL. 356 NO. 15

Optimal Medical Therapy with or without PCI for Stable Coronary Disease

William E. Boden, M.D., Robert A. O'Rourke, M.D., Koon K. Teo, M.B., B.Ch., Ph.D., Pamela M. Hartigan, Ph.D., David J. Maron, M.D., William J. Kostuk, M.D., Merrill Knudtson, M.D., Marcin Dada, M.D., Paul Casperson, Ph.D., Crystal L. Harris, Pharm.D., Bernard R. Chaitman, M.D., Leslee Shaw, Ph.D., Gilbert Gosselin, M.D., Shah Nawaz, M.D., Lawrence M. Title, M.D., Gerald Gau, M.D., Alvin S. Blaustein, M.D., David C. Booth, M.D., Eric R. Bates, M.D., John A. Spertus, M.D., M.P.H., Daniel S. Berman, M.D., G.B. John Mancini, M.D., and William S. Weintraub, M.D., for the COURAGE Trial Research Group*



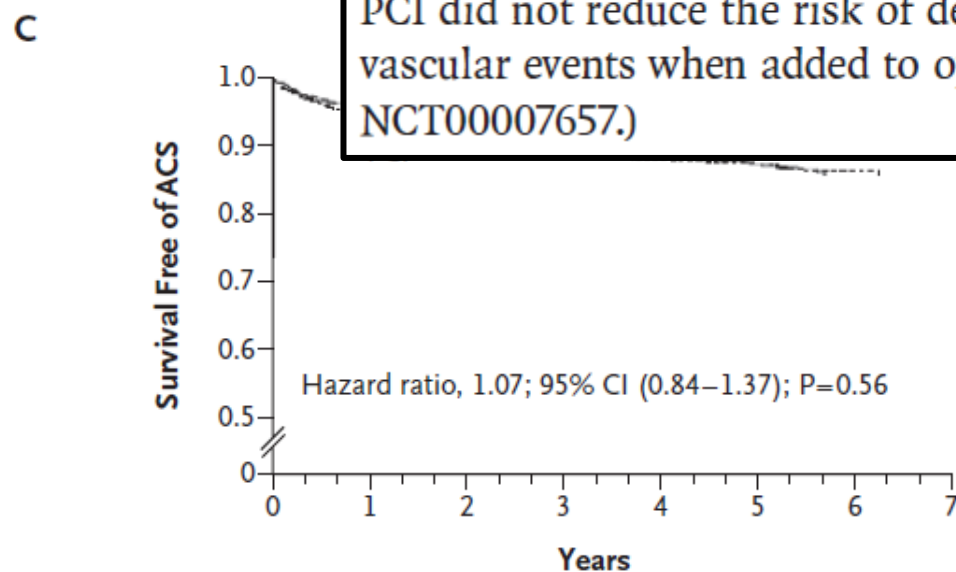
No. at Risk
Medical therapy 1138
PCI 1149



CONCLUSIONS

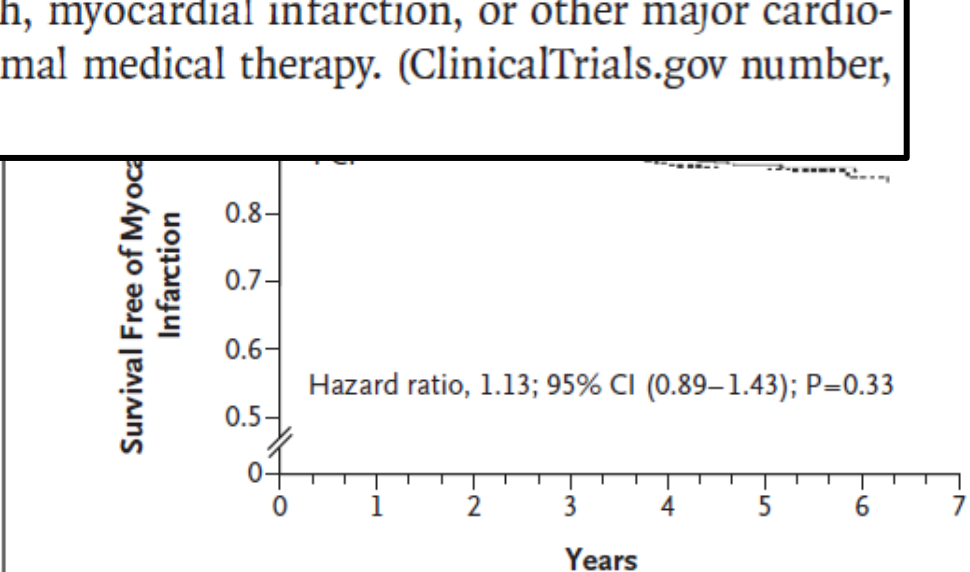
As an initial management strategy in patients with stable coronary artery disease, PCI did not reduce the risk of death, myocardial infarction, or other major cardiovascular events when added to optimal medical therapy. (ClinicalTrials.gov number, NCT00007657.)

38
44



No. at Risk

Medical therapy	1138	1025	956	833	662	418	236	127
PCI	1149	1027	957	835	667	431	246	134



No. at Risk

Medical therapy	1138	1019	962	834	638	409	192	120
PCI	1149	1015	954	833	637	418	200	134

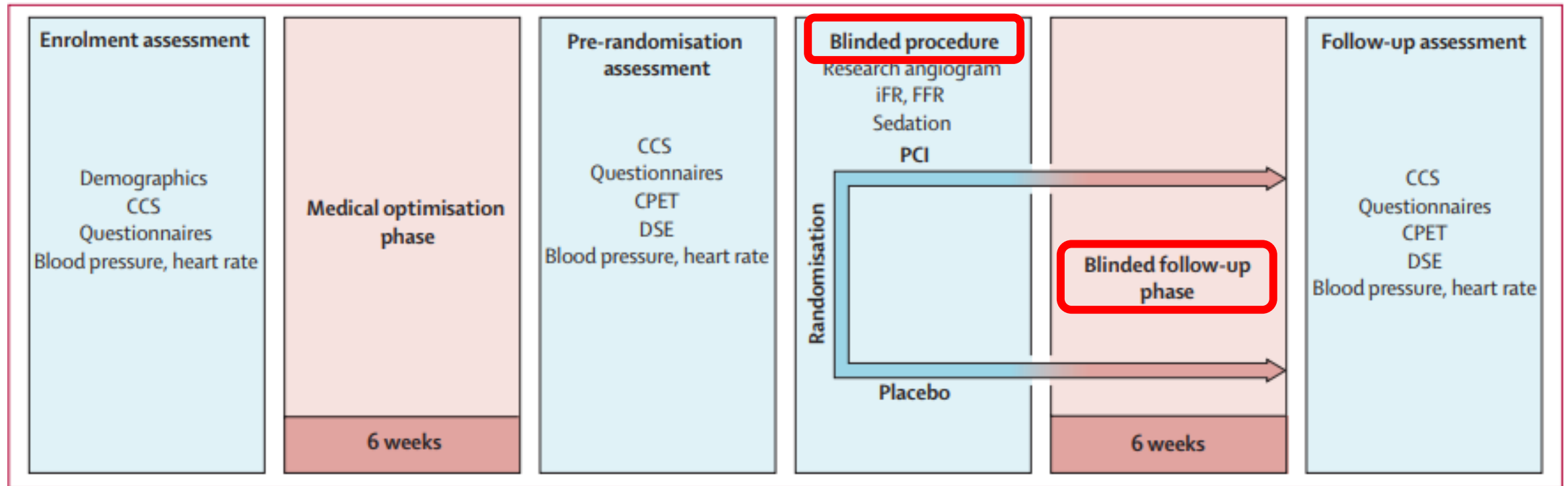
Co nás učili o revaskularizaci...

u chronické ICHS

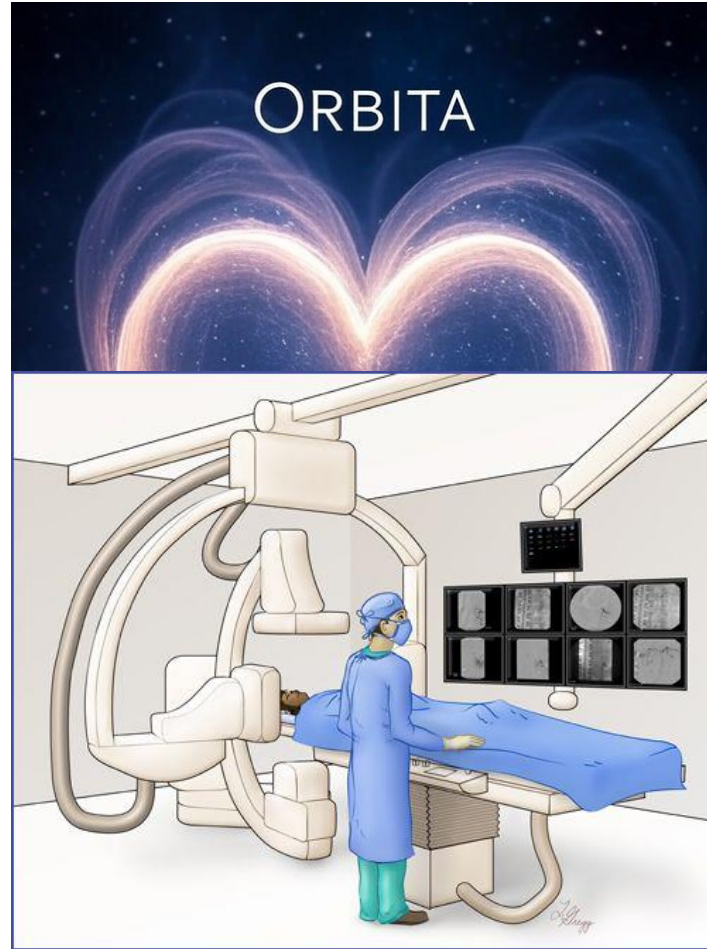
- ~~Zahraňuje a prodlužuje životy~~
- ~~Prevence infarktu myokardu a dalších srdečních příhod~~
- Odstranění anginosních bolestí

Percutaneous coronary intervention in stable angina (ORBITA): a double-blind, randomised controlled trial

Rasha Al-Lamee, David Thompson, Hakim-Moulay Dehbi, Sayan Sen, Kare Tang, John Davies, Thomas Keeble, Michael Mielewczik, Raffi Kaprielian, Iqbal S Malik, Sukhjinder S Nijjer, Ricardo Petraco, Christopher Cook, Yousif Ahmad, James Howard, Christopher Baker, Andrew Sharp, Robert Gerber, Suneel Talwar, Ravi Assomull, Jamil Mayet, Roland Wensel, David Collier, Matthew Shun-Shin, Simon A Thom, Justin E Davies, Darrel P Francis, on behalf of the ORBITA investigators*



Percutaneous coronary intervention in stable angina (ORBITA): a double-blind, randomised controlled trial



Percutaneous
(ORBITA): a

e angina
olled trial



The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812

APRIL 12, 2007

VOL. 356 NO. 15

Optimal Medical Therapy
for Stable Coronary Disease

William E. Boden, M.D., Robert A. O'Rourke, M.D.,
David J. Maron, M.D., William J. Kostuk, M.D.,
Crystal L. Harris, Pharm.D., Bernard J. Gersh, M.D.,
Shah Nawaz, M.D., Lawrence M. Title, M.D.,
Eric R. Bates, M.D., John A. Spertus, M.D.,
and William S. Weintraub, M.D.

Percutaneous coronary intervention in stable angina (ORBITA): a double-blind, randomised controlled trial

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Andrew Sharp, Robert Gerber, Suneel Talwar, Ravinder
Justin E Davies, Darrel P Francis, on behalf of the

The NEW ENGLAND JOURNAL of MEDICINE

VOL. 382 NO. 15

STABLE CAD

A meta-analysis of optimal medical therapy with or without percutaneous coronary intervention in patients with stable coronary artery disease

Shah, Rahman^{a,b}; Nayyar, Mannu^a; Le, Francis K^b; Labroo, Ajay^b; Nasr, Abrar^c; Rashid, Abdul^d; Davis, Donnie
A^b; Weintraub, William S.^e; Boden, William E.^{f,g}

[Author Information](#) ✓

Coronary Artery Disease 33(2):p 91-97, March 2022. | DOI: 10.1097/MCA.0000000000001041

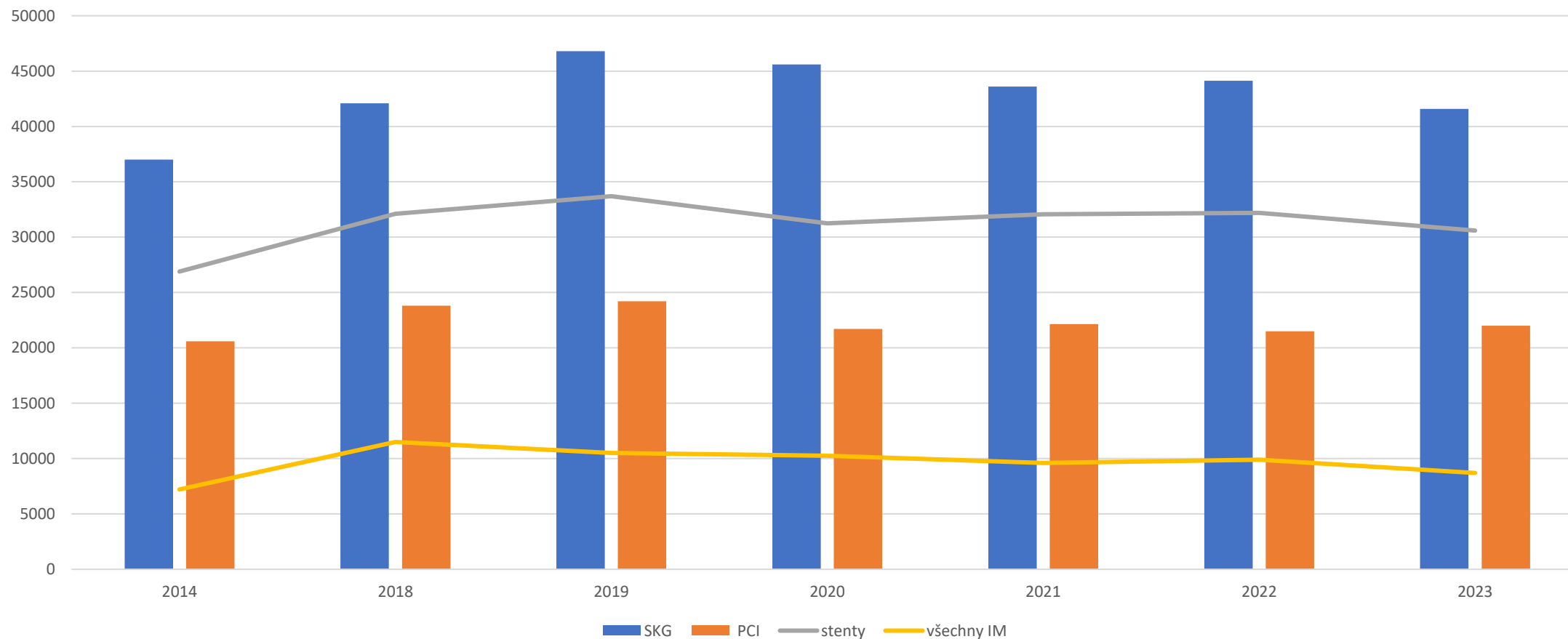
for Stable Coronary Disease

W.E. Boden, B.R. Chaitman, R. Senior,
J.D. Newman, M.S. Sidhu, S.G. Goodman,
K. Min, G.B.J. Mancini, D.S. Berman, M.H. Picard,
N. Moorthy, W.A. Hueb, M. Demkow,
M. Keltai, J.B. Selvanayagam, P.G. Steg, C. Held,
F.W. Rockhold, S. Broderick, T.B. Ferguson, Jr.,
for the ISCHEMIA Research Group*

Reakce intervenčních kardiologů



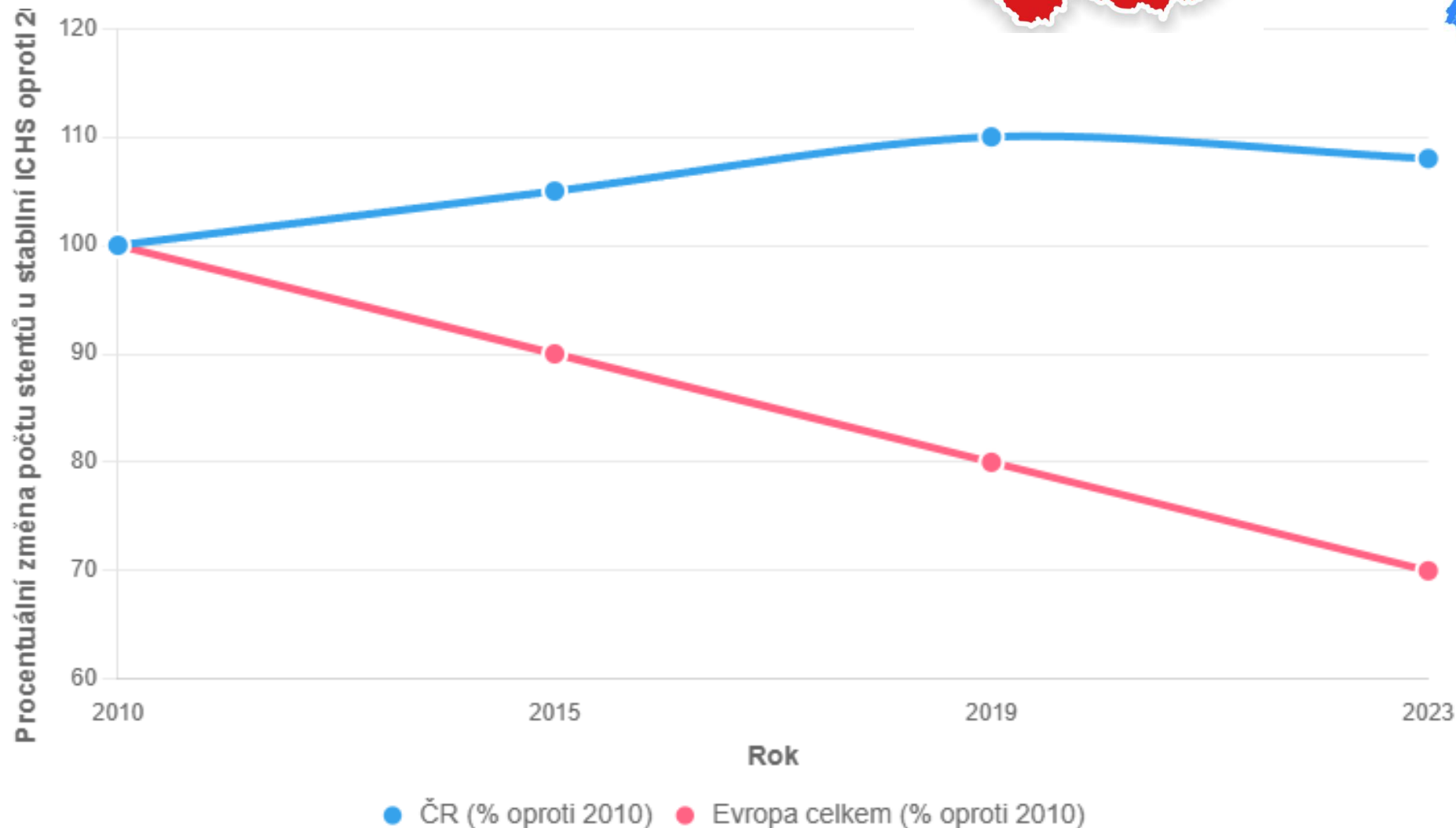
Koronární intervence 2014-2023



Stenty u stabilní ICHS



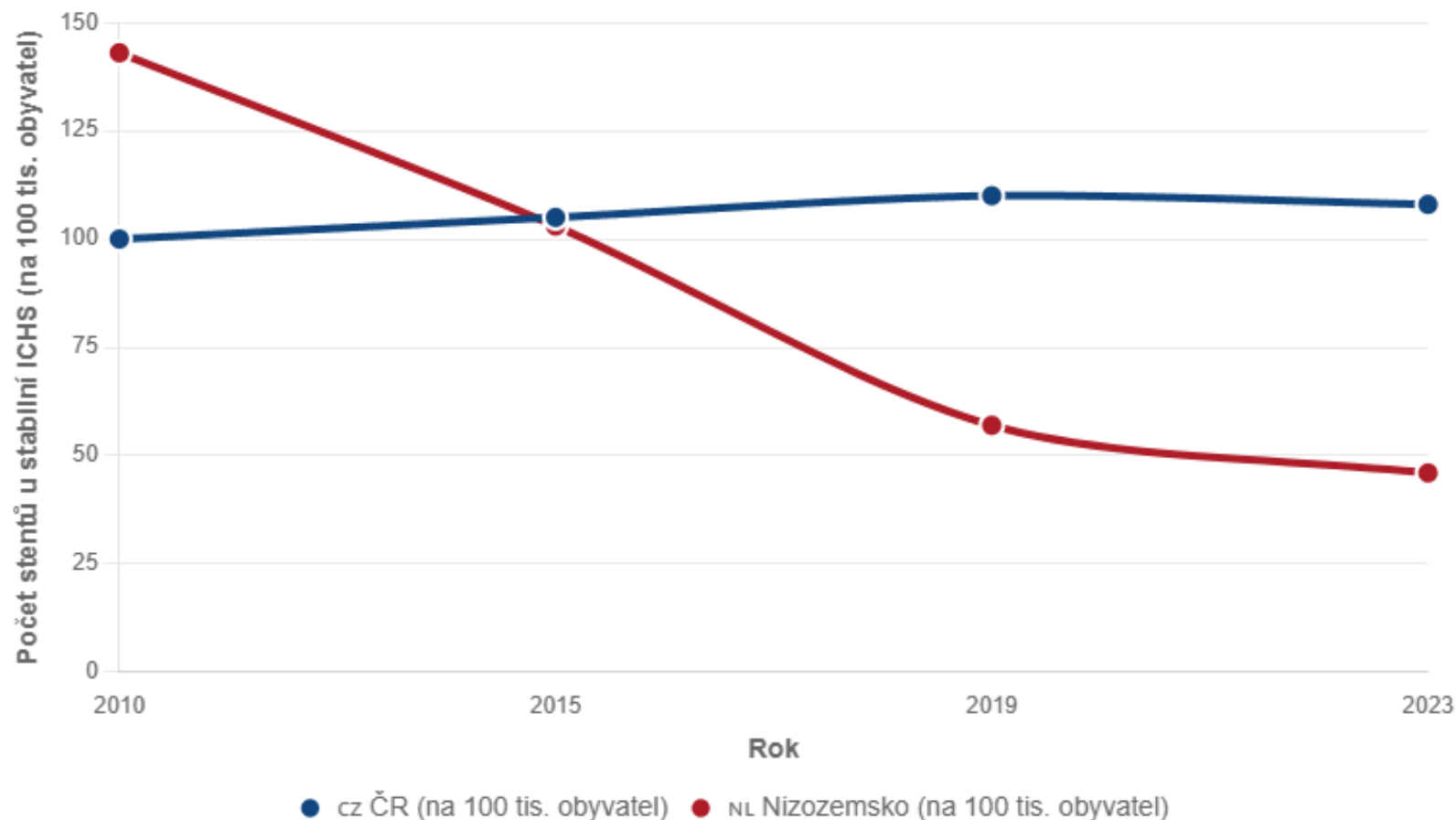
vs



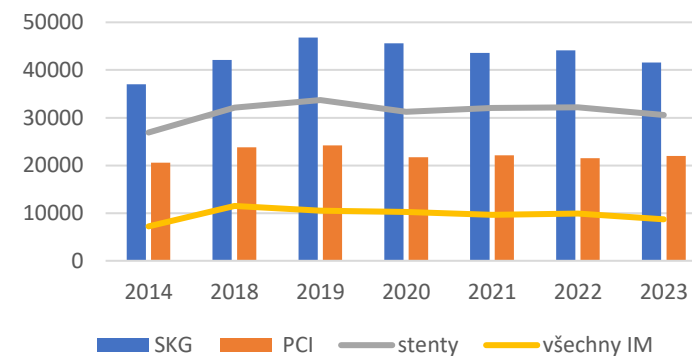
Stenty u stabilní ICHS

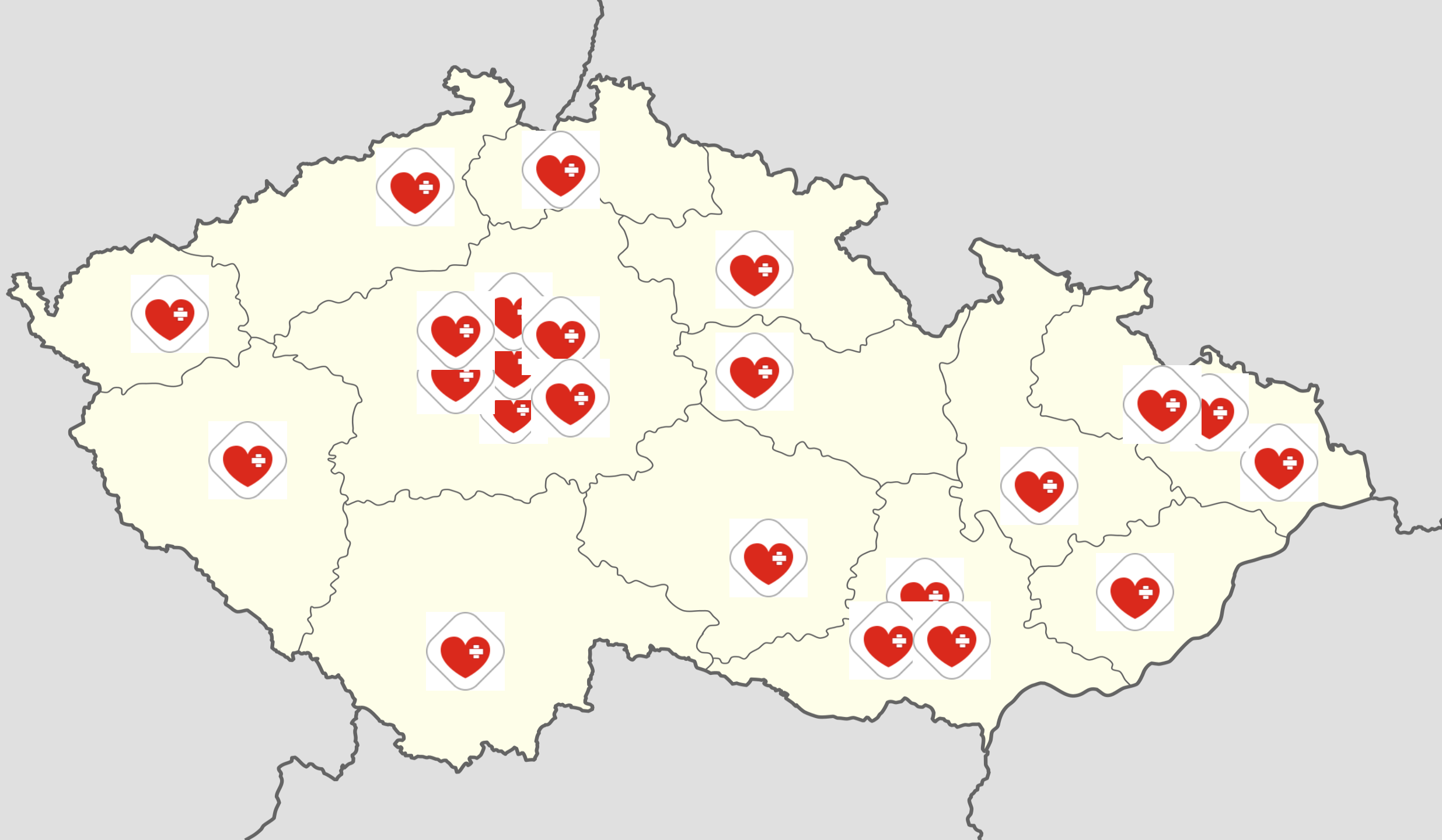


vs



Jde to jinak ?





PROČ ?

- Když vidím významnou stenózu, tak ji tam přeci nenechám
- Moji pacienti nemají rádi tolik prášků
- Když to neudělám já, udělá to konkurence
- Anesteziolog ho jinak neuspí na banální výkon
- Ve studiích jsou méně nemocní pacienti

The NEW ENGLAND JOURNAL *of* MEDICINE

ESTABLISHED IN 1812

OCTOBER 13, 2022

VOL. 387 NO. 15

Percutaneous Revascularization for Ischemic Left Ventricular Dysfunction

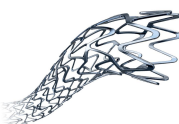
Divaka Perera, M.D., Tim Clayton, M.Sc., Peter D. O'Kane, M.D., John P. Greenwood, Ph.D., Roshan Weerackody, Ph.D., Matthew Ryan, Ph.D., Holly P. Morgan, M.B., B.Ch., Matthew Dodd, M.Sc., Richard Evans, B.A., Ruth Canter, M.Sc., Sophie Arnold, M.Sc., Lana J. Dixon, Ph.D., Richard J. Edwards, Ph.D., Kalpa De Silva, Ph.D., James C. Spratt, M.D., Dwayne Conway, M.D., James Cotton, M.D., Margaret McEntegart, Ph.D., Amedeo Chiribiri, Ph.D., Pedro Saramago, Ph.D., Anthony Gershlick, M.D., Ajay M. Shah, M.D., Andrew L. Clark, M.D., and Mark C. Petrie, M.D., for the REVIVED-BCIS2 Investigators*

United Kingdom



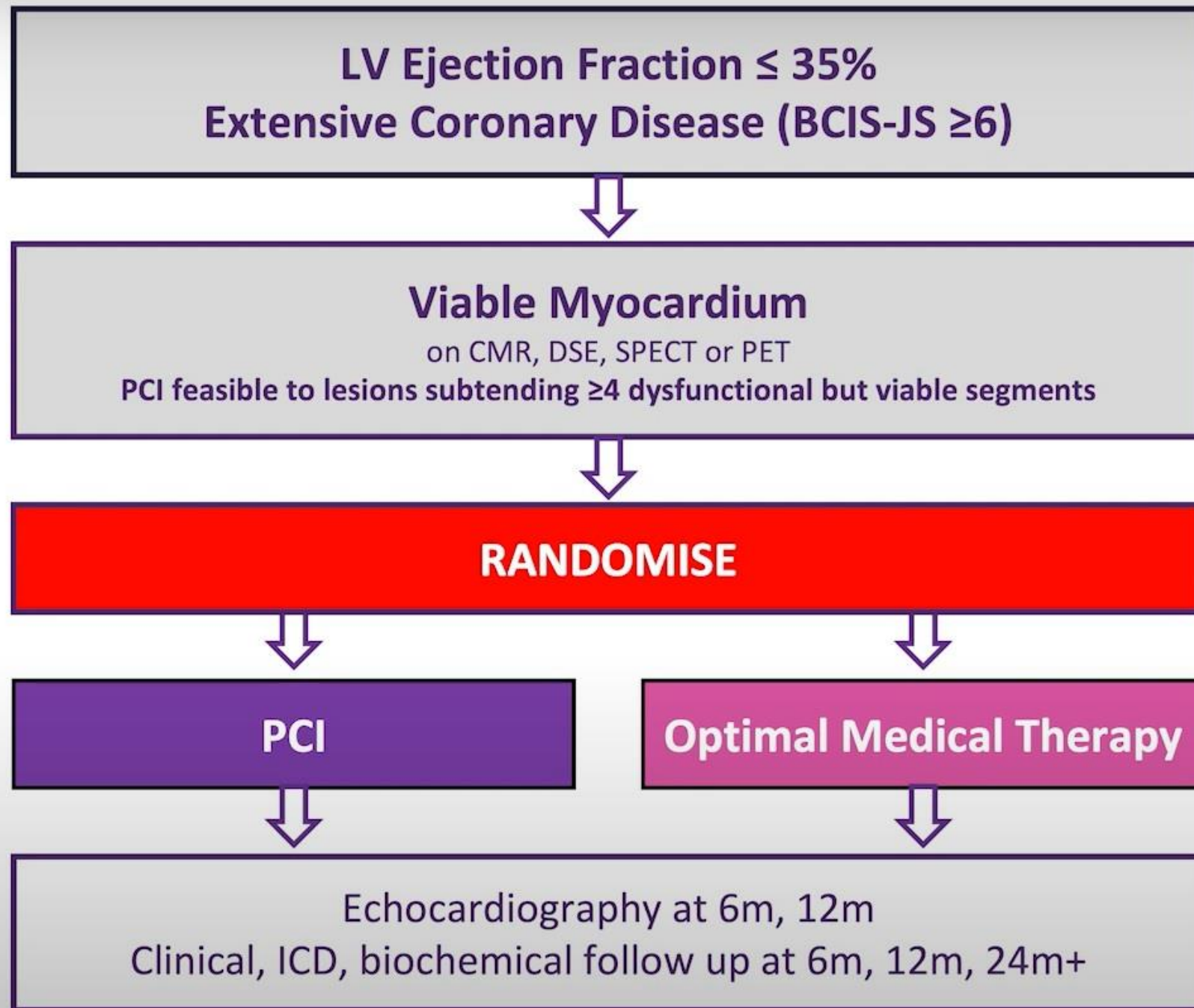
REVascularisation for **I**schaemic **V**entricular
Dysfunction
(REVIVED-BCIS2)



 +  347

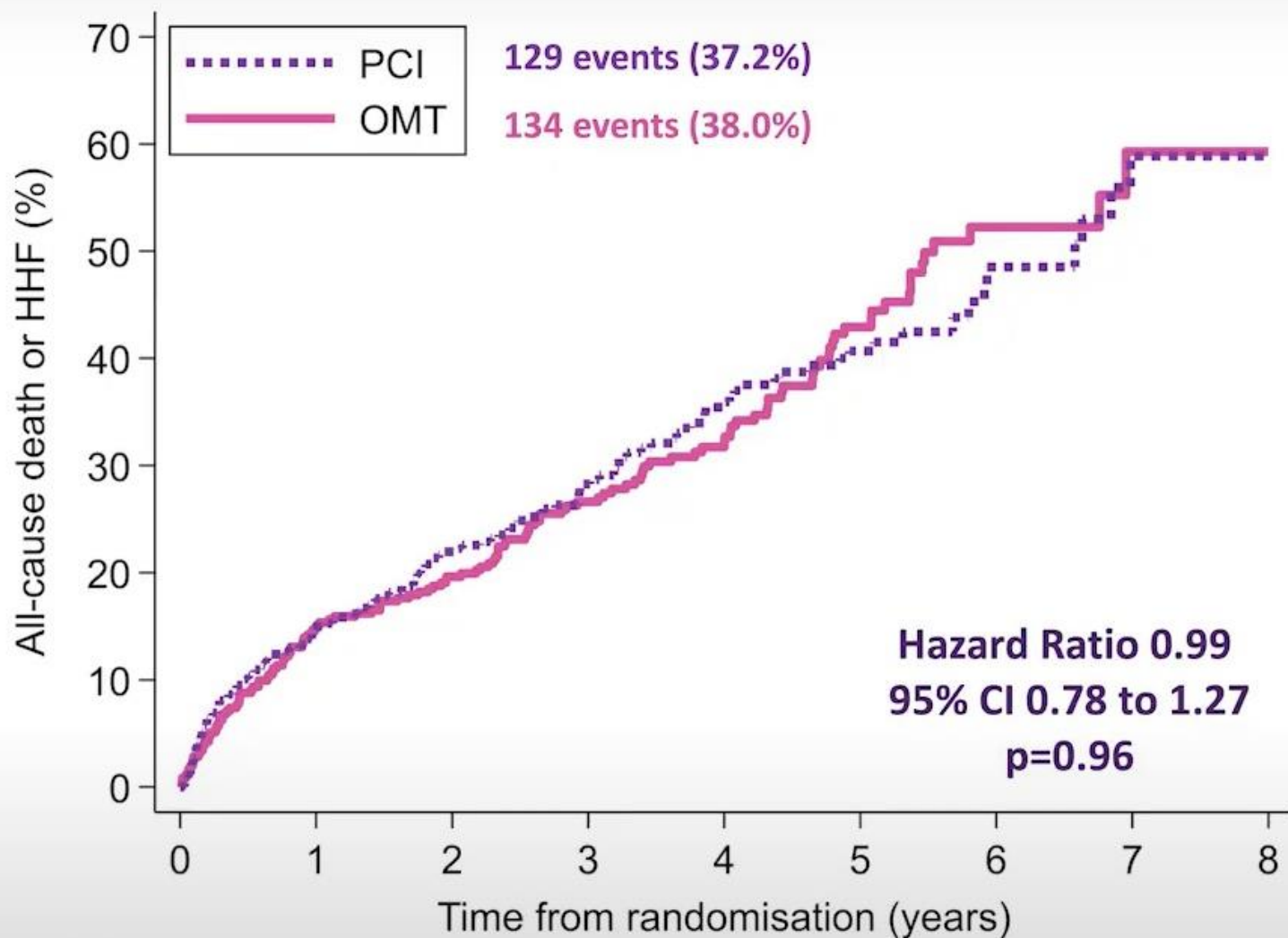
 353

Perera D et al, JACC HF 2018





Primary Outcome



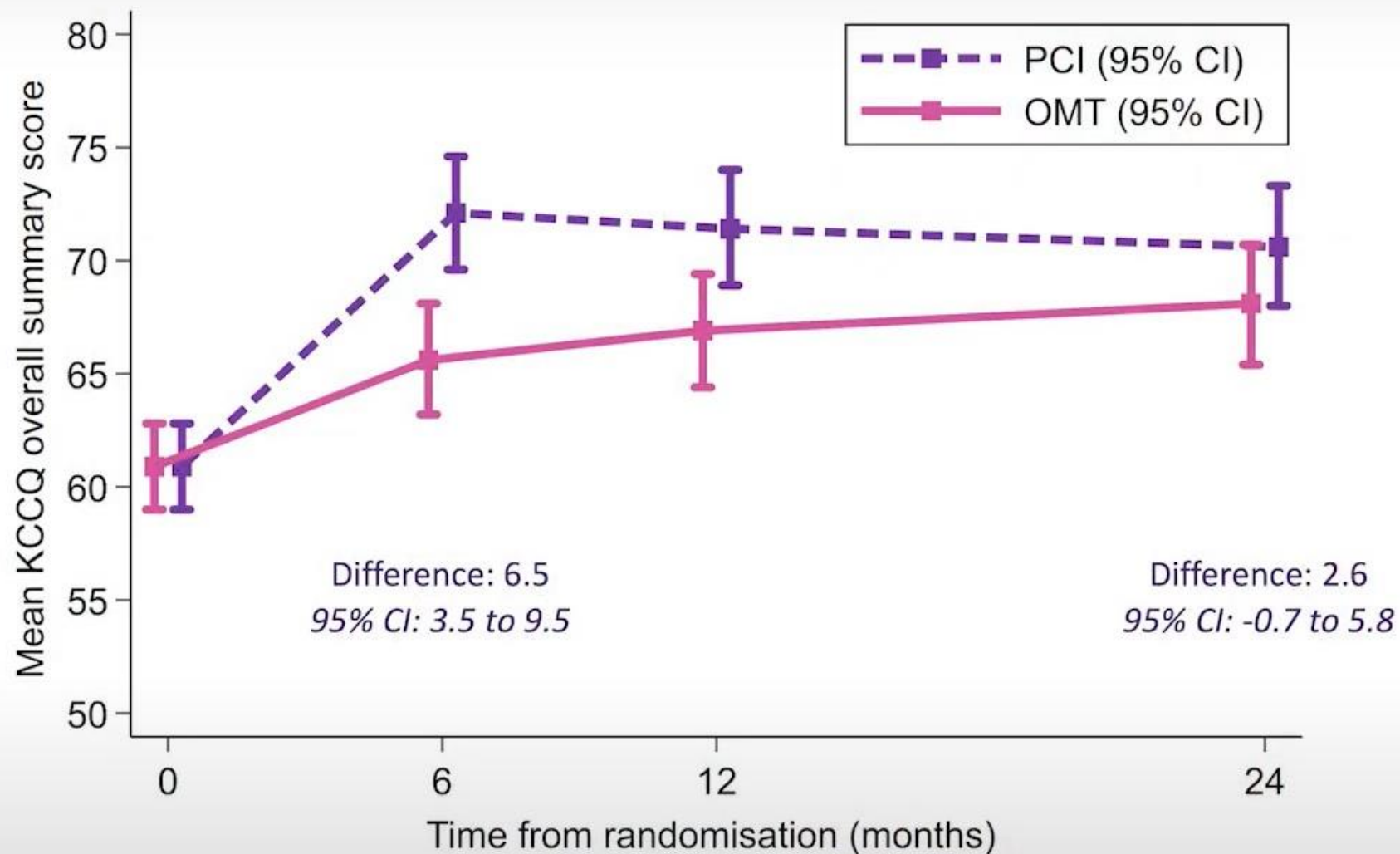
Number at risk

PCI	347	295	262	179	130	80	32	14	3
OMT	353	299	276	191	142	82	33	10	1



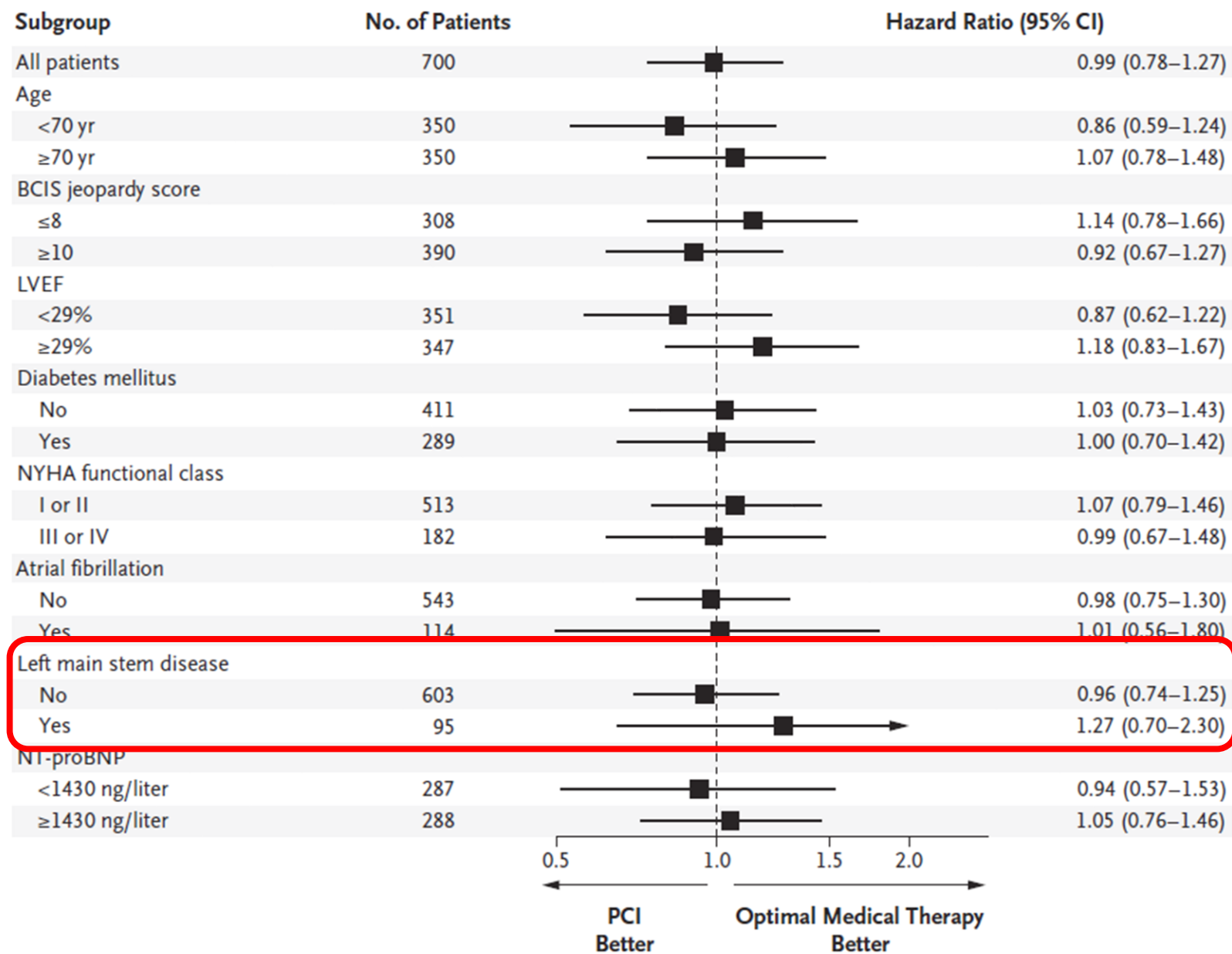
**Major
secondary
outcome:
KCCQ Score**

score ranges from
0 (very poor health) to
100 (excellent health)

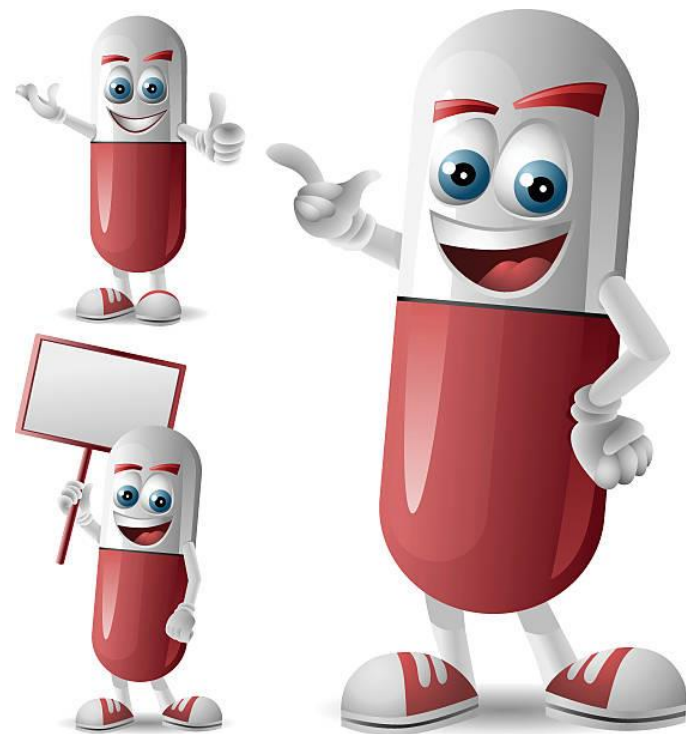


Number followed up

PCI	319	270	268	228
OMT	318	285	268	228

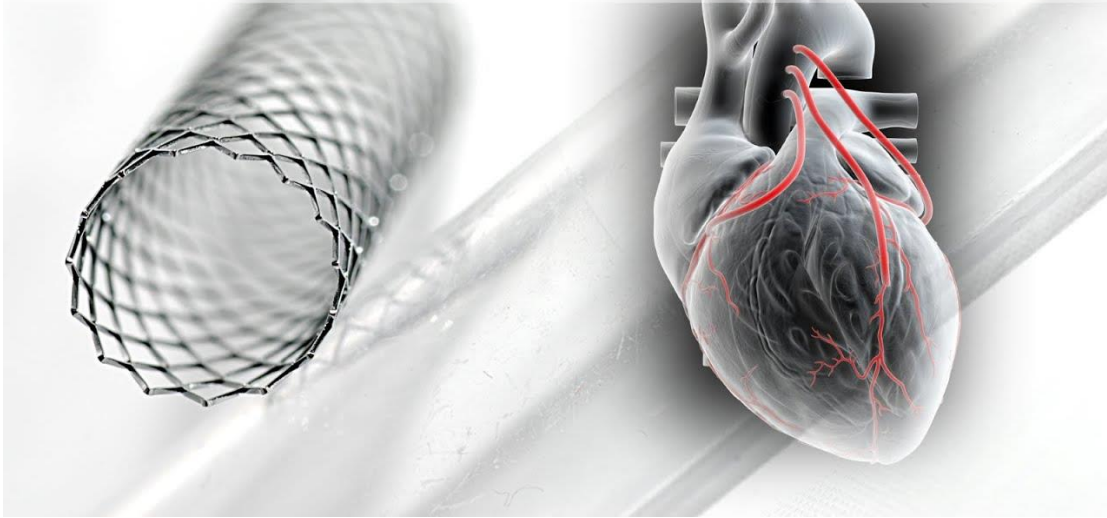


Stenty vs prášky

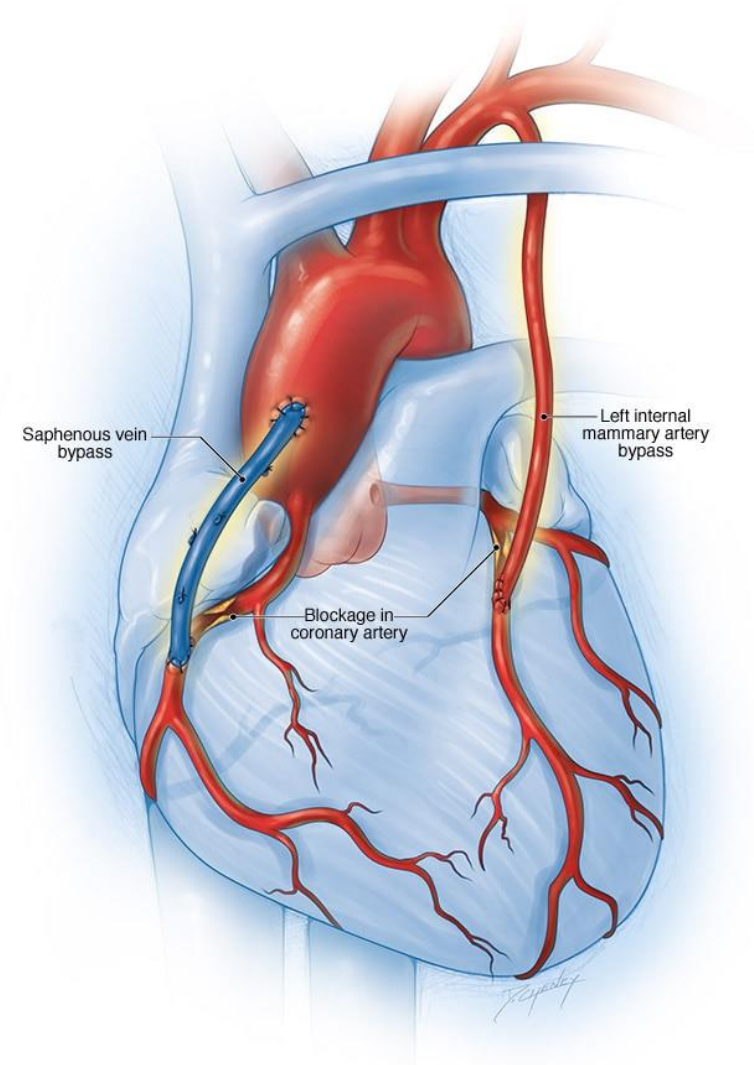




STENT or BYPASS SURGERY?



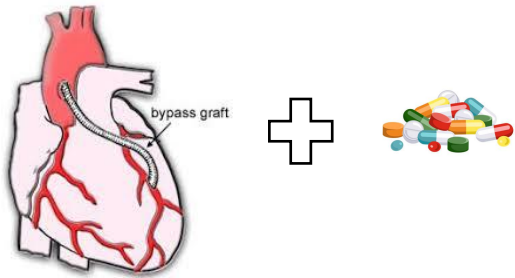
<https://www.youtube.com/watch?v=RAFK4jr6JRs>



<https://www.mayoclinic.org/tests-procedures/coronary-bypass-surgery/about/pac-20384589>

Stitch trial

ICHs, EF $\leq$ 35%



610



602

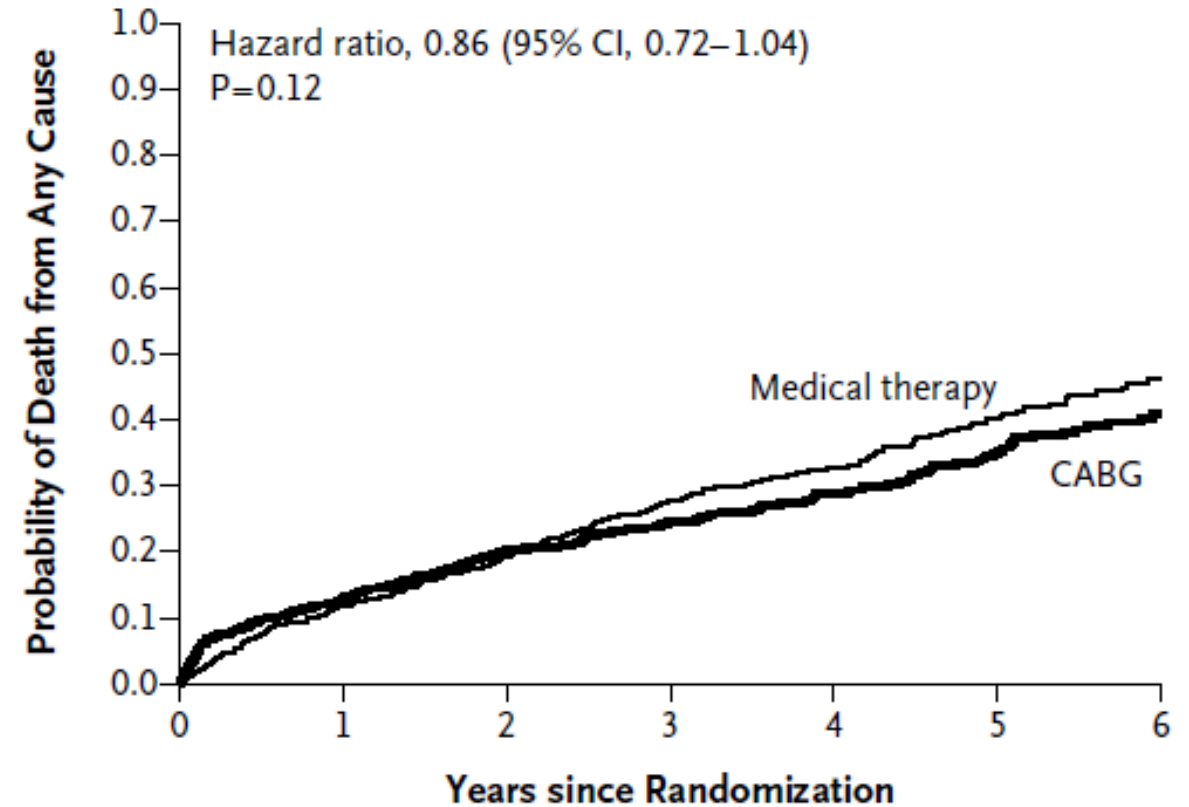
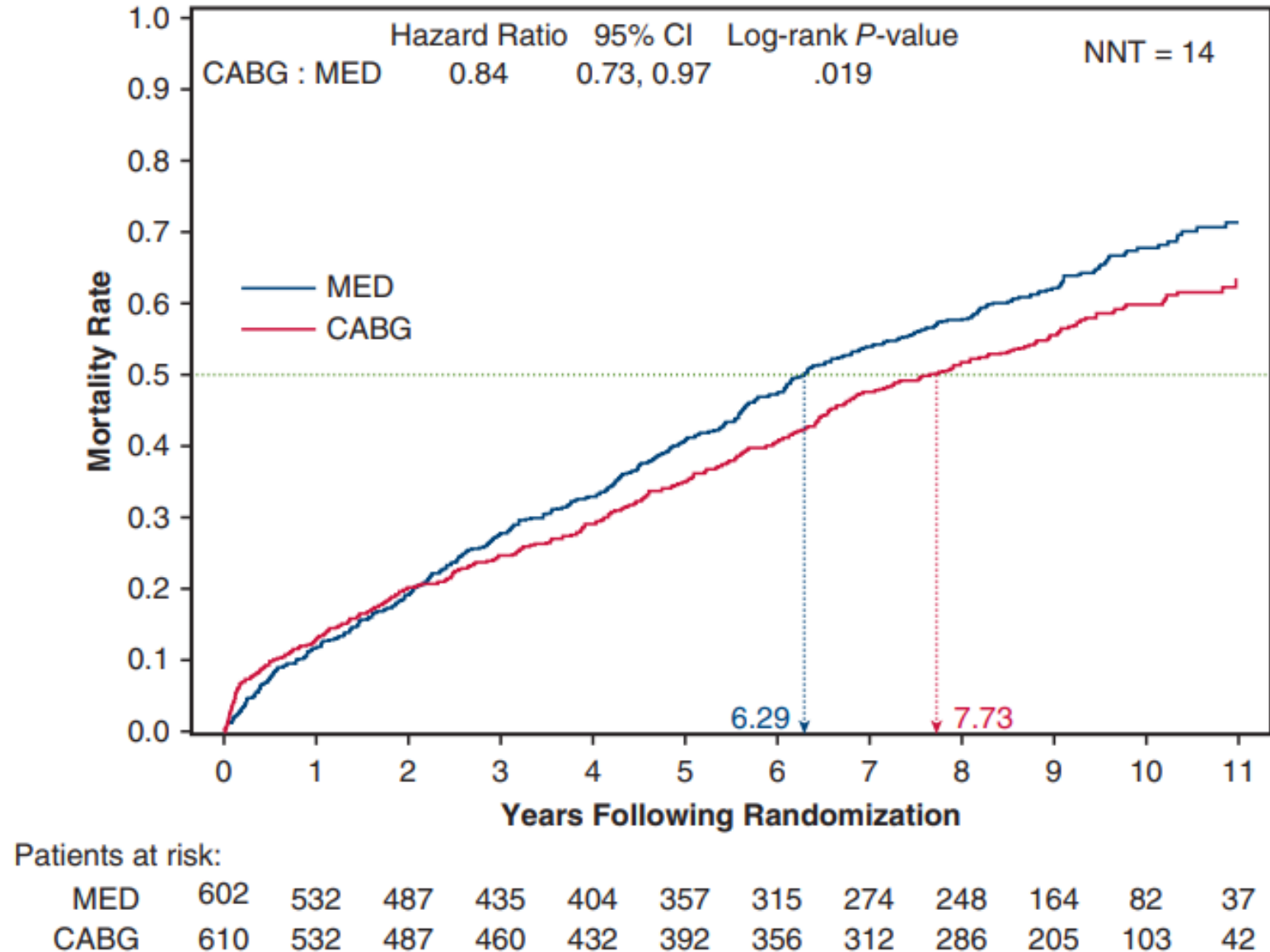
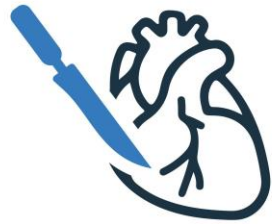
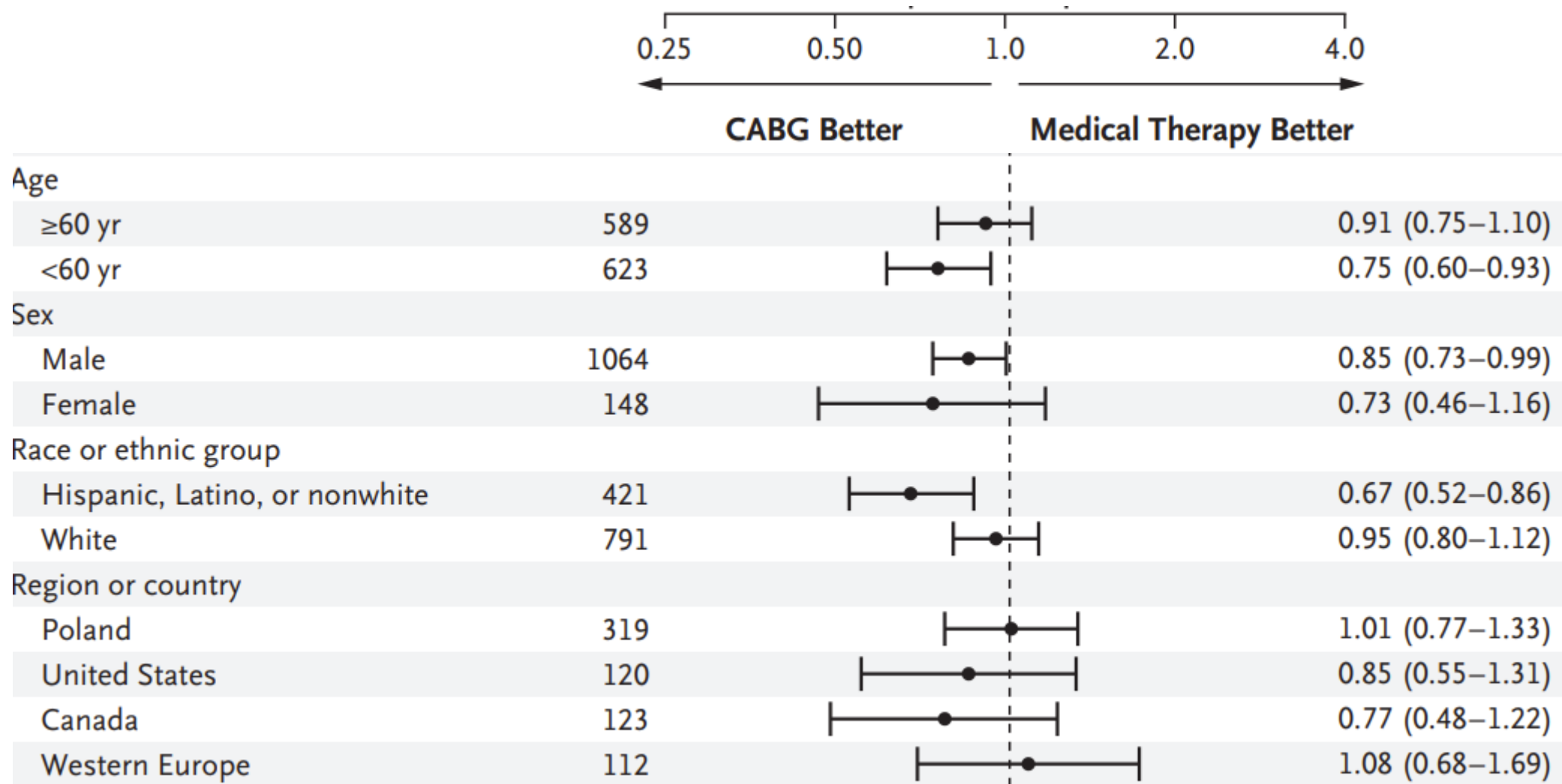


Figure 1. Kaplan–Meier Curves for the Probability of Death from Any Cause. CABG denotes coronary-artery bypass grafting.

Stitch trial



Coronary-Artery Bypass Surgery in Patients with Ischemic Cardiomyopathy



NEutestovat & NEuléčit

CLINICAL STATEMENTS
AND GUIDELINES

Testing is also expensive and may lead to unnecessary downstream testing or delays in performing the indicated surgery.¹² Moreover, preoperative revascularization has not been shown to reduce perioperative MACE or cardiac mortality, and there is high potential for overtesting and overtreatment unless further perioperative testing

NEutestovat & NEulěčit

CLINICAL STATEMENTS
AND GUIDELINES

Testing is also expensive and may lead to unnecessary downstream testing or delays in performing the indicated surgery.¹² Moreover, preoperative revascularization has not been shown to reduce perioperative MACE or cardiac mortality, and there is high potential for overtesting and overtreatment unless further perioperative testing

SKG ne u stabilní ICHS !!!

CLINICAL STATEMENTS
AND GUIDELINES

4.6. Invasive Coronary Angiography

Recommendation for Invasive Coronary Angiography		
COR	LOE	Recommendation
3: No benefit	C-LD	1. In patients undergoing NCS, routine preoperative invasive coronary angiography (ICA) is not recommended to improve perioperative outcomes. ^{1,2}

2024 AHA/ACC/ACS/ASNC/HRS/SCA/SCCT/SCMR/SVM Guideline for Perioperative Cardiovascular Management for Noncardiac Surgery: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines



VFN





Anestezie u pacienta s ICHS

MUDr. Hana Harazim, Ph.D., MUDr. Daniel Barvík, Veronika Krátká, Renáta Nevelošová

▶ Spustit interaktivní algoritmus

English

Otestovat své znalosti



Ischemická choroba srdeční je jednou z nejčastějších diagnóz v naší populaci, zároveň představuje nejčastější příčinu úmrtí v České republice. Díváme se tedy na velkou skupinu pacientů, a tak je velká pravděpodobnost, že se u některých z nich setkáme s komorbiditami, které bude třeba operačně vyřešit i se ztřetelem k tomuto onemocnění. Postupně algoritmus provede řešitele různými aspekty anestezie a perioperačního managementu u pacienta s ischemickou chorobou srdeční. Důraz je kladen i na některé situace, které mohou nastat v průběhu operace a jejich řešení.

<https://www.akutne.cz/algorithm/cs/564-anestezie-u-pacienta-s-ichs/>

Děkuji za pozornost

