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JUN 2019

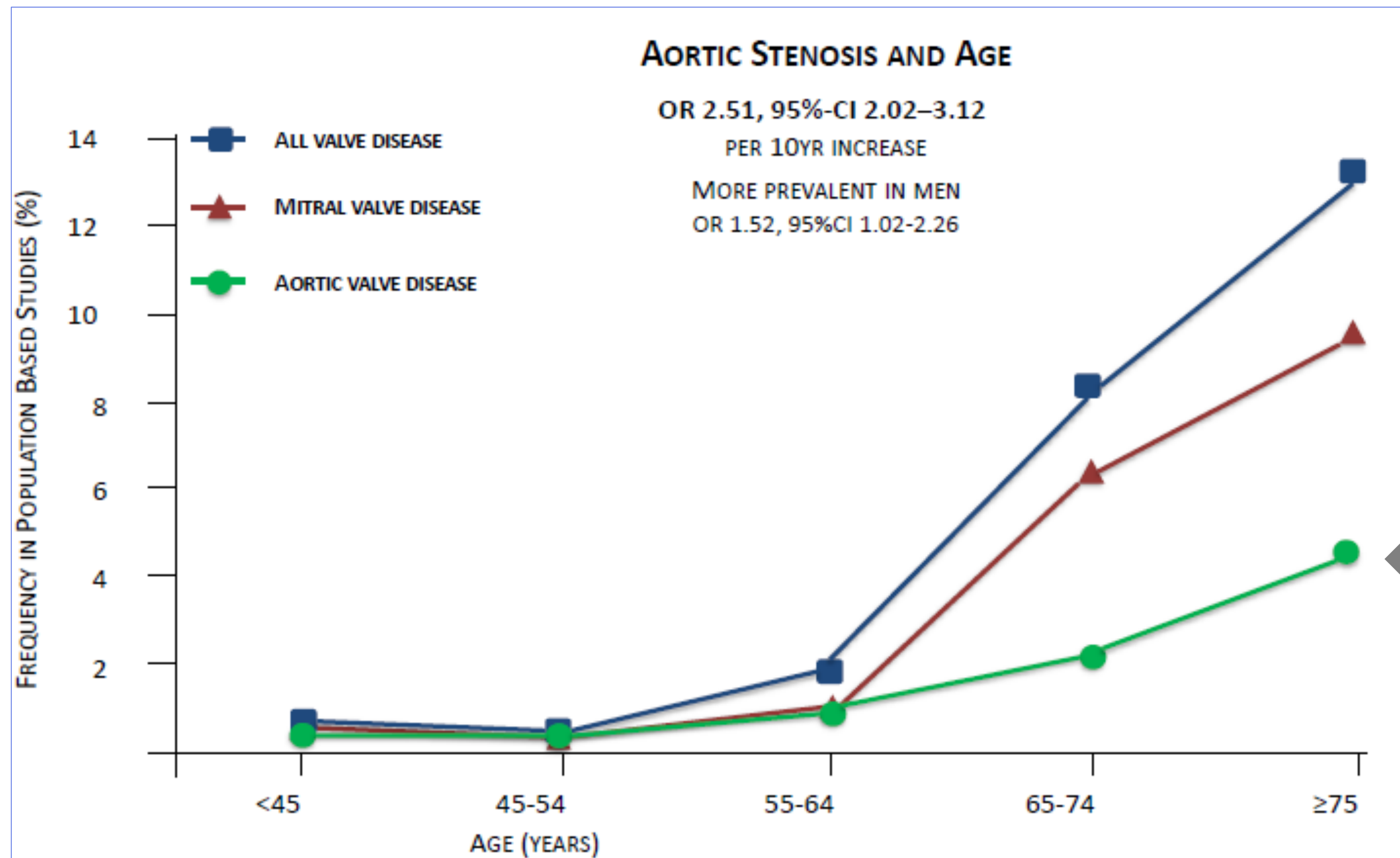


Dernières évidences cliniques sur le TAVI

TAVI et coronaires

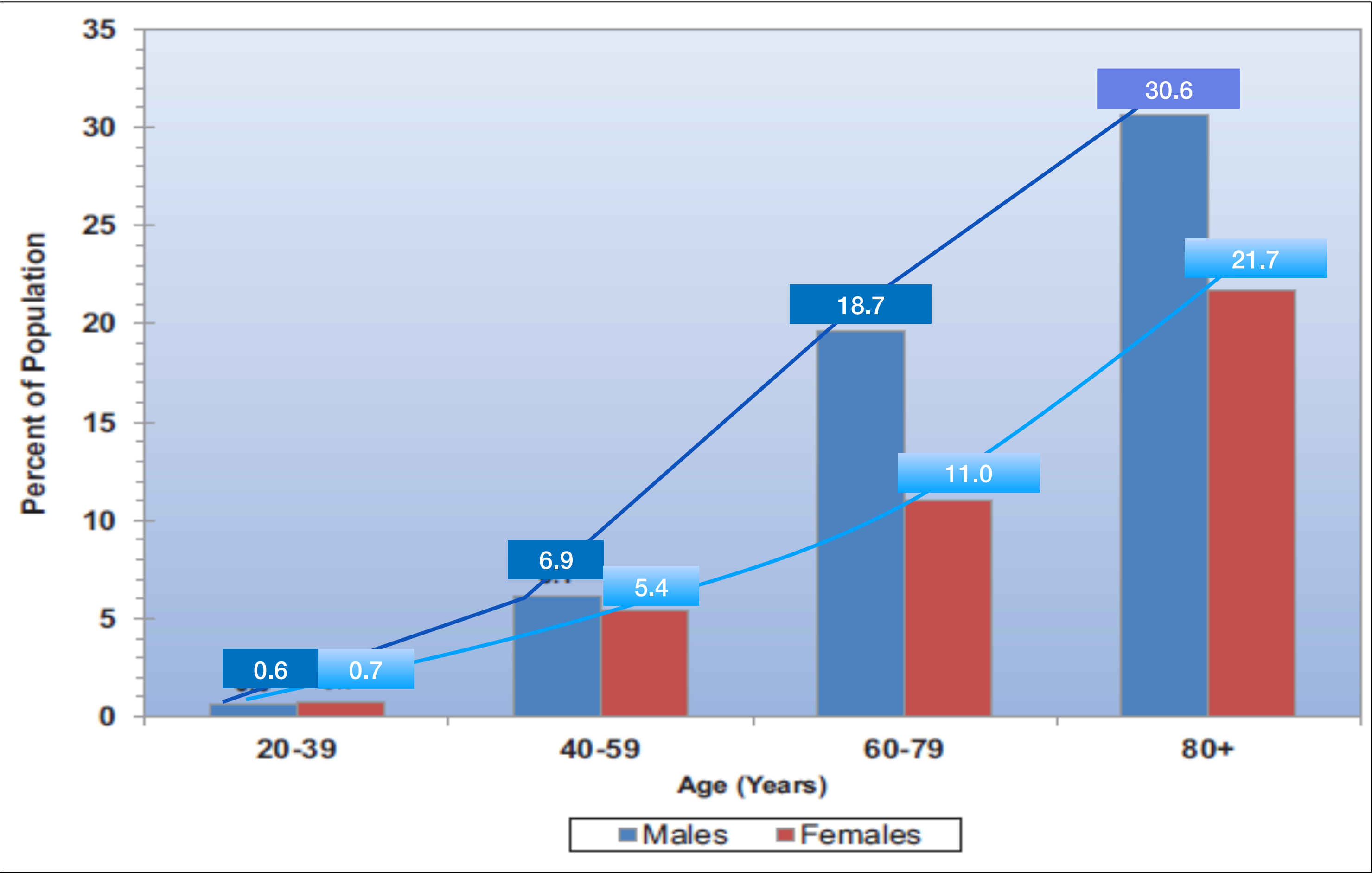
Olivier Darremont
Clinique St Augustin, Bordeaux
Biarritz le 5 juin 2019

Prévalence de la sténose aortique : augmente avec l'âge



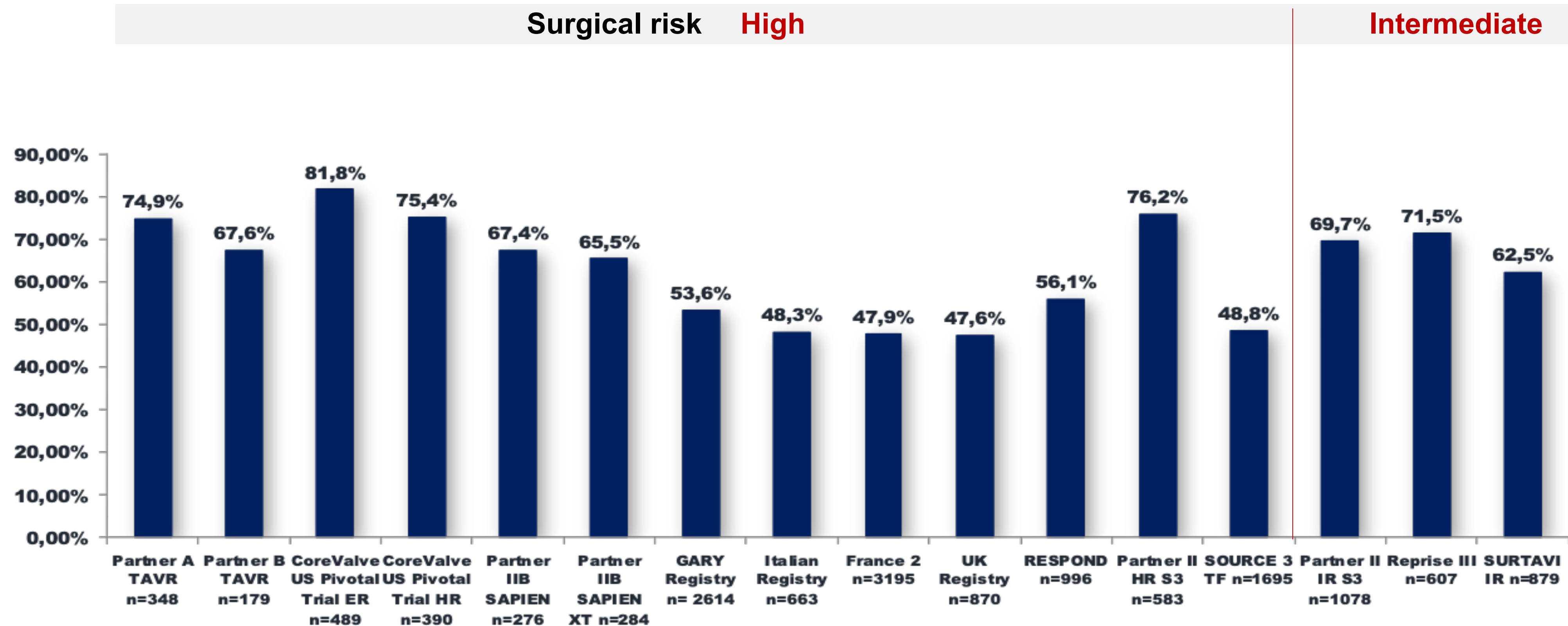
Moderate to severe Aortic Stenosis

Prévalence de la maladie coronaire : augmente avec l'âge!



Prevalence of coronary heart disease by age and sex (NHANES: 2011-2014).
NHANES indicates National Health and Nutrition Examination Survey.


Maladie coronaire dans les études TAVI

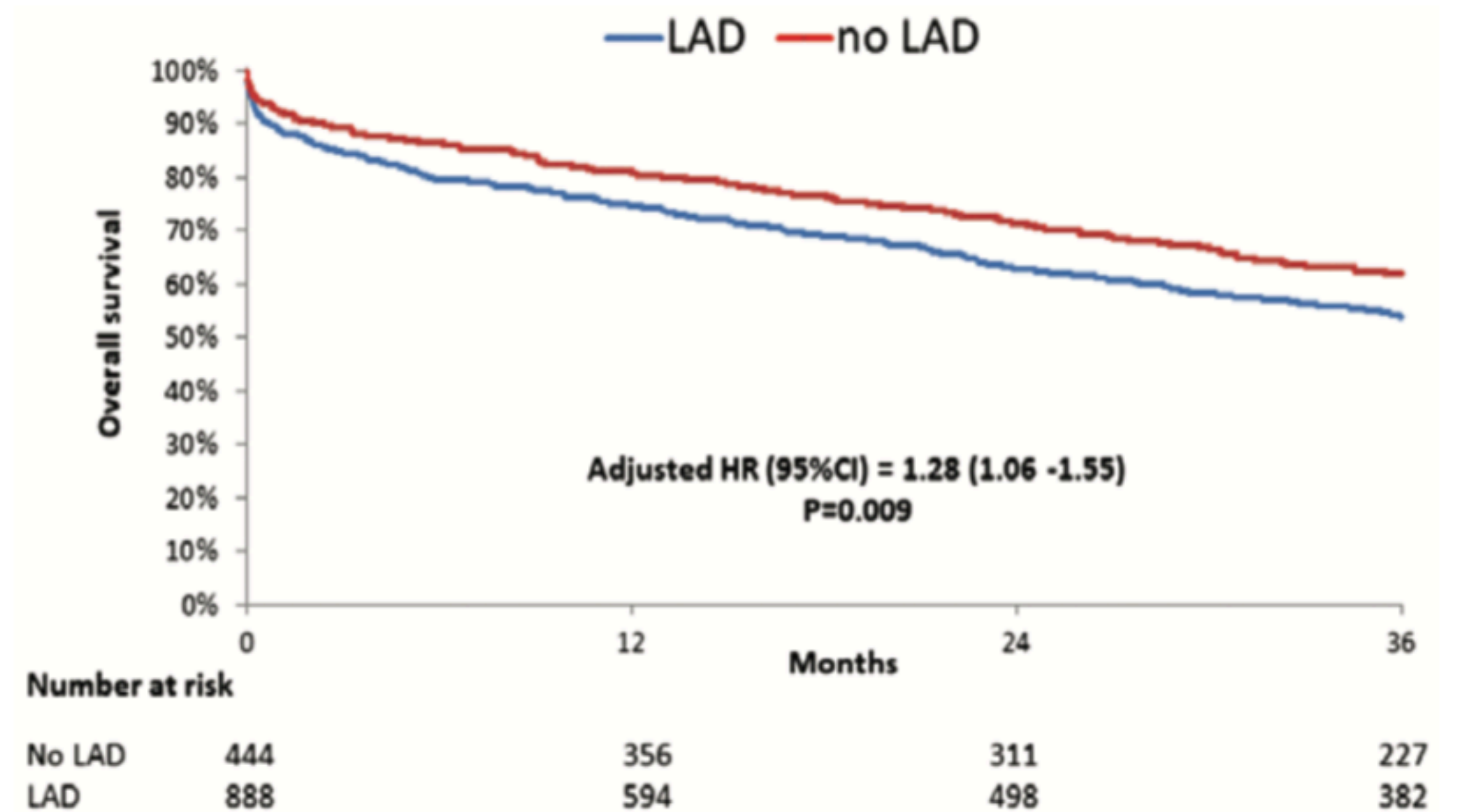
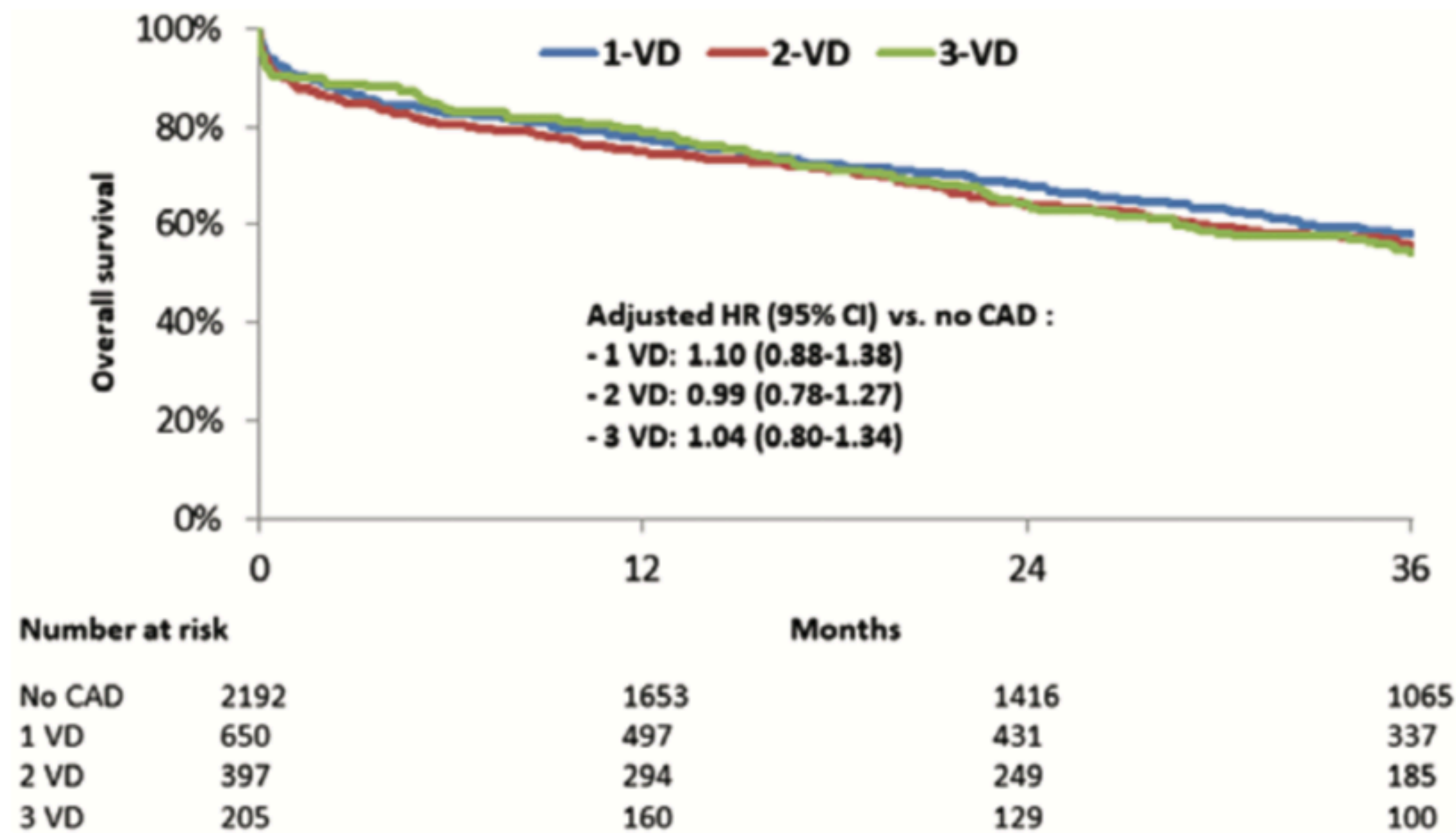


✓ De 48% à 82% dans les études „all comers“

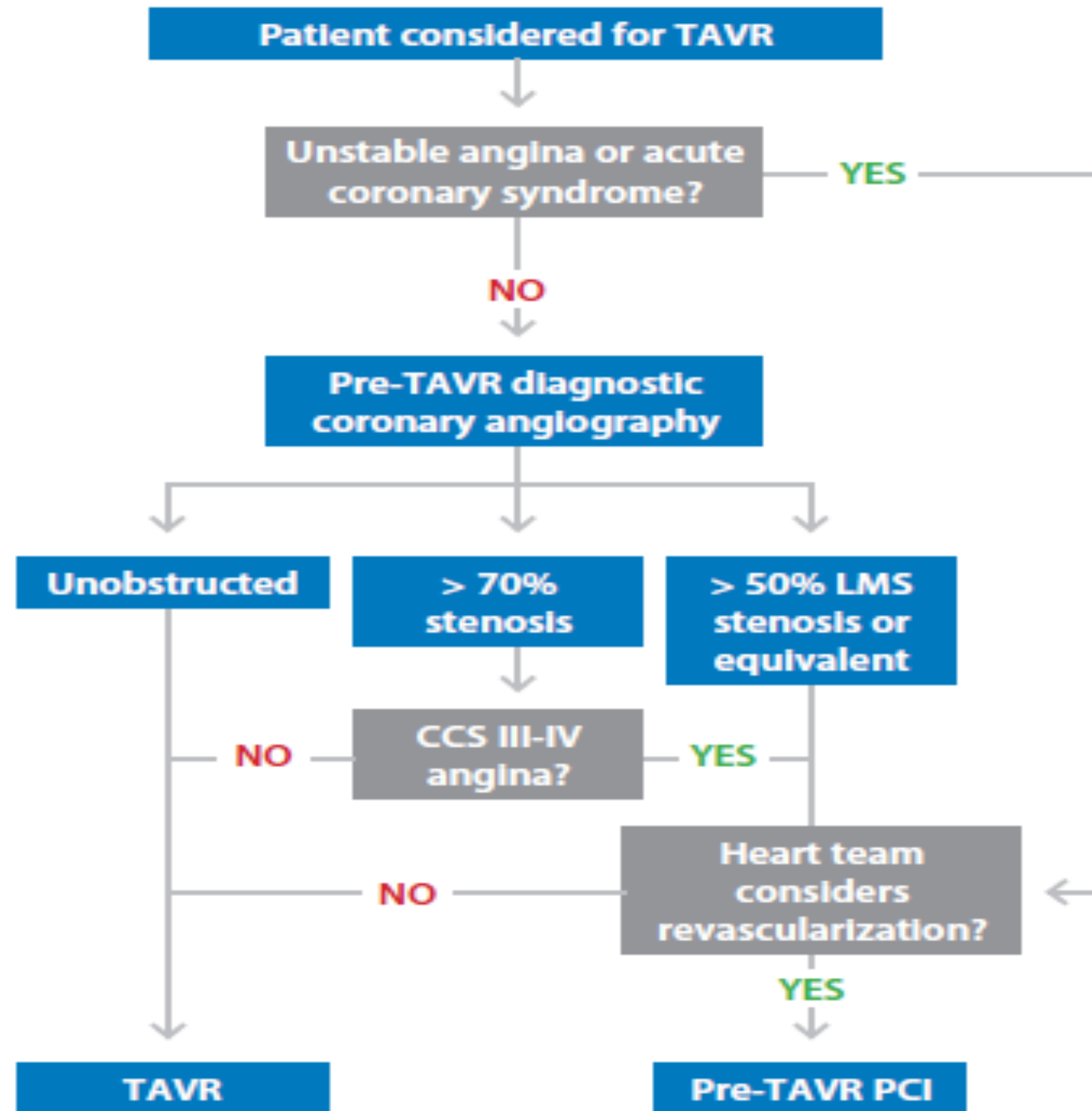
✓ 2/3 des patients dans les études TAVI risque intermédiaire

Impact of coronary artery disease in patients undergoing transcatheter aortic valve replacement: Insights from the FRANCE-2 registry

Etienne Puymirat¹  | Romain Didier² | H el ene Eltchaninoff³ | Bernard Lung⁴ | Jean-Philippe Collet⁵ | Dominique Himbert⁴ | Eric Durand³ | Alain Leguerrier⁶ | Pascal Leprince⁷ | Jean Fajadet⁸ | Emmanuel Teiger⁹ | Karine Chevreul¹⁰ | Michel Li evre¹¹ | Didier Tchetch e⁸ | Florence Leclercq¹² | St ephane Chassaing¹³ | Herv e Le Breton¹⁴ | Patrick Donzeau-Gouge¹⁵ | Thierry Lef evre¹⁵ | Didier Carri e¹⁶ | Martine Gillard² | Didier Blanchard¹

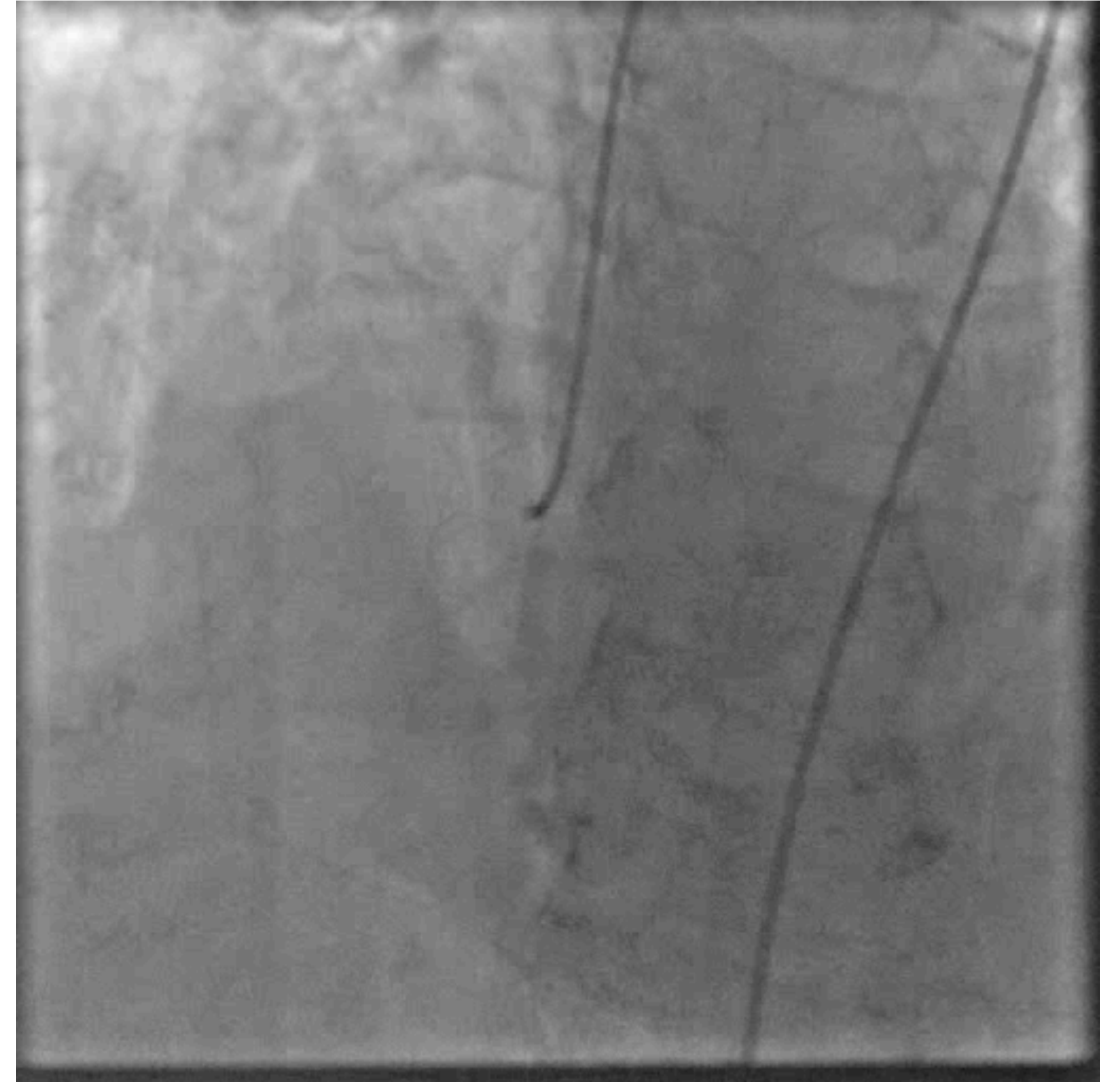
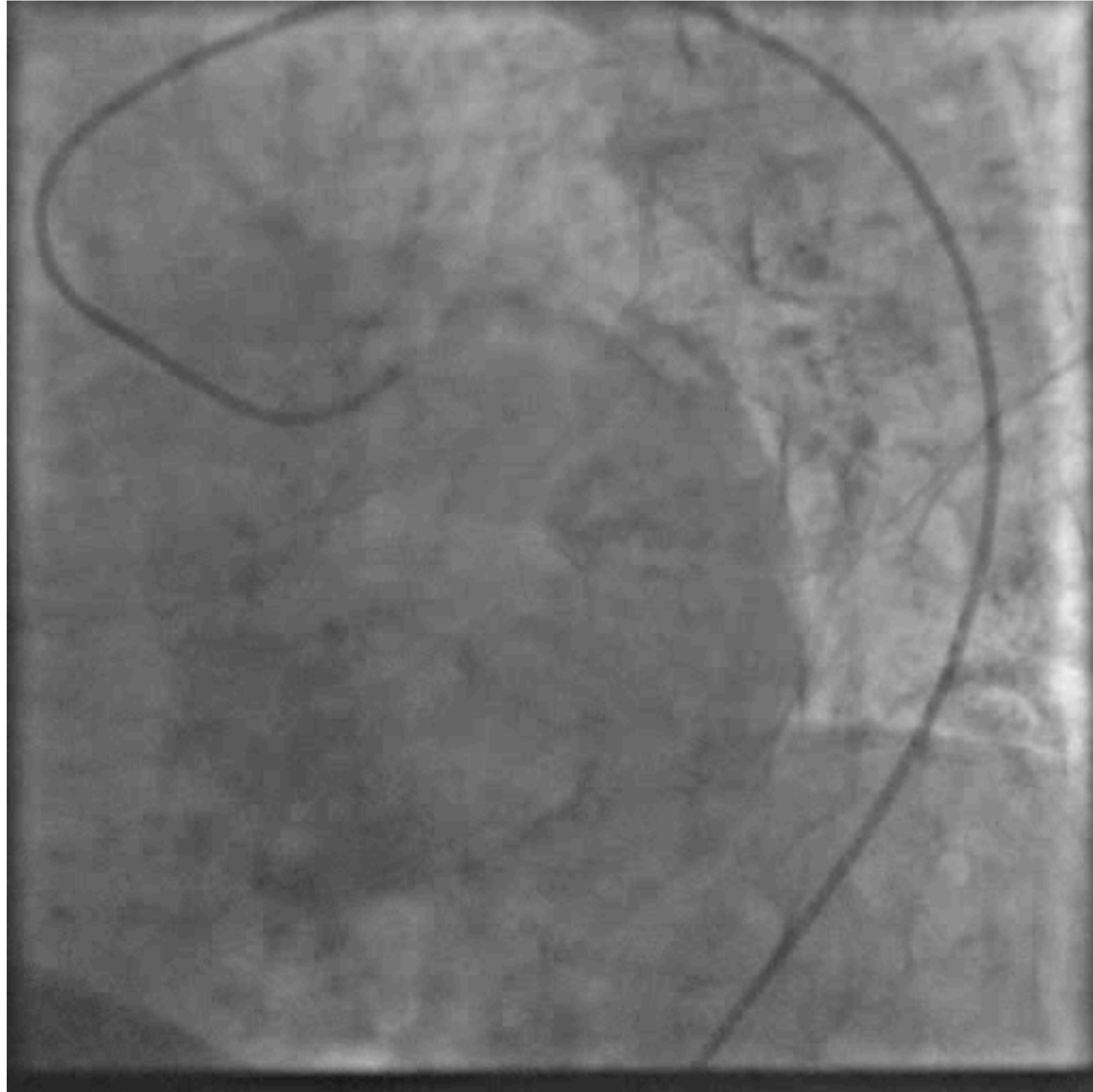


Traitement des lésions coronaires et TAVI : ESC Guidelines



| Primary valve intervention and coronary revascularization | | |
|---|-----|---|
| CABG is recommended in patients with a primary indication for aortic/mitral valve surgery and coronary artery diameter stenosis >70%. | I | C |
| CABG should be considered in patients with a primary indication for aortic/mitral valve surgery and coronary artery diameter stenosis of 50–70%. | IIa | C |
| PCI should be considered in patients with a primary indication to undergo TAVI and coronary artery diameter stenosis >70% in proximal segments. | IIa | C |
| PCI should be considered in patients with a primary indication to undergo transcatheter mitral valve interventions and coronary artery diameter stenosis >70% in proximal segments. | IIa | C |

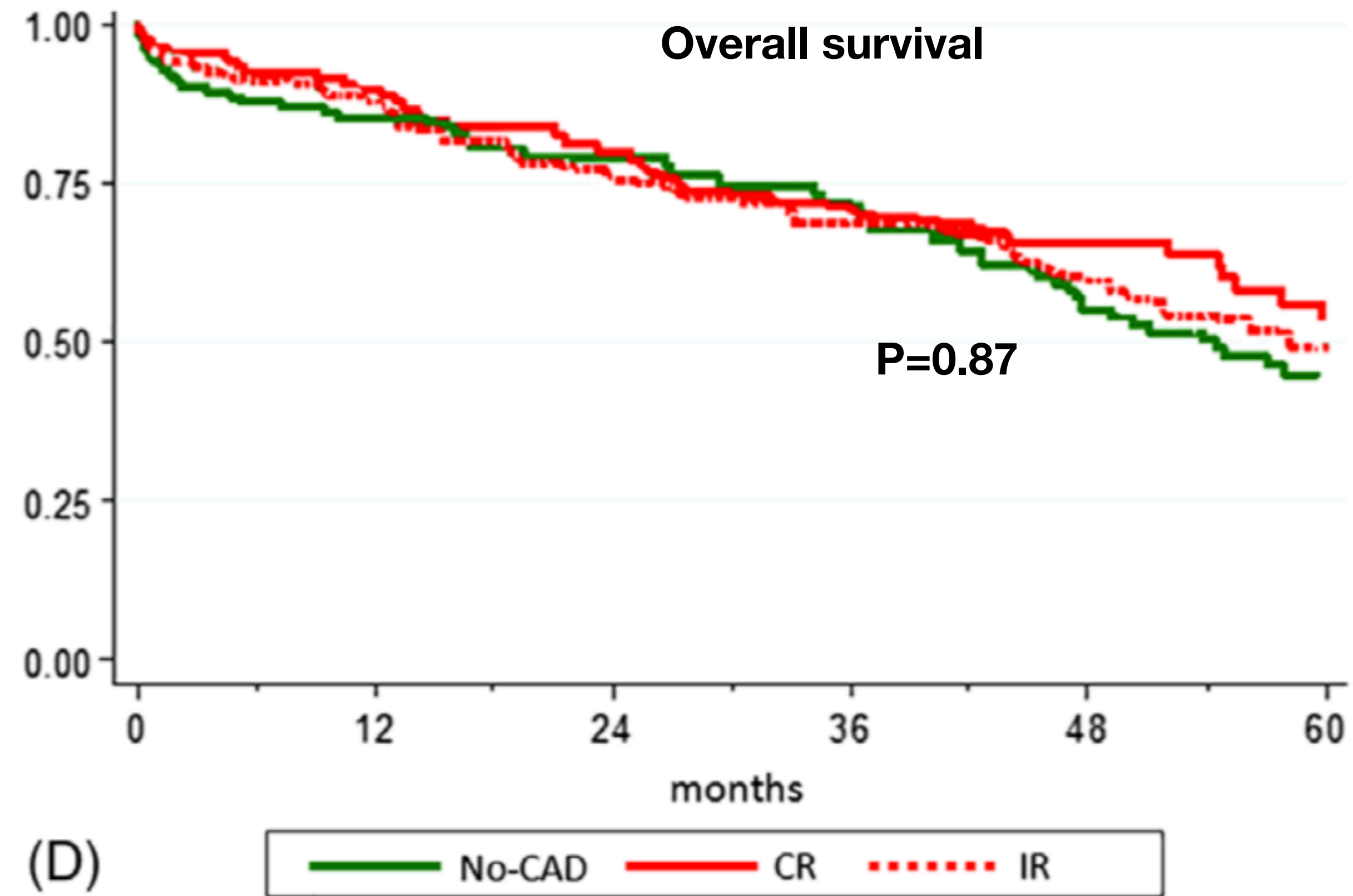
Me H. 90 ans



Coronary artery disease and reasonably incomplete coronary revascularization in high-risk patients undergoing transcatheter aortic valve implantation

Francesco Saia MD, PhD  | Tullio Palmerini MD | Miriam Compagnone MD |

- 540 consecutive patients
- 291 PCI pre TAVI
- Mean Age 82.7
- 138 Pts CR, 153 Pts IR

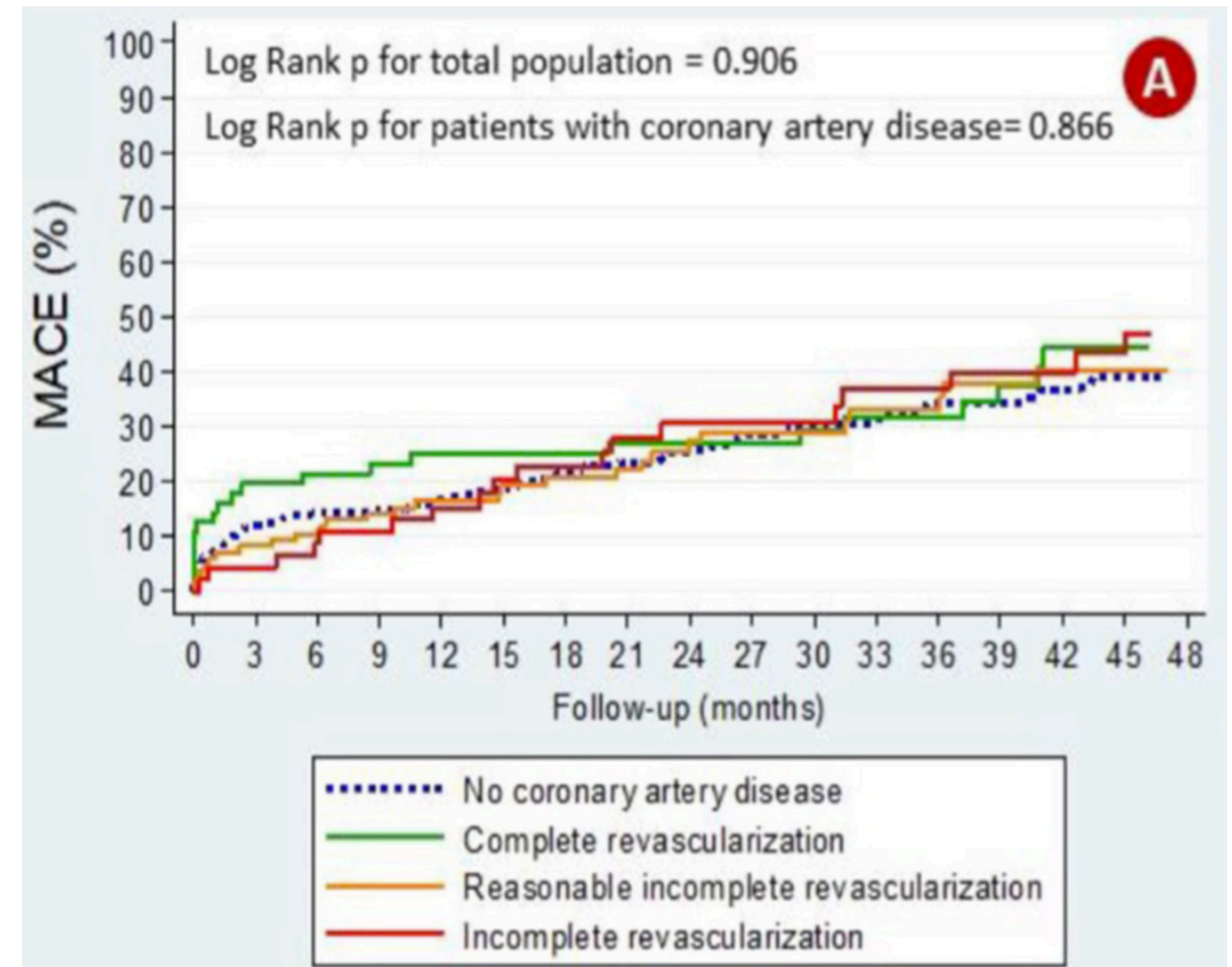


Impact of Coronary Revascularization in Patients Who Underwent Transcatheter Aortic Valve Implantation



Diego López Otero, MD, PhD^a, Alejandro Ávila-Carrillo, MD^a, Rocío González Ferreiro, MD^{a,b,*}, Adrián Cid Menéndez, MD^a, Diego Iglesias Álvarez, MD^a, Leyre Álvarez Rodríguez, MD^a, Pablo Antúnez Muiños, MD^a, Belén Cid Álvarez, MD^a, Xoan Carlos Sanmartín Pena, MD^a, Fernando Gómez Pérez, MD^a, Alfredo Redondo Diéguez, MD^a, Ignacio Cruz-González, MD, PhD^b, Ramiro Trillo Nouche, MD^a, and José Ramón González-Juanatey, MD, PhD^a

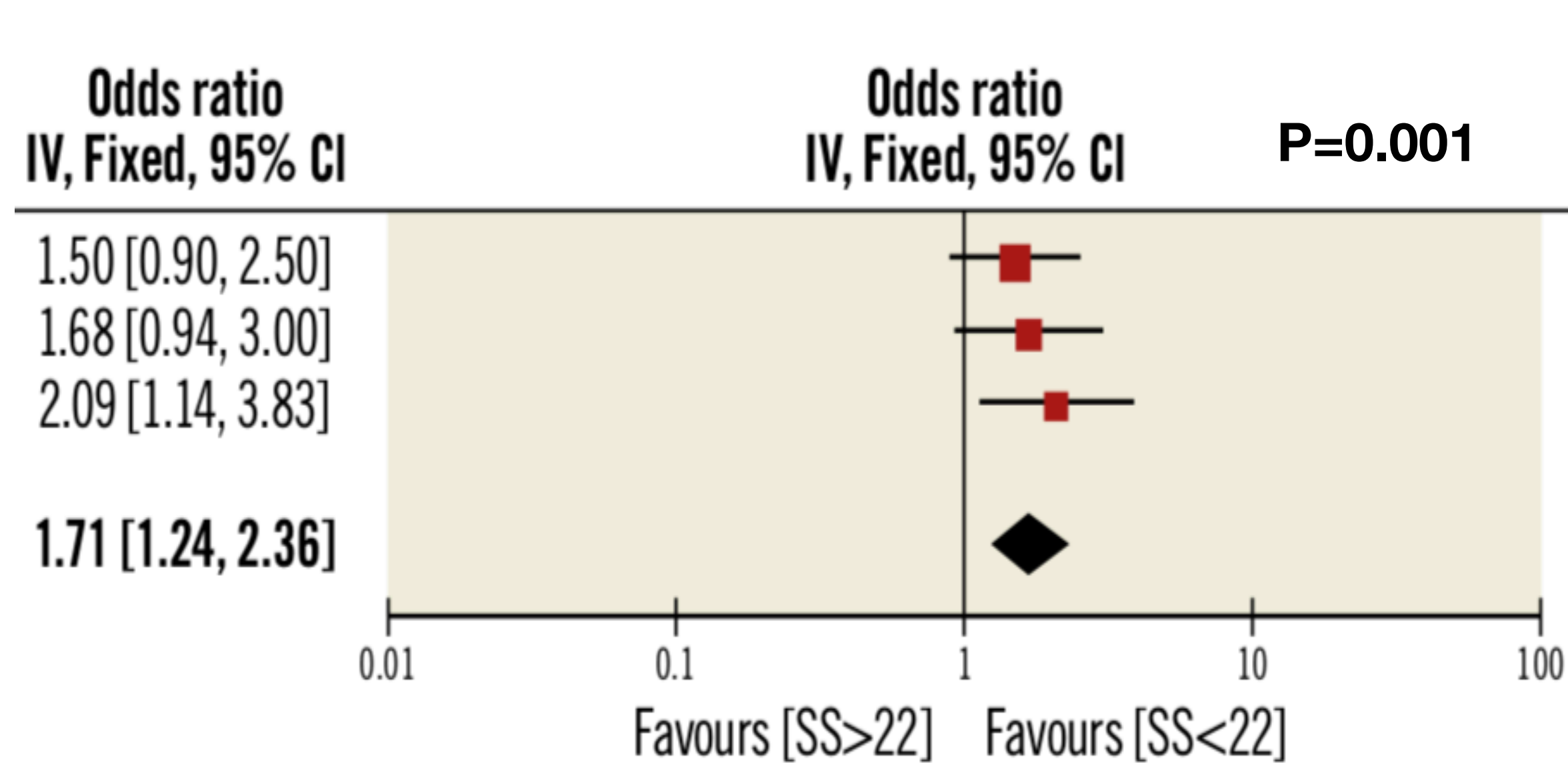
- 349 consecutive patients from 2008 to 2016 with CoreValve or Evolut
- Mean Age : 82.3
- 187 pts had PCI (53.7%)
- CR, $rSS=0$: 31.1%
- RIR, $0 < rSS < 8$: 45.4%
- IR, $rSS > 8$: 24.5%



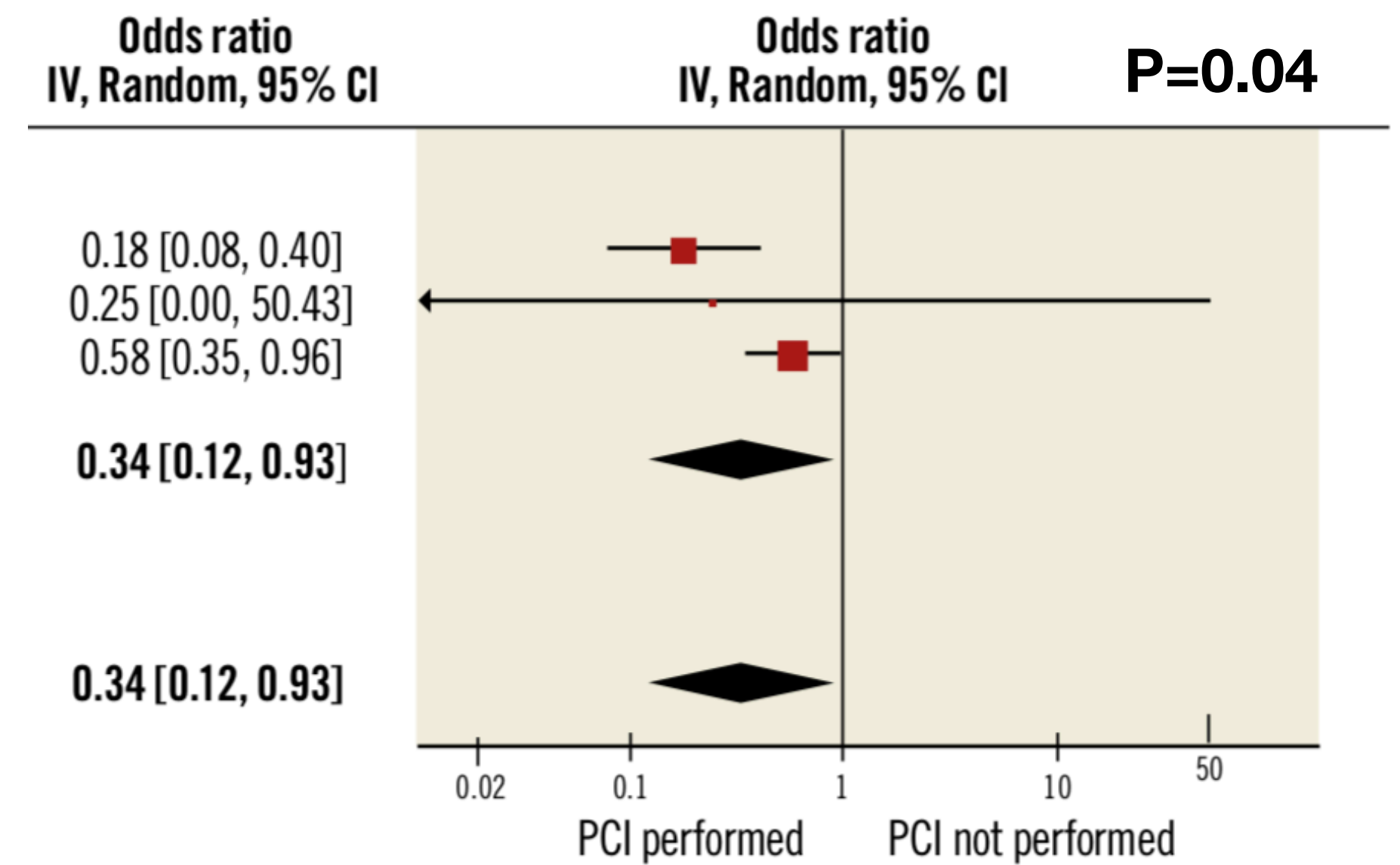
Independent impact of extent of coronary artery disease and percutaneous revascularisation on 30-day and one-year mortality after TAVI: a meta-analysis of adjusted observational results

3994 Pts with CAD and 4192 Pts without CAD in 13 studies

Impact of severity of CAD stratified with SS on one-year mortality at multivariable analysis



Impact of PCI assessed with rSS < 8 on one-year mortality after TAVI

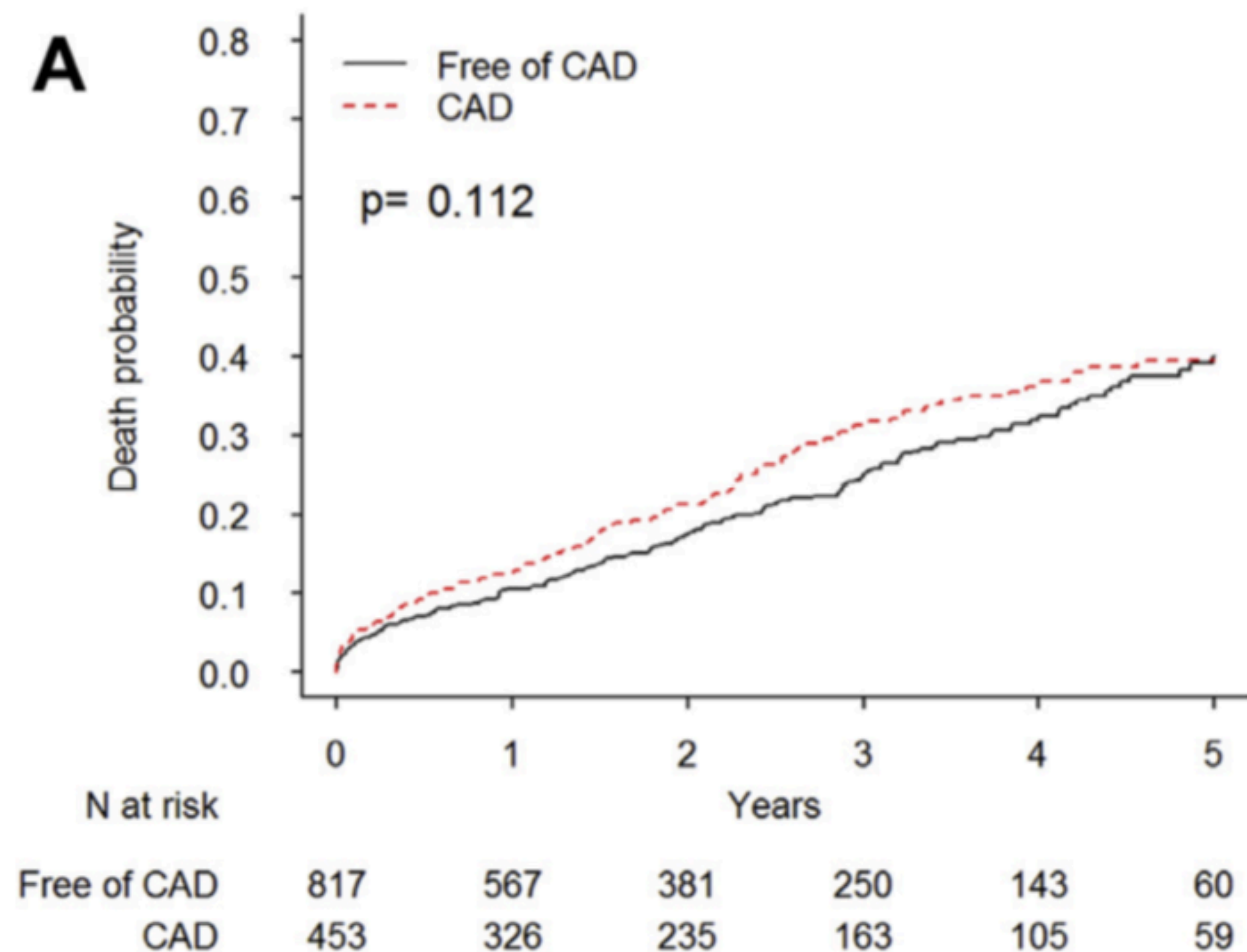


The Prognostic Effects of Coronary Disease Severity and Completeness of Revascularization on Mortality in Patients Undergoing Transcatheter Aortic Valve Replacement



Guy Witberg, MD,^{a,b} Ehud Regev, MD,^{b,c} Shmuel Chen, MD,^d Abbid Assali, MD,^{a,b} Israel M. Barbash, MD,^{b,c} David Planer, MD,^d Hana Vaknin-Assa, MD,^{a,b} Victor Guetta, MD,^{b,c} Vojislav Vukasinovic, MD,^d Katia Orvin, MD,^{a,b} Haim D. Danenberg, MD,^d Amit Segev, MD,^{b,c} Ran Kornowski, MD^{a,b}

- 1270 consecutive patients
- 817 Pts (64%) no CAD
- 331 Pts (26%) with SS <22
- 122 Pts (10%) with SS >22



The Prognostic Effects of Coronary Disease Severity and Completeness of Revascularization on Mortality in Patients Undergoing Transcatheter Aortic Valve Replacement



Guy Witberg, MD,^{a,b} Ehud Regev, MD,^{b,c} Shmuel Chen, MD,^d Abbid Assali, MD,^{a,b} Israel M. Barbash, MD,^{b,c} David Planer, MD,^d Hana Vaknin-Assa, MD,^{a,b} Victor Guetta, MD,^{b,c} Vojislav Vukasinovic, MD,^d Katia Orvin, MD,^{a,b} Haim D. Danenberg, MD,^d Amit Segev, MD,^{b,c} Ran Kornowski, MD^{a,b}

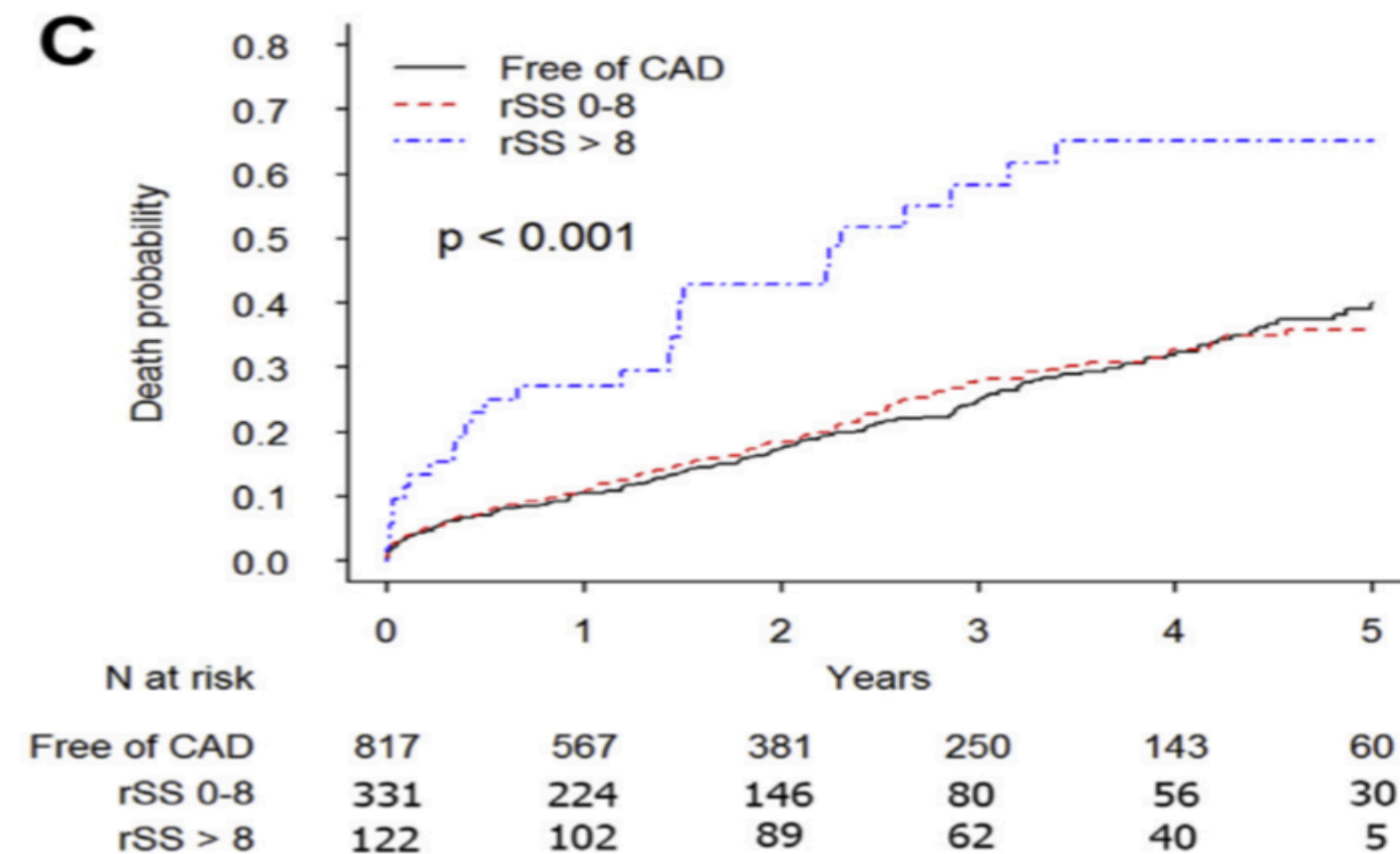
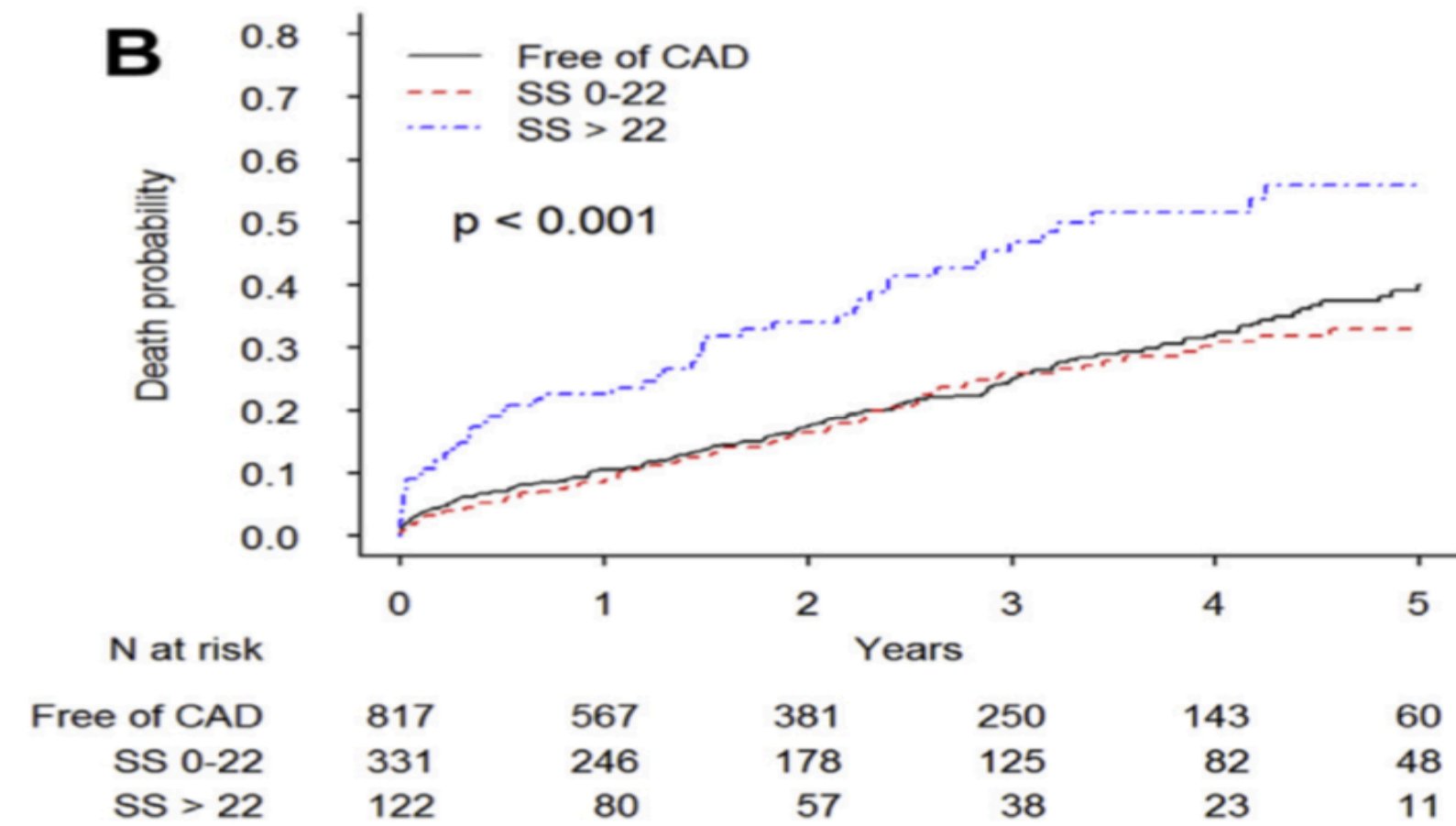
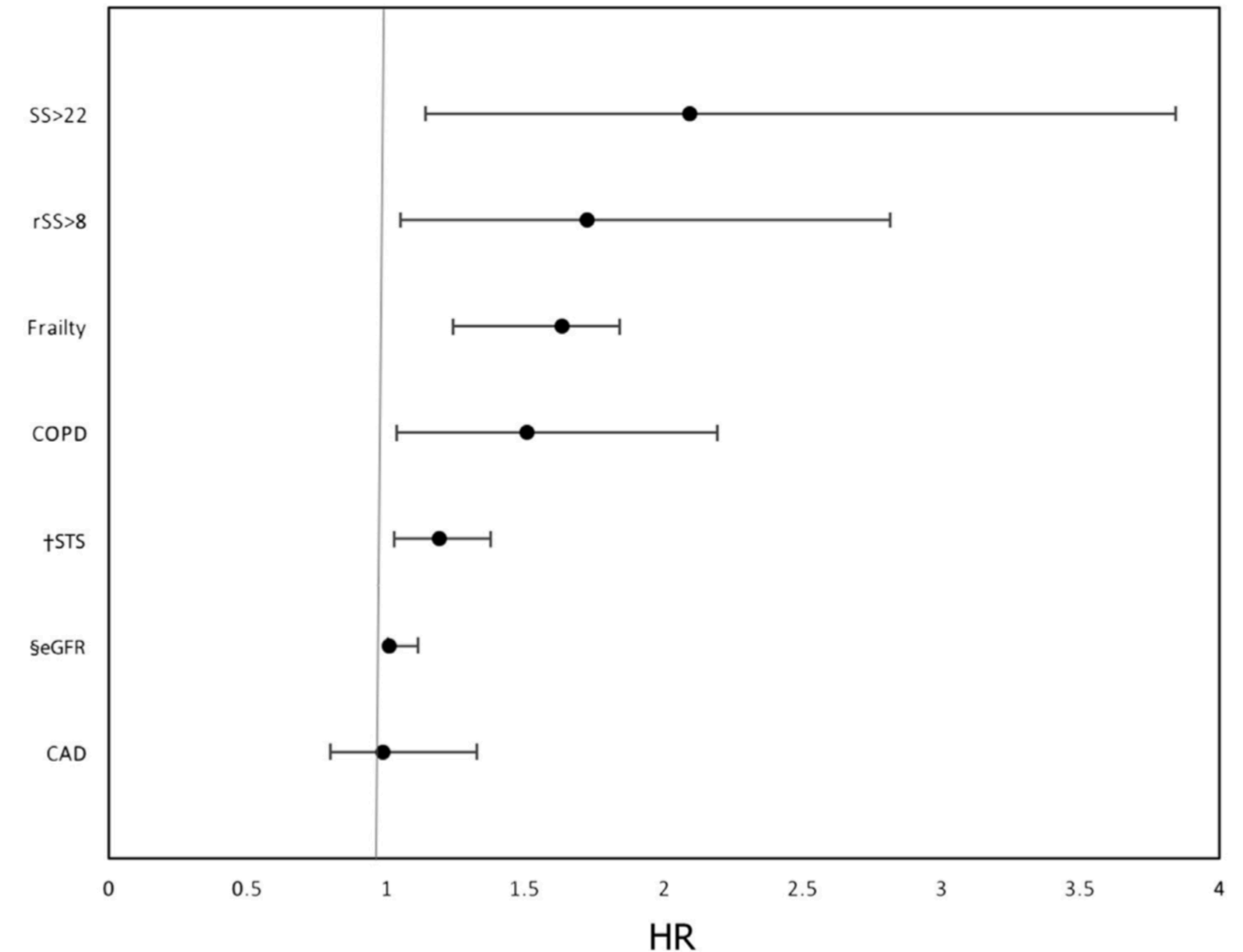
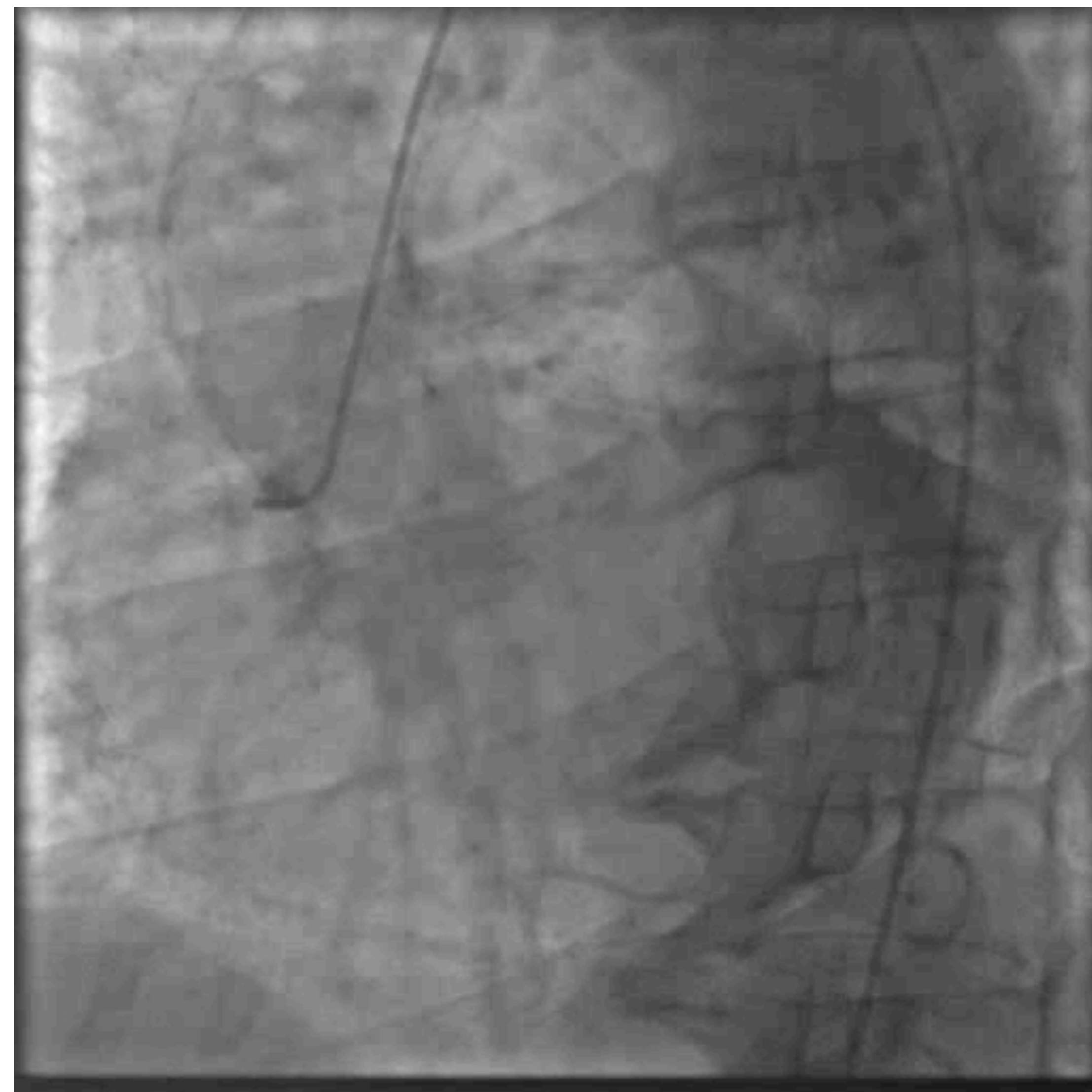
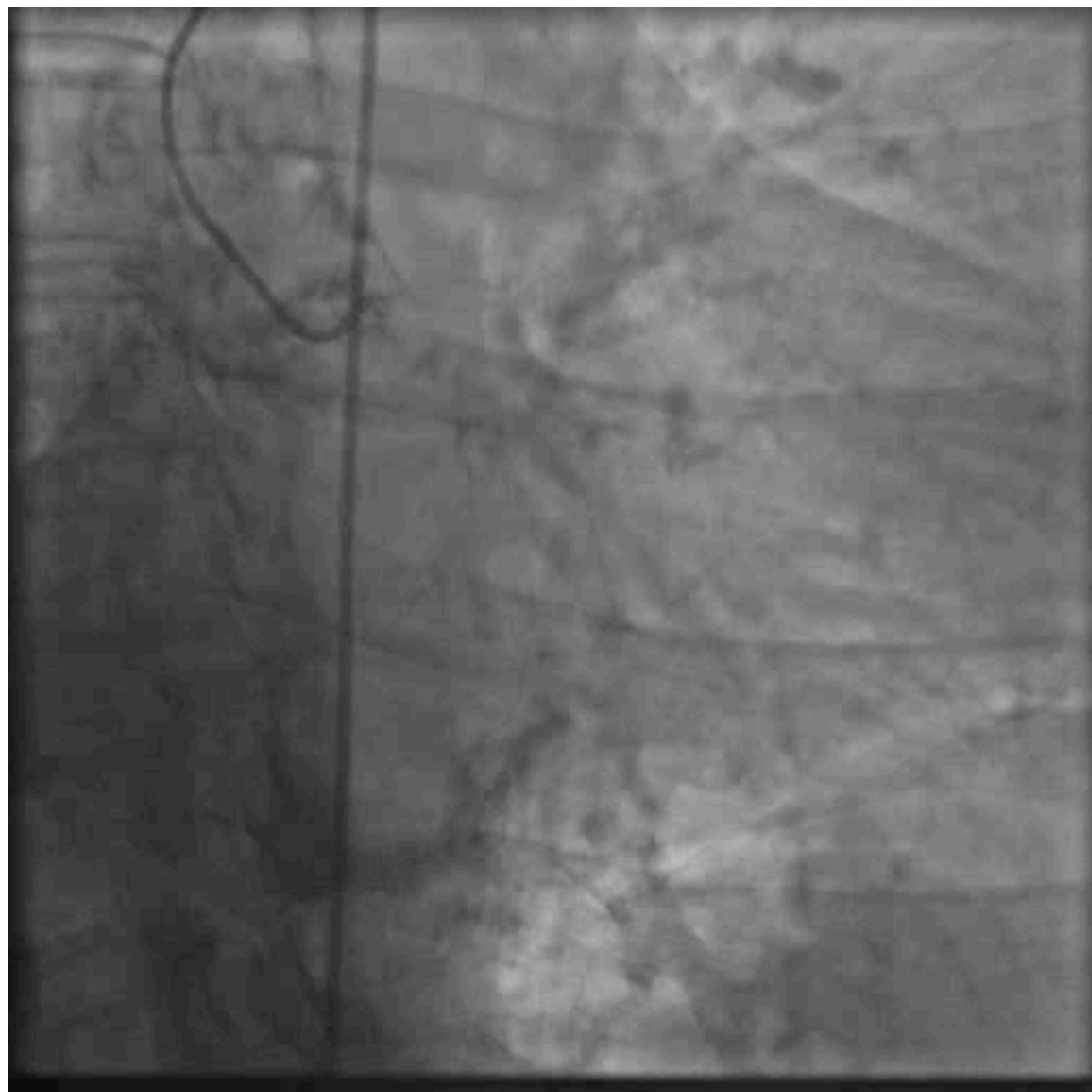


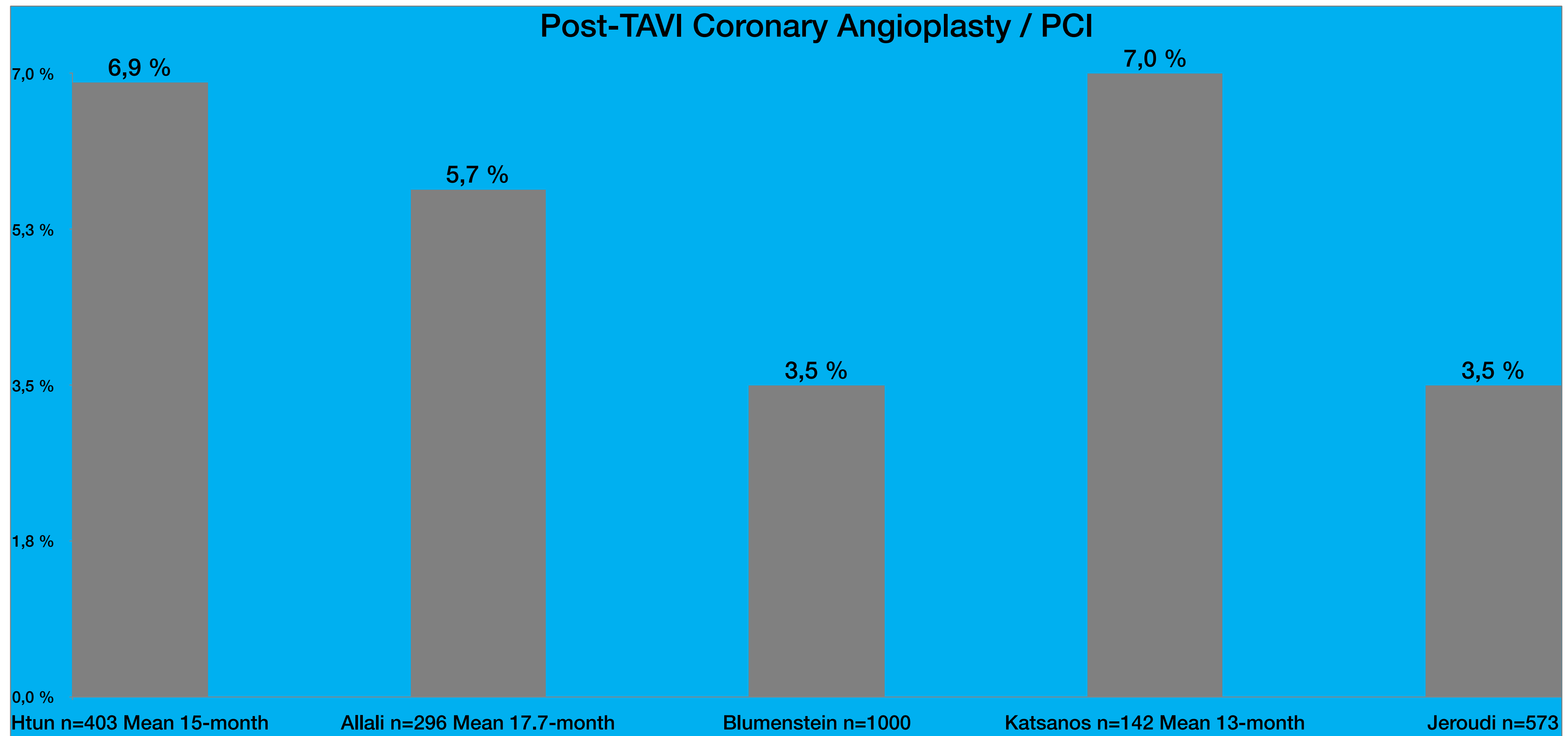
FIGURE 3 Independent Predictors of Post-TAVR Mortality*



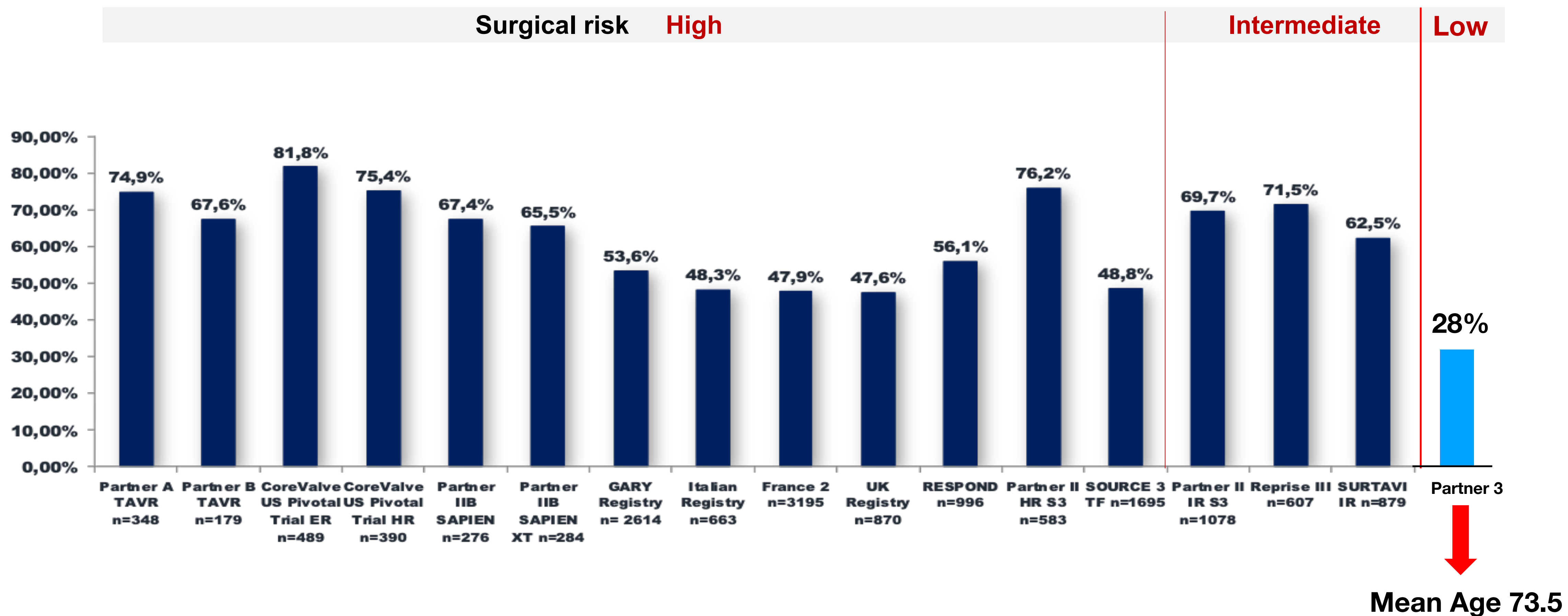
Mr F. 85 ans



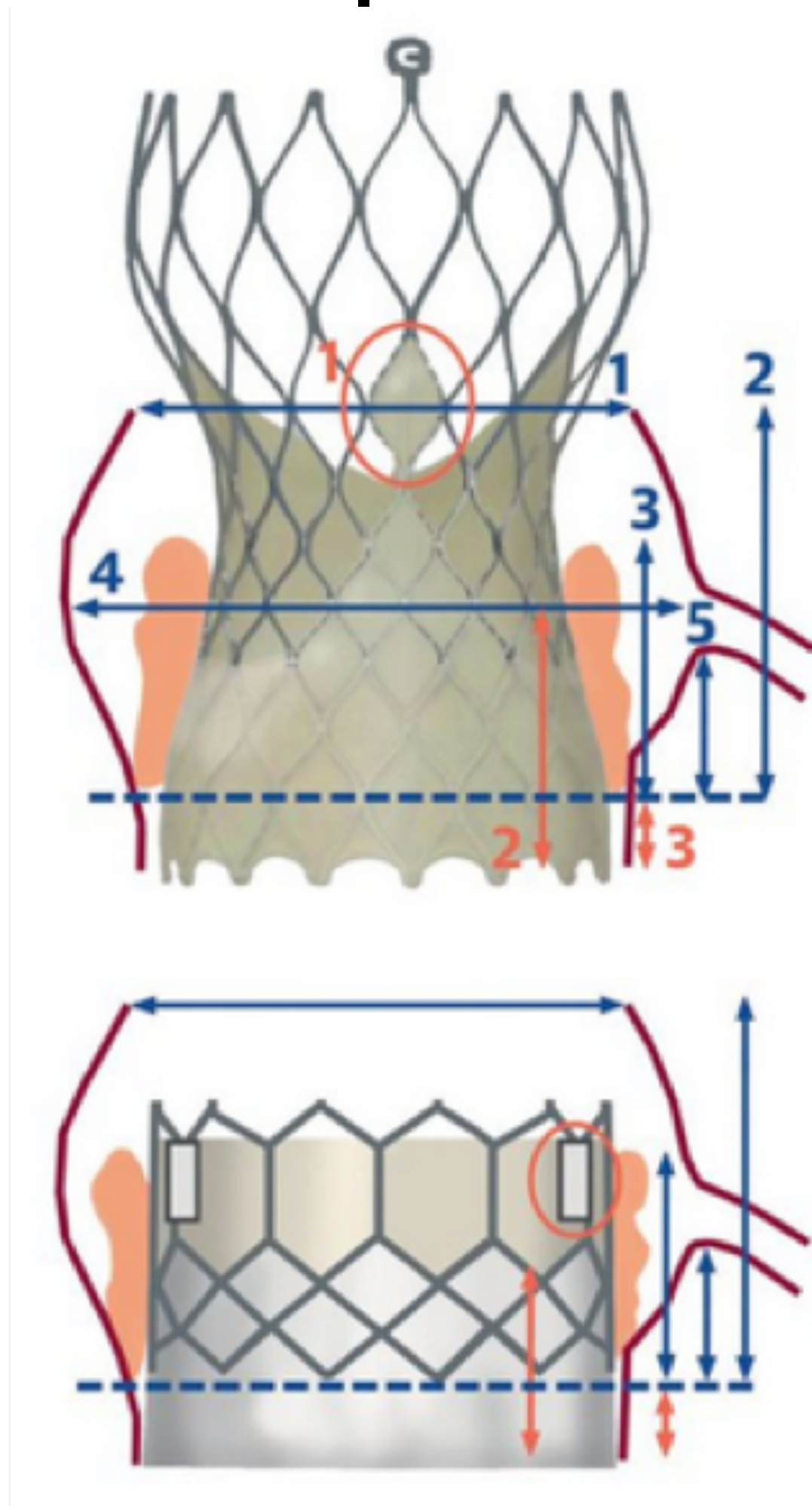
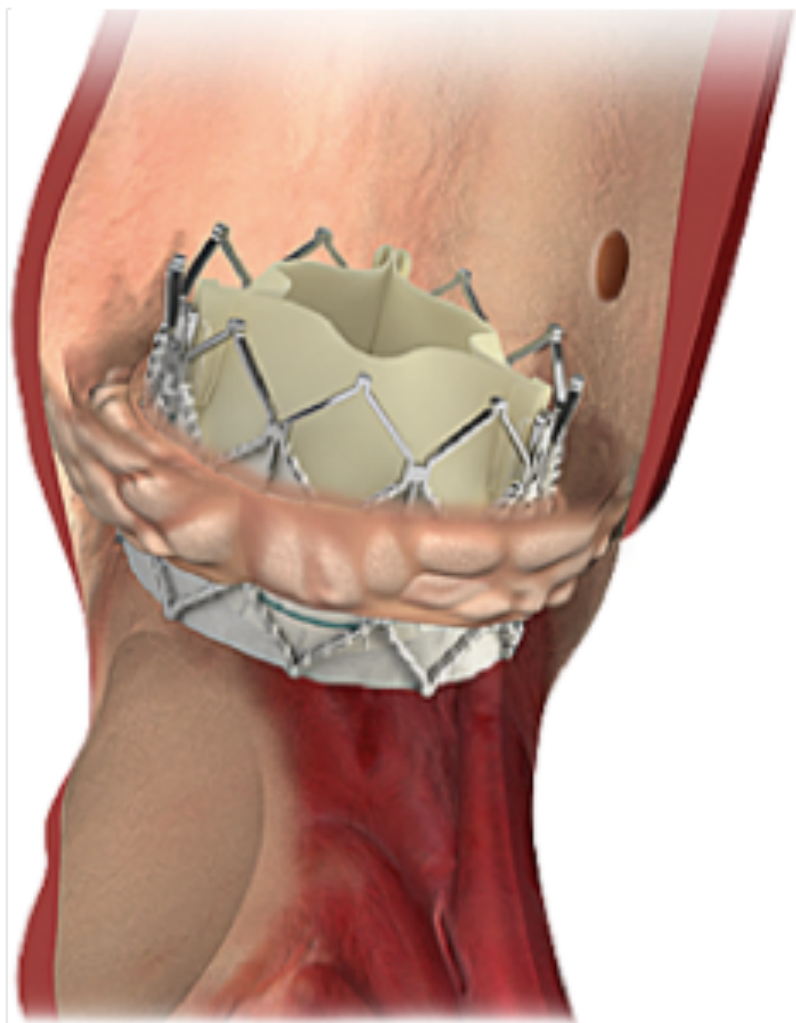
Fréquence de l'angioplastie après TAVI



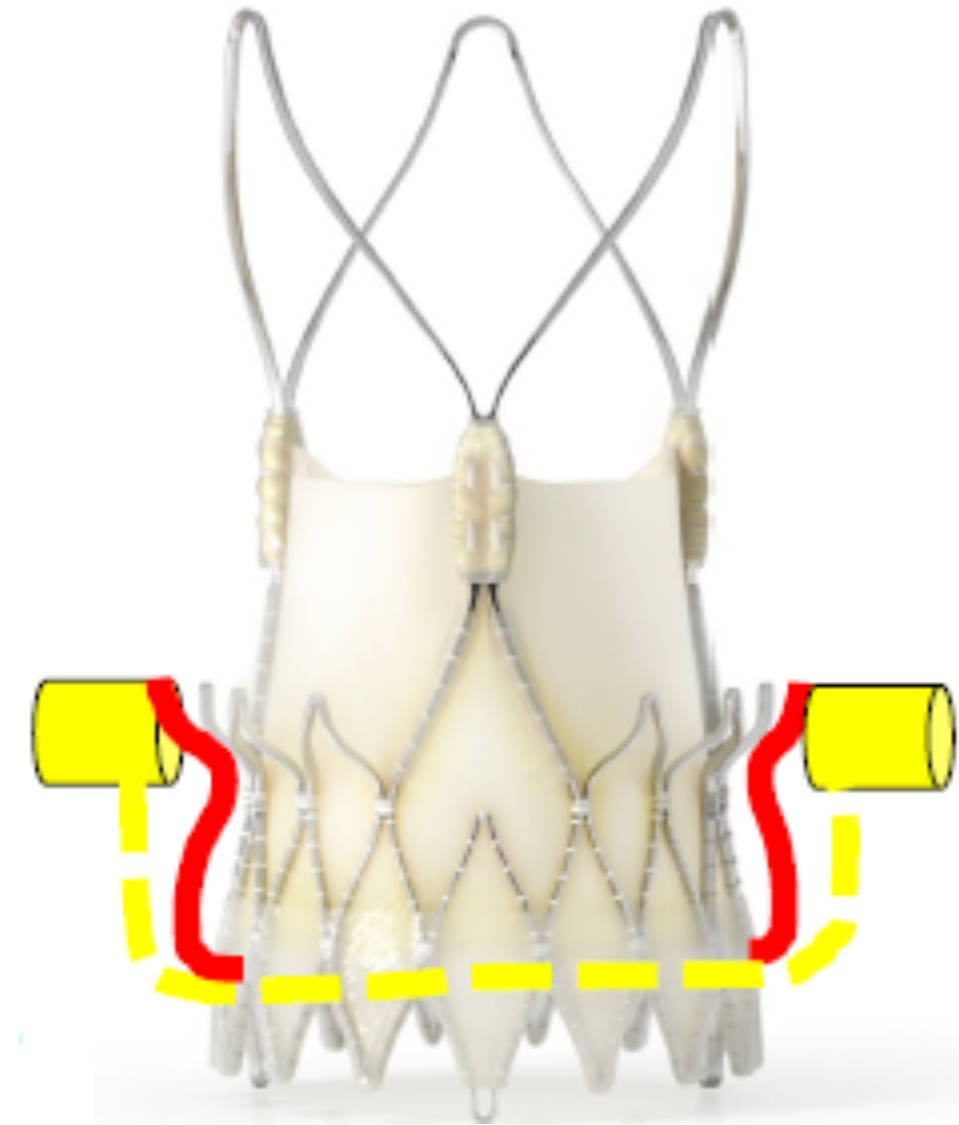
Maladie coronaire chez les patients « faible risque »



Coronary reaccess after TAVI : Supraannular versus annular position



Yudi MB, et al. JACC 2018;71:1360-78



Schäfer U, Presentation TCT 2017

Anatomical Factors :

- Sinotubular junction dimension
- Sinus height and width
- Coronary height
- Leaflet length

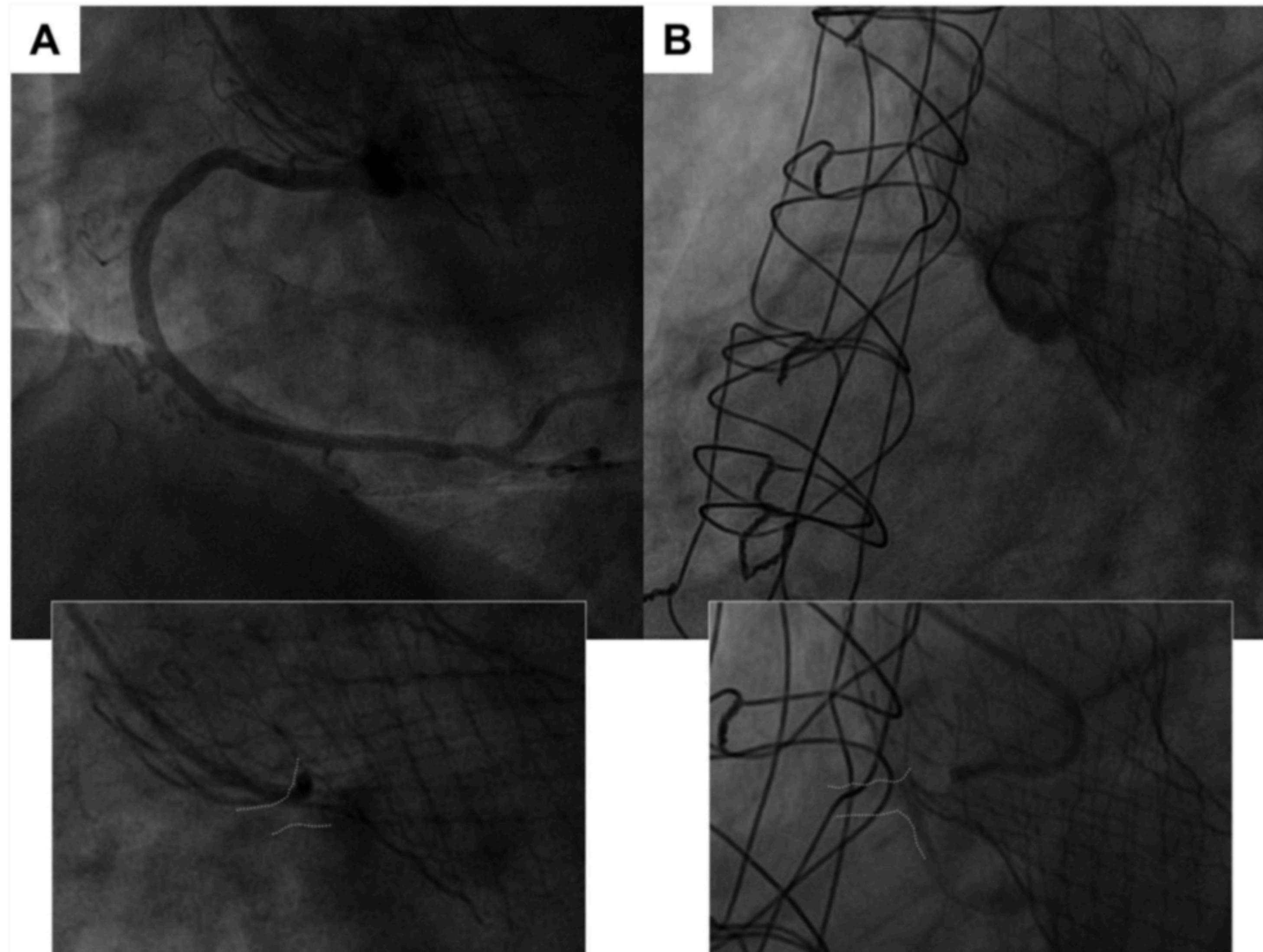
Device/Procedural factors :

- Supra versus intra annular valve
- Cell width
- Valve implant depth

Incidence, Technical Safety, and Feasibility of Coronary Angiography and Intervention Following Self-expanding Transcatheter Aortic Valve Replacement

Akih
Mari
Corra
Anto

a Fiorina
rbanti ^f,



y)

CAG

RCA angiography

Number of used catheters

RCA angiography success

Final successful catheter (n)

Judkins Right

Others

Final successful catheter sit

Engaged

Floating

Unavailable

LCA angiography

Number of used catheters

LCA angiography success

Final successful catheter (n)

Judkins Left

Others

Unavailable

Final successful catheter sit

Engaged

Floating

Unavailable

Complication related to CAG

THV dislodgment

Coronary ostial dissection

Any other complication

N = 30

20

3

4

3

1.9 ± 1.8

93.3% (28/30)

15

11

3

1

4

9

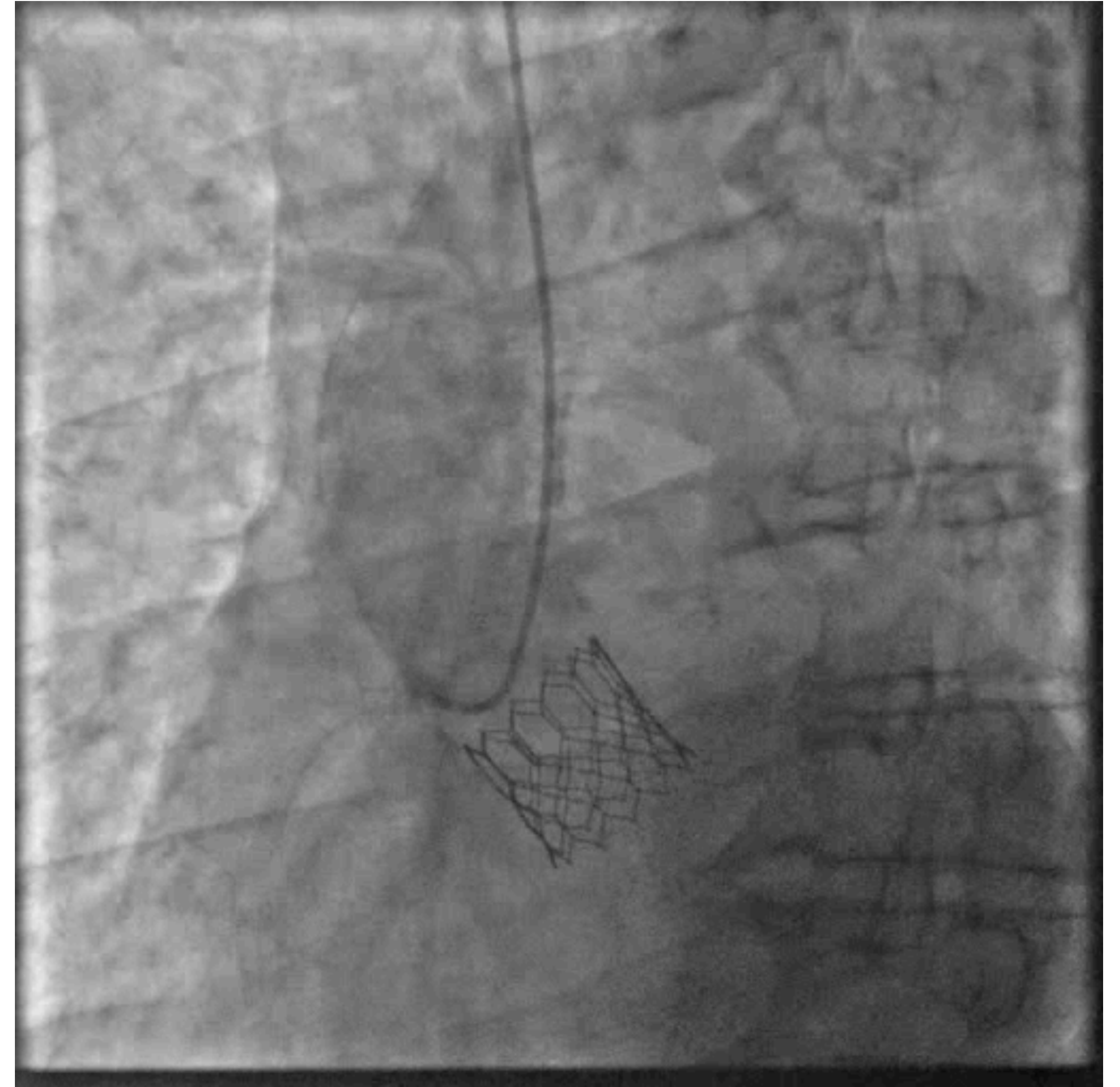
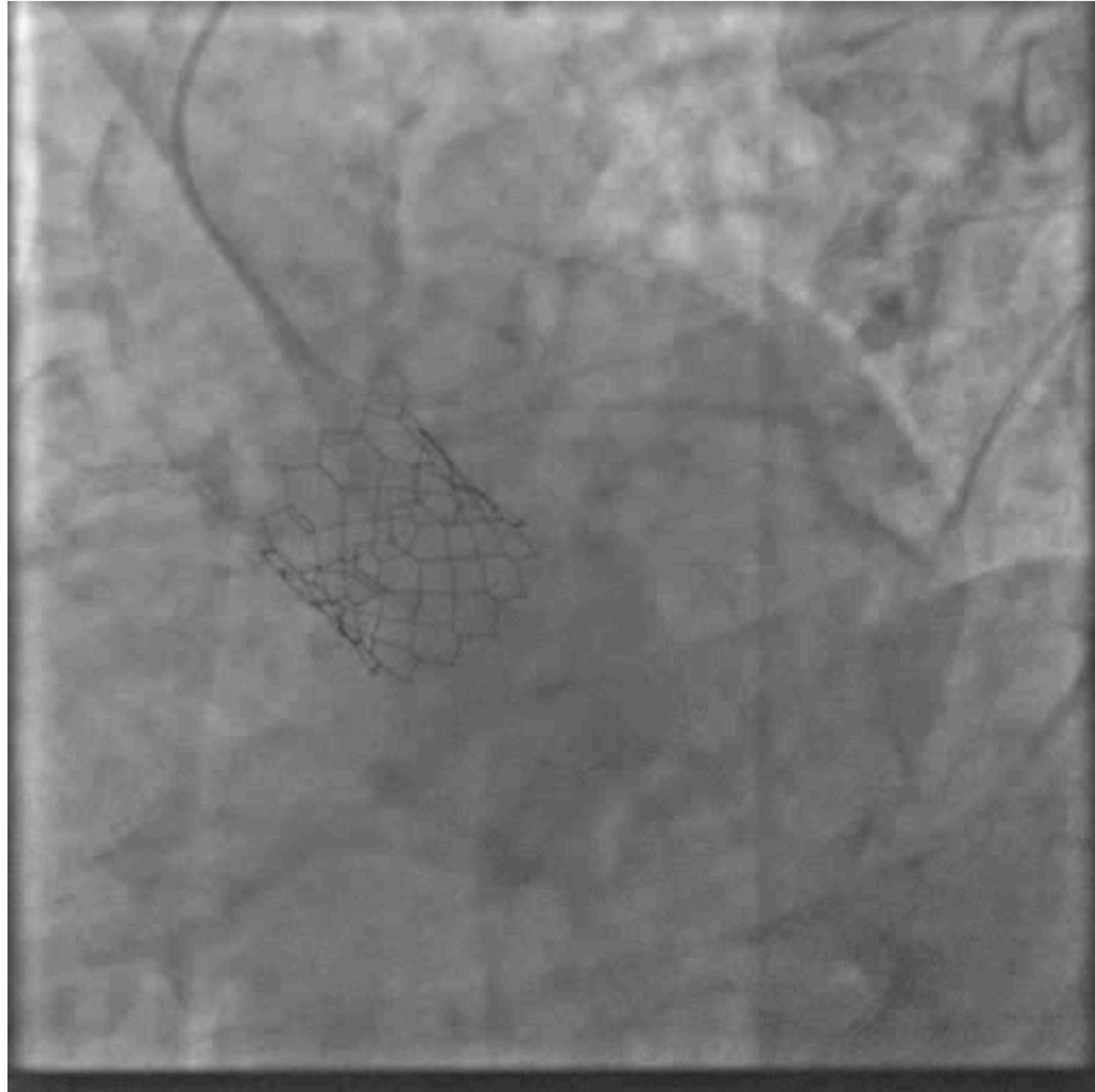
93.3% (28/30)

0

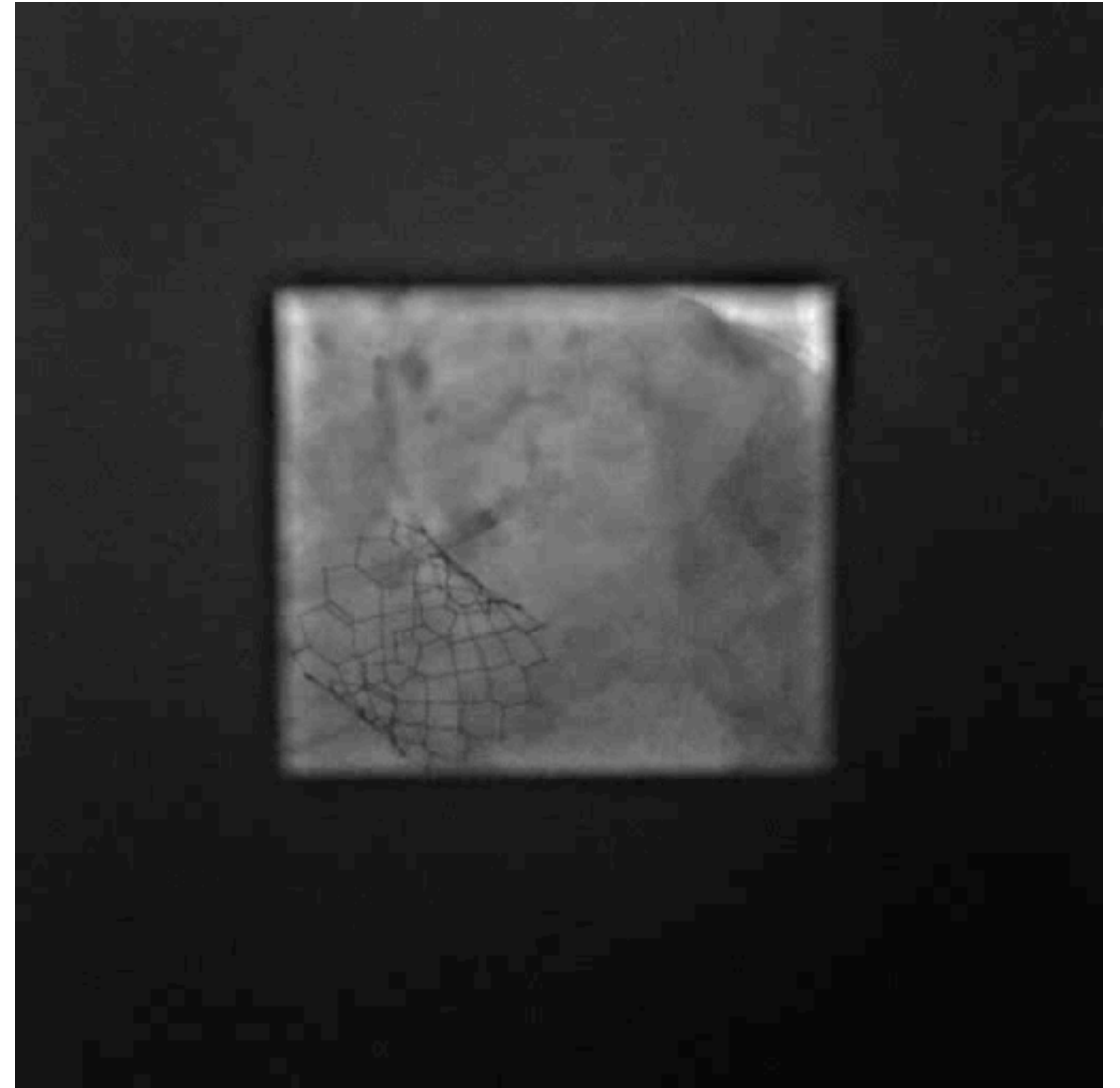
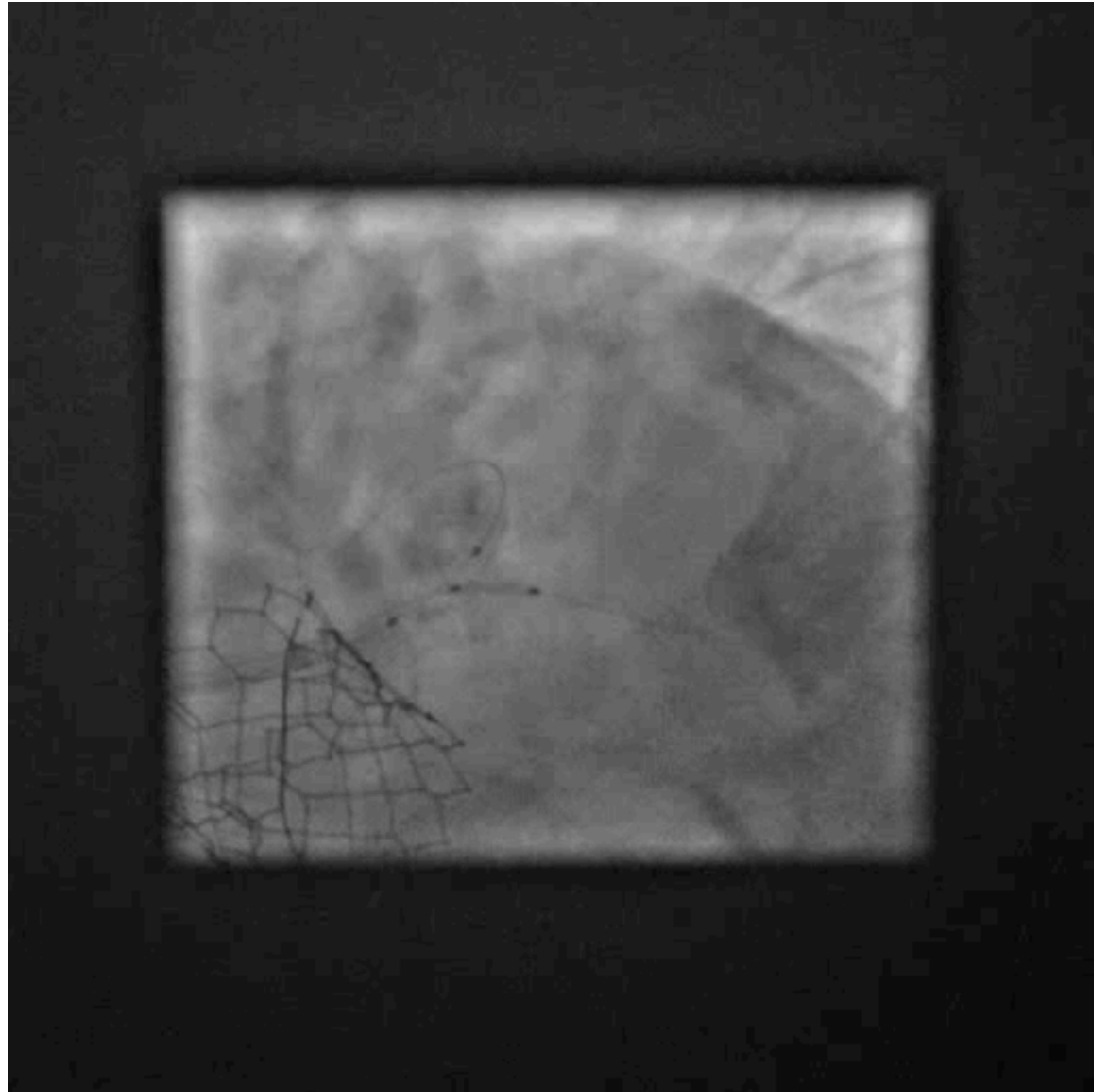
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Mr F. 86 ans 1 an après Sapien 26mm



T stenting



Conclusion

- ✓ Ne pas en faire trop en Pre TAVI!
- ✓ Syntax score peut influencer l'attitude thérapeutique :
 - > 22 : revascularisation
 - rSS < 8 : objectif après revascularisation
- ✓ Penser au Post TAVI et à l'accès aux coronaires : choix d'autant plus important de la prothèse que l'âge des patients diminue...