





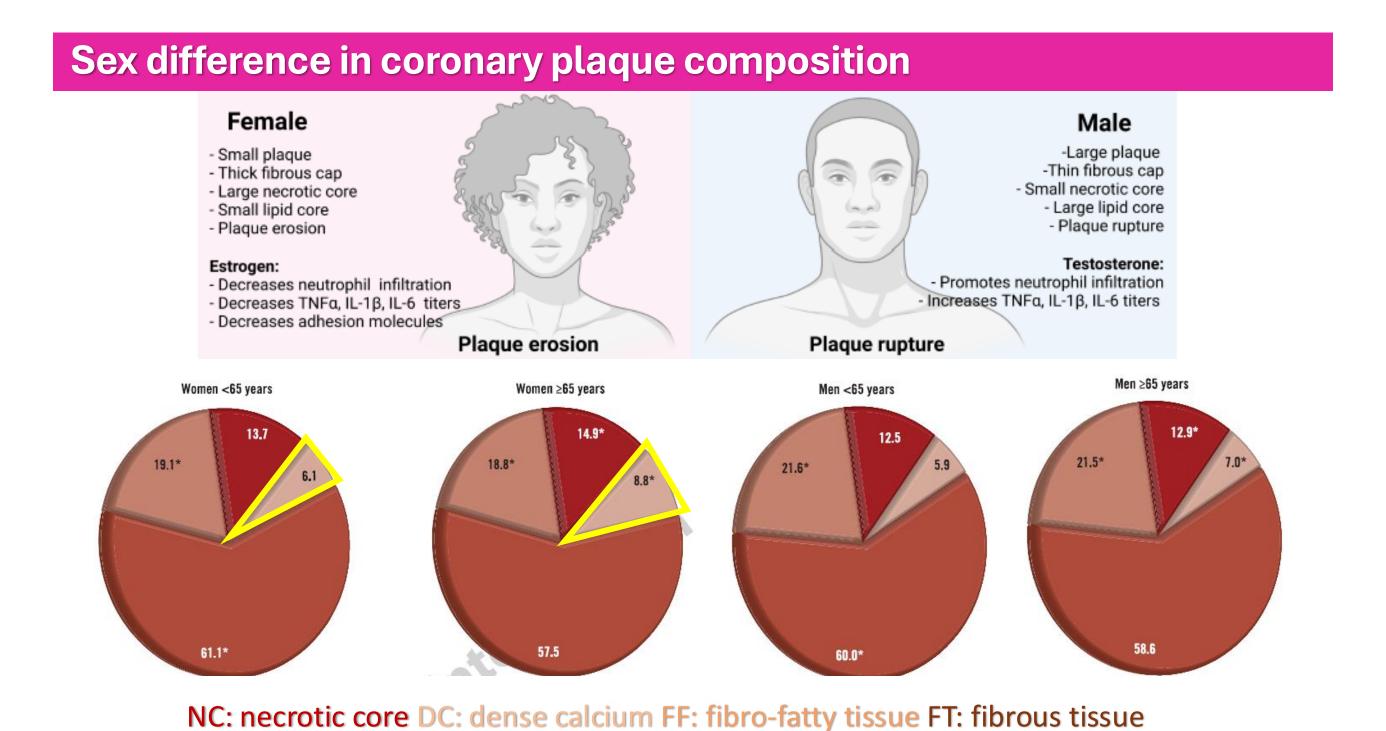
The Appropriateness of Medical Devices Is Strongly Influenced by Sex and Gender

TIZIANA ATTISANO MD, FESC

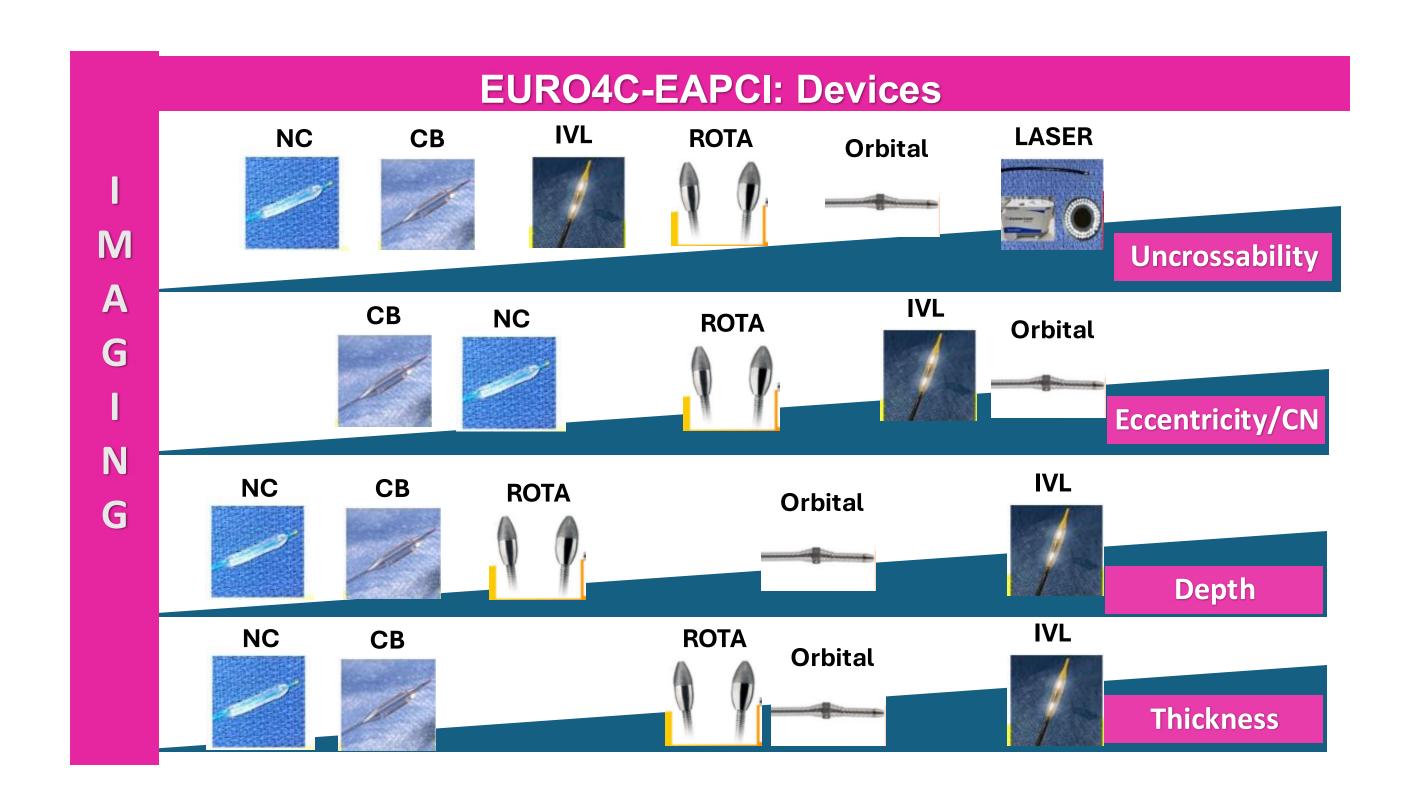
GISE NATIONAL BOARD
GISE WOMEN COORDINATOR
HEAD OF UOSD EMODINAMICA
CARDIOVASCULAR DPT
AOU RUGGI D'ARAGONA -SALERNO

Nothing desclure to declare









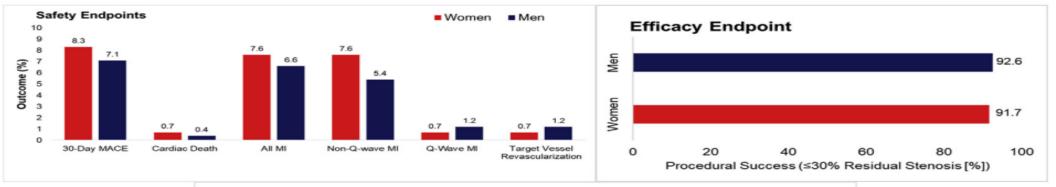


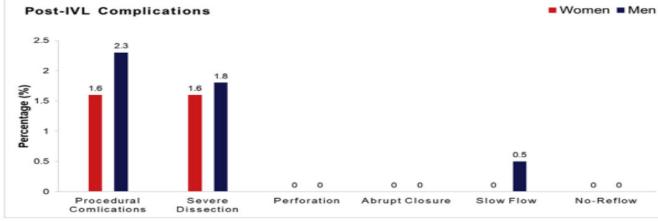
SEX and Calcium treatment: Lithotripsy (IVL)



Baseline Characteristics

Older Age More Hyperlipidemia More Renal Insufficiency Shorter Lesion Length Smaller RVD









SEX and Calcium treatment: Rotablator (RA)

Effect of Sex on Outcomes of Coronary Rotational Atherectomy Percutaneous Coronary Intervention (From the European Multicenter Euro4C Registry) Flavio Ribichini, MD, PhD Emanuele Barbato, MD, Ph^p,

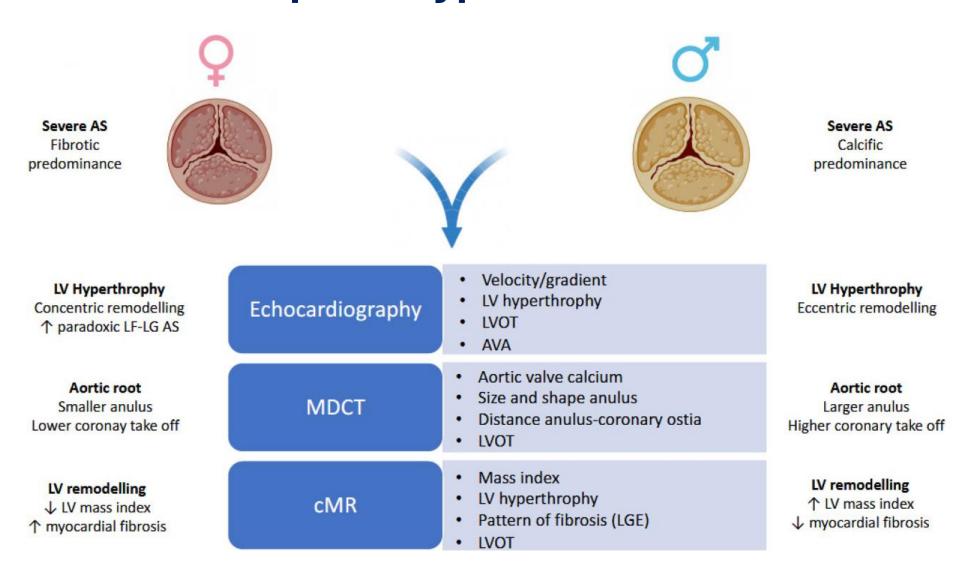
At 1 year follow-up, after complete adjustment on potential confounding factors, significant differences in disfavor of female patients were observed on cardio-vascular death (HR = 1, 96 [1.08 to 3.58] p = 0.028), stroke or TIA (6.27 [1.12 to 35.03] p = 0.036). Regarding MI, the difference was not significant, but a clear tendency could be observed (HR: 1.86 [0.99 to 3.49], p = 0.053). As a result, MACE were 1.8 times more likely to occur in female patient at 1 year. It is interesting to emphasize that this significant gender difference in MACE is driven by hard end points (death, stroke/TIA, MI) and not by TLR, which clearly does not differ between gender (1.02 [0.40 to 2.59]





Masiero ,Attisano et al. Mini-invasive Surg 2022;6:4

Different AV phenotypes in men and women









FEMALE SEX AND TAVI- MAIN CONCEPTS





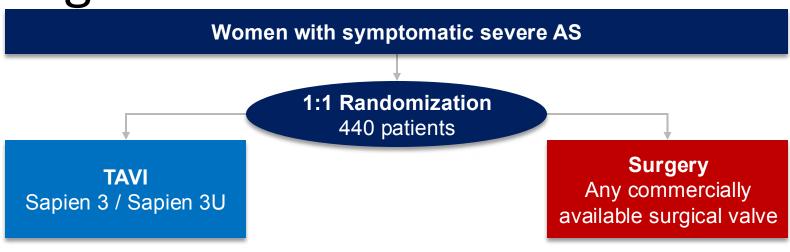




RHEIA Trial Design

RHEIA

Investigator initiated,
multicenter, international
RCT to evaluate safety and
efficacy of TAVI vs. Surgery
in women with symptomatic
severe AS



- Exclusion criteria:
- Bicuspid aortic valve
- Non-calcified aortic valveComplex coronary artery
- disease
 Other anatomical features increasing the risk of complications with TAVI or surgery



STUDY VISITS

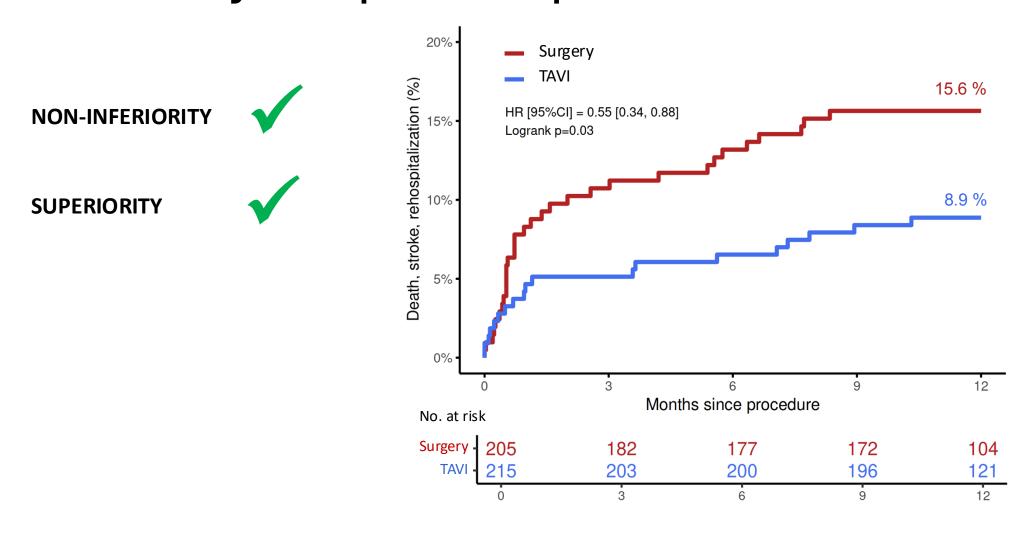
Screening, procedure, post-procedure, discharge, 30 days, and 1 year

Eltchaninoff H. & Tchétché, D. Transcatheter versus surgical aortic valve replacement in women. ESC 2024 Satellite Symposium, sponsored by Edwards Lifesciences, 31.08.2024





Primary Endpoint Kaplan–Meier Estimaterheia



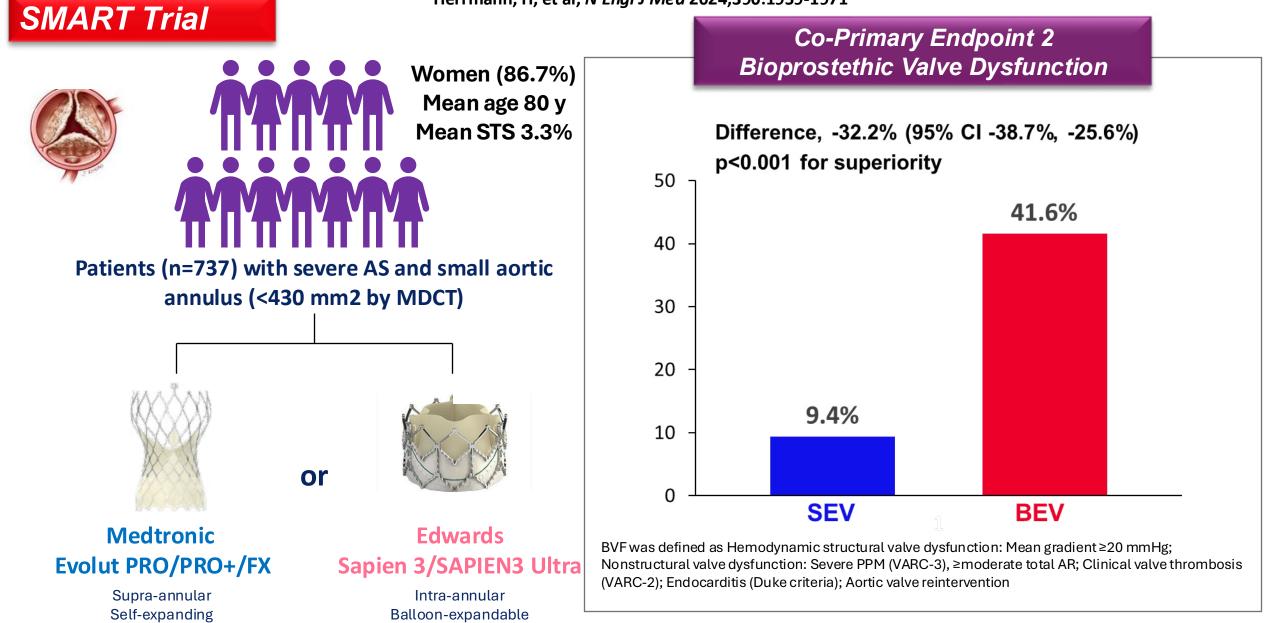
Eltchaninoff H. & Tchétché, D. Transcatheter versus surgical aortic valve replacement in women. ESC 2024 Satellite Symposium, sponsored by Edwards Lifesciences 31.08.2024





TAVI IN SMALL ANNULUS

Herrmann, H, et al, N Engl J Med 2024;390:1959-1971







7. Take Home Message

This review has highlighted that sex and gender gaps are present in all processes, from ideation to commercialization, and seeks to encourage us to have a greater awareness of the impact of sex and gender on MDs. To do so, the creation of multidisciplinary team which adopts a sex- and gender-sensitive approach to ensure more rigorous sex-gender data in the field of MDs is an essential requirement for the personalization of prevention and care following the principle of the health equity.