Trifecta GT

THE BEST PROSTHESIS TO PREVENT PATIENT-PROSTHESIS MISMATCH

"The choice of the appropriate prosthesis for a young patient is likely the easiest way to avoid mismatch"

Severe PPM Is Associated with Increased Mortality²



27,186 PATIENTS





increase in cardiac-related mortality with severe PPM

2020: Perceval or Trifecta to Prevent PPM



MDPI

Article Perceval or Trifecta to Prevent Patient– Prosthesis Mismatch

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4 years including patients with Trifecta or Sutureless in a a

tertiary center

Patient-prosthesis mismatch analyzed

Impact of the implanted prosthesis on the presence of

mismatch using a multinomial logistic regression analysis

516 patients analyzed



First quartile impact factor

Perceval or Trifecta to Prevent PPM







Figure 2. Indexed effective orifice area according to the type of prosthesis and size. Both types of prosthesis are presented together for visual inspection. However, size S of the Perceval is for an aortic annulus of 19–21 mm. Size M: 21–23 mm. Size L: 23–25 mm. Size XL: 25–27 mm [6]. Therefore, the size of a Perceval does not match the size of any Trifecta.

Postoperative gradients consitently lower than those with Perceval Postoperative area consitently higher than using Perceval

Trifecta or Perceval to Reduce Patient-Prosthesis Mismatch



Perceval or Trifecta to Prevent PPM

"Compare with Perceval prosthesis, Trifecta is able to reduce by 50% the risk of moderate PPM³."

Perceval or Trifecta to Prevent PPM

PORQUE EL ÁREA PROTÉSICA IMPORTA... Y NO TODAS LAS PRÓTESIS SON IGUALES

The Trifecta[™] Valve

"The nearly cylindric opening of the prosthesis on systole provides gradients and EOAs that surpass any other available stented aortic prosthesis and approach those of stentless prostheses⁴."

The Trifecta[™] Valve: AREA

AVERAGE EFFECTIVE ORIFICE AREA (EOA) AT ONE YEAR^{5-10,*}

*For References 5-10, data are from IFU, not from a head-to-head comparison. Information provided for educational purposes only. https://www.structuralheartsolutions.com/structural-heart-products-solutions/aortic-valve-trifecta-gt/clinic-data/

The Trifecta[™] Valve: GRADIENTS

AVERAGE MEAN PRESSURE GRADIENT BY VALVE SIZE AT ONE YEAR^{5-10,*}

*For References 5-10, data are from IFU, not from a head-to-head comparison. Information provided for educational purposes only. https://www.structuralheartsolutions.com/structural-heart-products-solutions/aortic-valve-trifecta-gt/clinic-data/

EO AREA WITHOUT COMPETENCE

• Trifecta 21 has an area similar to Edwards Resilia 23

• Trifecta 21 has an area similar to Mitroflow 25

• Trifecta 21 has an area similar to Medtronic Avalus 25

• Trifecta 21 has an area similar to Livanova Perceval XL

The Trifecta[™] Valve

Shows a Consistently Low Rate of PPM Compared to Other Valves

RATE OF SEVERE PPM IN 351 PATIENTS

"The Trifecta valve appears to be the surgical prosthesis that currently is associated with the **lowest rate of PPM**, maybe even lower than that of Transcatheter prostheses⁵."

Trifecta™

Collagen fiber alignment MAXIMIZES FATIGUE RESISTANCE

EACH VALVE visually and

functionally inspected

Titanium band* MAINTAINS STENT GEOMETRY during implant Controlled leaflet thickness ENHANCES TENSILE STRENGTH

LINX[™] AC TECHNOLOGY Anticalcification (AC) treatment

Precision suturing REDUCES LEAFLET STRESS

Trifecta[™] Valves

LOW RATE OF LEAFLET TEAR

| | PATIENTS | LEAFLET TEAR AT 5 YEARS | ABSENCE OF SEVERE PPM POST-IMPLANT |
|---------------------------------|----------|---------------------------|---------------------------------------|
| TRIFECTA LTFU ^{4,6} | 710 | 1 (0.14%) | 98% |
| UPMC ⁷ | 1,953 | 3 (0.15%) | 100% |
| RENNES ⁸ | 824 | 2 (0.24%) | 98.7% |
| LEIPZIG ⁹ | 918 | 2 (0.22%) | 100% |
| | Four S | tudies > 4,400 Patients | |

NCLT – Non-Calcific Leaflet Tear | PPM – Prosthesis-Patient Mismatch.

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