ESC Congress 2020 The Digital Experience

ON DEMAND

 \odot Long-term analysis of pulmonary hypertension and tricuspid regurgitation after transcatheter aortic valve replacement

- 🔮 Speaker: Tiago Bignoto (Sao Paulo, Brazil)
- P Session title: Valvular Heart Disease ePosters
- 🗏 Topic: Valvular Heart Disease Epidemiology, Prognosis, Outcome
- Session type: ePosters
- 🔓 Availab<mark>le</mark> from: Friday 28 August 2020

Authors

T Bignoto¹, D Le Bihan², AC Souza¹, N Oliveira¹, BMO Nascimento¹, PCC Sousa¹, MFM Santos¹, M Simonato¹, RBM Barretto², AlO Ramos¹, DAA Siqueira³, AGMR Sousa³, A Abizaid³, ¹Institute Dante Pazzanese of Cardiology, Valvopathy - Sao Paulo - Brazil, ²Institute Dante Pazzanese of Cardiology, Echocardiography - Sao Paulo - Brazil, ³Institute Dante Pazzanese of Cardiology, Intervention - Sao Paulo - Brazil,

Abstract

Citation: N/A

Introduction: Transcatheter aortic valve replacement (TAVR) is increasingly utilized in treatment of aortic stenosis (AS). AS is commonly associated to pulmonary hypertension (PH) and tricuspid regurgitation (TR). We aimed to evaluate the long-term post-TAVR course of PH and TR.

Methods: Patients undergoing TAVR were screened for 24-month echocardiographic data on PH and TR. All echocardiograms were performed by a sing le team. Patients were divided in groups according to TR and PH (pulmonary systolic pressure ≥ or < 45 mmHg) grading at 24 months with follow-up of up to 96 months. Standardized clinical outcomes and survival were compared.

Results: 156 and 151 patients were selected for PH and TR follow-up, respectively. Mean follow-up was 42.23±17.53 months and 42.60±17.67 months for PH and TR groups. Maximum follow-up was 96 months. PH was reduced post-TAVR (32.7% pre-TAVR vs. 20.5% post-TAVR, p<0.001), but no significant difference in TR was found (11.9% pre-TAVR vs. 10.6% post-TAVR). Increased left atrial (LA) diameter (p = 0.002) was associated to maintenance PH. Moreover, increased LA diameter (p=0.015) and increased EuroSCORE II (p=0.041) were correlated to new onset PH. On a multivariable Cox regression model, new onset PH (HR 6.17, 95% CI 1.71-22.29, p=0.005), diastolic dysfunction type II or III (HR 1.06, 95% CI 1.06-1.11, p=0.036) and LA diameter (HR 1.11, 95% CI 1.02-1.21, p=0.02) were independent predictors of long-term mortality. Conclusions: TAVR was able to reduce the severity of PH, but not TR, in this cohort. Additionally, long-term survival was affected by PH, diastolic dysfunction and LA sizing.



SEARCH

Full Programme Live Sessions Channels by Topic Industry Q&A On Demand Presentations On Demand Abstracts and Clinical Cases

THE ESC

ESC and You

What We Do

Membership & Fellowship

ESC Member Countries

Affiliated and Sister Societies

INDUSTRY

Industry Insights

NEWS

Congress News

ESC TV

ESC Podcasts ONLINE SUPPORT

FAQ / How to

Contact Us

FOLLOW US f in 🛩 🚥

Sign up to the ESC newsletter ightarrow

