

Consensus Report on PAH, TAVI and AI

Pulmonary arterial hypertension (PAH) is a progressive and life-threatening disease characterized by increased pulmonary vascular resistance and right ventricular dysfunction, requiring early diagnosis and timely management. This joint expert consensus report, developed in collaboration with the Turkish Society of Cardiology, Turkish Thoracic Society, and Pulmonary Vascular Disease Research Association (ADHAD), provides a practical, realworld framework for the diagnosis and management of PAH in Türkiye. We congratulate Avcı et al from Türkiye for this very useful report.

Senderovic and Galijašević from Bosnia and Herzegovina hypothesize in the review that myocardial bridging may create a spatially heterogeneous oxidative and inflammatory microenvironment, driven by altered shear stress, which may favor MPO 5 activation and potentially contribute to the formation of neutrophil extracellular traps (NETs) in the proximal coronary segment, thereby contributing to endothelial dysfunction, atherogenesis, and ischemic manifestations.

Suntur et al from Türkiye investigated the epidemiological, clinical, and microbiological characteristics of right-sided infective endocarditis, identify risk factors, and explore factors potentially associated with mortality in patients diagnosed with definite IE at a tertiary care center.

Frailty is common yet underdiagnosed in elderly patients with atrial fibrillation (AF), worsening outcomes and complicating treatment. Traditional assessments are timeconsuming and subjective, while physiological monitoring offers potential for automated detection. Combining machine learning with multimodal data especially ECG and clinical features may improve frailty identification, even in noisy real-world conditions. Hu and Feng from China evaluated this topic.

The role of minimally invasive robotic heart surgery in the surgical field is swiftly expanding due to technological advancements and the acknowledgment that its safety is comparable to conventional cardiac surgery. Eravcı et al from Türkiye aimed to evaluate permanent pacemaker implantation rates, associated perioperative determinants, and the course of pacing rates during follow-up in a single-center cohort undergoing minimally invasive robotic cardiac surgery.

Transcatheter aortic valve implantation (TAVI) has become a well-established treatment for patients with severe aortic stenosis who are at intermediate or high surgical risk. Despite procedural advances, post-procedural conduction disturbances remain among the most common complications, particularly new-onset left bundle branch block (LBBB). Şahan et al from Türkiye investigated the impact of balloon pre- and post-dilatation on the cardiac conduction system during TAVI.

Tavli et al from Türkiye studied the diagnostic performance of a new artificial intelligence model, the compact unified model (CU-Model), for moderate-to-severe carotid artery stenosis using digital subtraction angiography (DSA) images compared to clinical reference standards Classical low-flow low-gradient aortic stenosis (cLFLG AS) is associated with poor prognosis and adverse clinical outcomes despite

EDITORIAL

Çetin Erol

Editor-in-Chief, Ankara, Türkiye



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transcatheter aortic valve implantation (TAVI). Identifying prognostic markers in this high-risk population may improve risk stratification and clinical management. Şengör et al from Türkiye tried to find out independent predictors of all-cause mortality in patients with cLFLG AS undergoing TAVI.

Body mass index (BMI), the most widely used adiposity metric, cannot differentiate fat distribution from lean mass, limiting its prognostic utility. Kahraman et al from Türkiye compared the weight-adjusted waist index (WWI) with BMI, waist-to-height ratio (WHtR), and relative fat mass (RFM) as

predictors of all-cause and cardiovascular mortality using a z-standardized framework.

We received a very important Scientific letter by Canpolat and Kayıkçıoğlu from Türkiye titled 'Artificial Intelligence for Peer Review in Cardiovascular Journals: Promise, Pitfalls, and a Path to Responsible Hybrid Adoption'. I hope it will cause fruitful discussions.

And new case reports, letters, e-page original...

I hope this very attractive issue will be interest of our readers.