

Metoprolol Reduces Hemodynamic and Metabolic Overload in Asymptomatic Aortic Valve Stenosis Patients.

Hansson NH, *et al.* *Circ Cardiovasc Imaging.* 2017;10(10). pii: e006557.

- Currently, no pharmacological treatment can modify the natural history of aortic valve stenosis (AS). There is a critical need to explore treatment strategies which could postpone/prevent the need for aortic valve replacement in patients with asymptomatic AS.
- In a 22 week double-blind study in 40 patients with moderate-severe asymptomatic AS, metoprolol decreased heart rate, increased systolic ejection time and reduced aortic valve gradients, without affecting stroke volume. These correlated with lower myocardial oxygen consumption and improved myocardial efficiency.

Metoprolol displays favorable hemodynamic and metabolic effects and could improve outcomes in patients with asymptomatic AS.