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Name: Ashraf Fayad
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Erstautor: Associate Professor Ashraf fayad, University of Ottawa, Ottawa
Coautoren: Professor Homer Yang, University of Ottawa, Ottawa
Abstracttitel: Are β -Blockers an effective treatment in Perioperative Diastolic dysfunction?

Purpose: Perioperative diastolic dysfunction (DD) is increasingly recognized as a risk factor that may lead to a higher morbidity and mortality. β -blockers are well-established treatment for DD. The aim of the study is to examine whether intraoperative DD can be resolved by administering intravenous β -blockers.

Methods: After obtaining the ethical approval, 4 patients undergoing aortic abdominal aneurysm repair were examined for their diastolic function utilizing intraoperative transesophageal echocardiography (TEE). Diastolic function was measured before/during aortic cross clamping and before and after β -blockers administration. Transmitral inflow pulse wave and tissue Doppler of the mitral annulus were obtained and the severity of DD was documented.

Results: Two patients were classified to have mild DD (impaired relaxation) during aortic cross clamp. The other two patients had moderate DD (Pseudonormal) during aortic cross clamp. Metoprolol administration resulted in restoring diastolic parameters back to normal in patients with mild DD. Metoprolol administration in the moderate DD patients did not change any of the diastolic parameters.

Conclusion: Patients with mild DD may benefit from β -blockers treatment. β -blocker may not be the drug of choice in treatment of patients with advanced DD. Further studies are warranted.