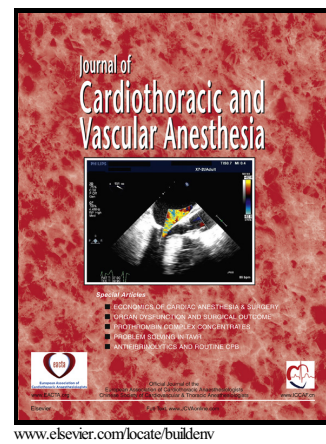


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Moderate Aortic Valvular Insufficiency Invalidates Vortex Formation Time as an Index of Left Ventricular Filling Efficiency in Patients with Severe Degenerative Calcific Aortic Stenosis Undergoing Aortic Valve Replacement

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Moderate aortic valvular insufficiency invalidates vortex formation time as an index of left ventricular filling efficiency in patients with severe degenerative calcific aortic stenosis undergoing aortic valve replacement

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Running Title: AS with or without AI and VFT

Key Words: Aortic stenosis; aortic insufficiency; transmitral blood flow efficiency; vortex formation time; early left ventricular filling; fluid mechanics; diastolic function; intraventricular blood flow

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