

CARDIOVASCULAR SIDE EFFECTS

Prior to Rituximab therapy:

- **Pretreatment echocardiogram** may be helpful when considering rituximab treatment in patients who have a family history of cardiomyopathy.
- All patients should undergo prior cardiac clinical evaluation with the assessment of cardiovascular risk factors and undergo baseline Echocardiogram (ECG), two dimensional (2D) echocardiography (ECHO), and treadmill test.

***Ideally, all rituximab infusions need to be given with cardiac monitoring in intensive cardiac care unit setup, so that any untoward cardiac arrhythmias can be tackled timely and treated promptly.⁽¹⁾

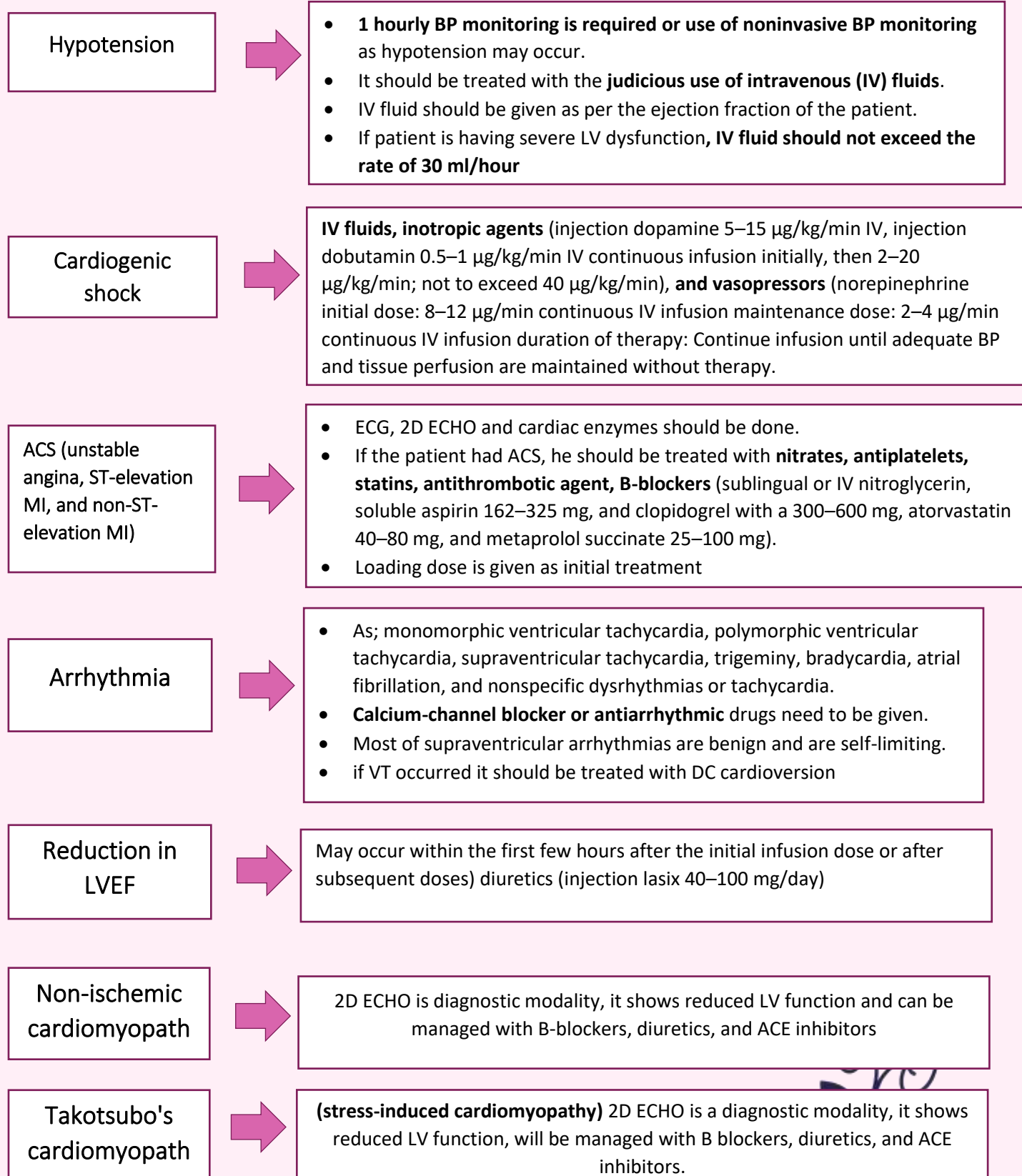
During Rituximab infusion:

- **Discontinue infusions** for serious or life-threatening cardiac arrhythmias. Perform cardiac monitoring during and after all infusions of Rituximab for patients who develop clinically significant arrhythmias, or who have a history of arrhythmia or angina.⁽²⁾
- Monitoring for chest pain, breathlessness, palpitations, giddiness, or syncope during the infusion should be done and treated promptly so that any untoward complication can be avoided.
- Any chest pain while on infusion of rituximab warrants ECG and consultation with cardiac physician.

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Treatment of specific cardiovascular events due to rituximab⁽⁴⁾



(1) Cheungpasitporn, Wisit, Stephen L. Kopecky, Ulrich Specks, Kharmen Bharucha, and Fernando C. Fervenza. 2017. "Non-Ischemic Cardiomyopathy after Rituximab Treatment for Membranous Nephropathy." Journal of Renal Injury Prevention 6 (1): 18–25.

(2) HIGHLIGHTS OF PRESCRIBING INFORMATION. [cited 2021 Nov 21]; Available from: www.fda.gov/medwatch.

(3) Verma, Sunil Kr. 2016. "Updated Cardiac Concerns with Rituximab Use: A Growing Challenge." Indian Heart Journal 68 Suppl 2 (September): S246–48.

(4) Patil, Vaibhav Bansidhar, Snehal Balvant Lunge, and Bhavana Ravindra Doshi. 2020. "Cardiac Side Effect of Rituximab." Indian Journal of Drugs in Dermatology 6 (1): 49.