

Cardiac Dysrhythmias (Tachycardia) – 10.061

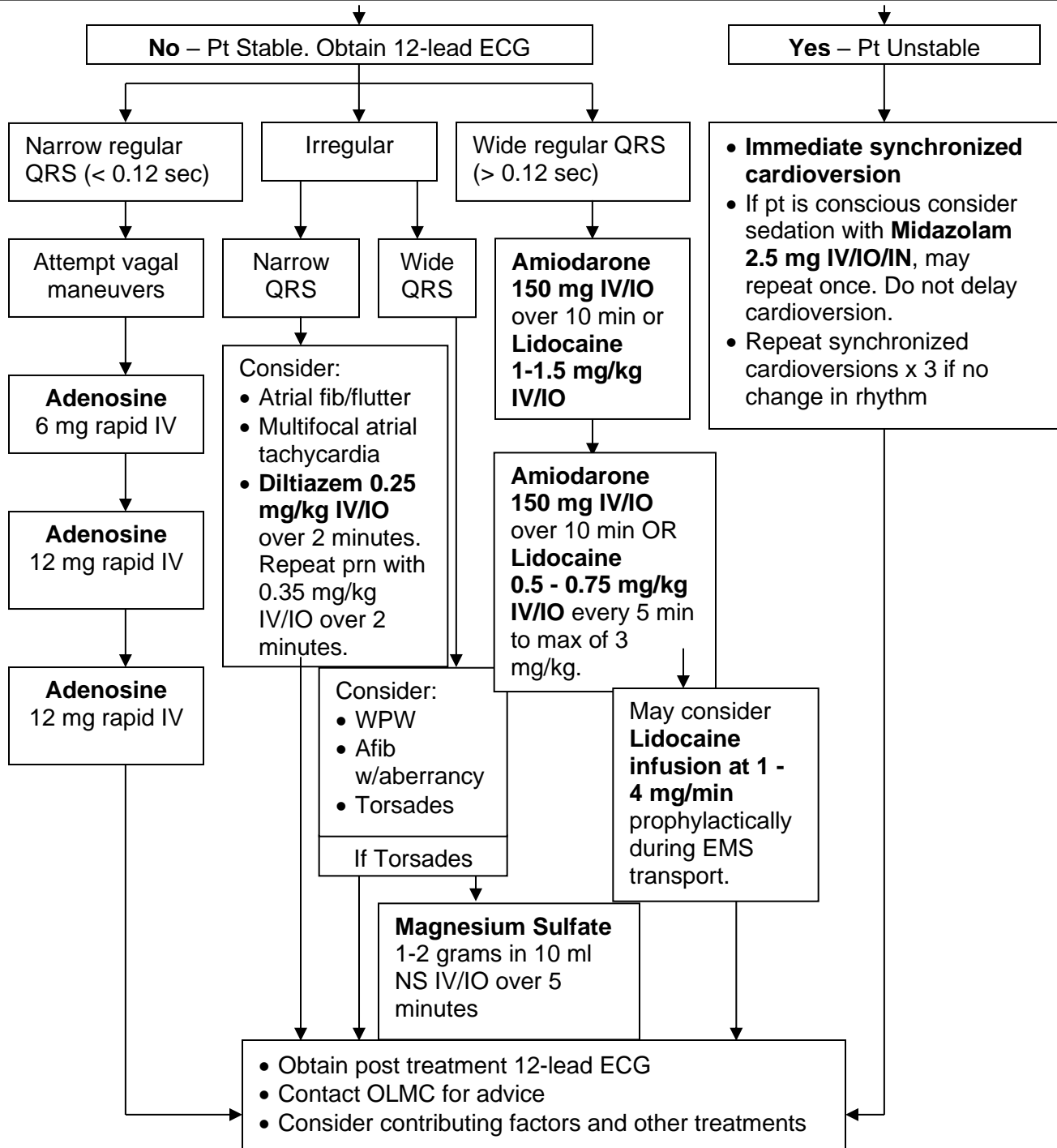
Treat per Universal Patient Care

Are signs or symptoms of poor perfusion caused by the dysrhythmia present?

(Altered mental status, ischemic chest discomfort, acute heart failure, hypotension or other signs of shock)

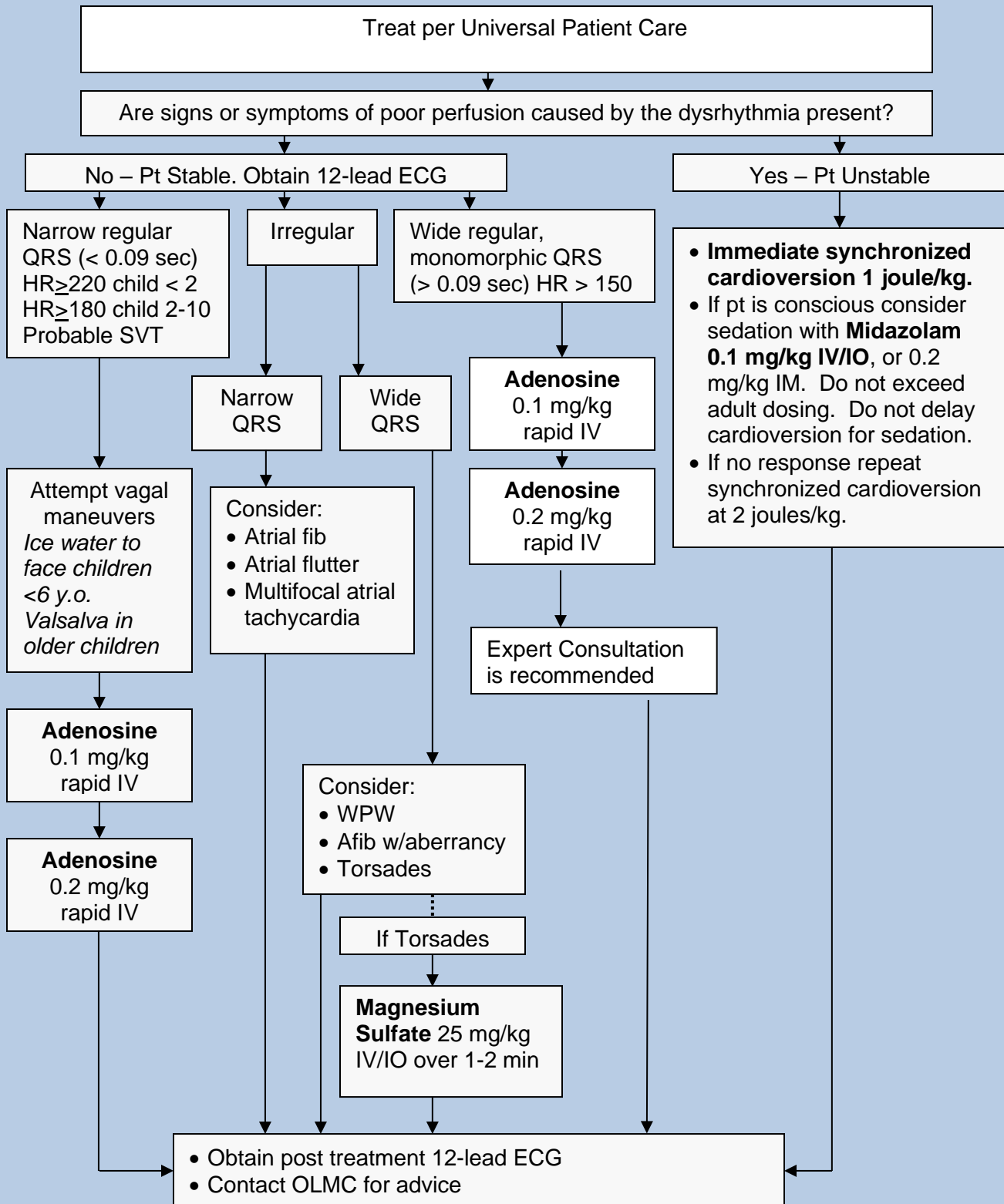
Rate related symptoms uncommon if HR < 150 bpm. Consider alternate causes such as sepsis or toxidrome and fluid bolus of 500 mL, repeating as necessary (unless patient is demonstrating findings of heart failure exacerbation such as rales, JVD, or significant peripheral edema).

In asymptomatic patients (or those with only minimal symptoms, such as palpitations), consider close observation or treatment with fluid bolus rather than immediate therapy with antiarrhythmic medication.



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PEDIATRIC PATIENTS:



If patient is not symptomatic with a narrow regular QRS (< 0.09 sec) and has a HR < 220 (child less than 2) or HR < 180 (child 2-10) consider Sinus Tachycardia and treat possible causes (see Notes & Precautions below).

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NOTES & PRECAUTIONS:

- A. In stable narrow complex irregular tachycardia, consider **Calcium Chloride 500 mg slow** IV/IO before Diltiazem if systolic BP < 90 mmHg. If patient is unstable at any time, perform synchronized cardioversion.
- B. In stable regular wide complex tachycardia which is monomorphic, consider **Adenosine** if SVT with aberrancy is suspected.
- C. If the patient is asymptomatic, tachycardia may not require treatment in the field. Continue to monitor the patient for changes during transport. The acceptable upper limit for heart rate for sinus tachycardia is 220 minus the patient's age.
- D. Other possible causes of tachycardia include:
 1. Acidosis
 2. Hypovolemia
 3. Hyperthermia/fever
 4. Hypoxia
 5. Hypo/Hyperkalemia
 6. Hypoglycemia
 7. Infection
 8. Pulmonary embolus
 9. Tamponade
 10. Toxic exposure
 11. Tension pneumothorax
- E. If pulseless arrest develops, follow Cardiac Arrest protocol.
- F. All doses of **Adenosine** should be reduced to one-half (50%) in the following clinical settings:
 1. History of cardiac transplantation.
 2. Patients who are on Carbamazepine (Tegretol) and Dipyridamole (Persantine, Aggrenox).
 3. Administration through any central line.
- G. Adenosine should be given with caution to patients with asthma.
- H. Patients with Atrial fibrillation duration of >48 hours are at increased risk for cardioembolic events. Electric or pharmacologic cardioversion should not be attempted unless patient is unstable. Contact OLMC.

KEY CONSIDERATIONS:

Medical history, medications, shortness of breath, angina or chest pain, palpitations, speed of onset

HEART MONITOR ADULT SYNCHRONOUS CARIOVERSION SETTINGS

- **Medtronic Lifepak®** – 100j, 200j, 300j, 360j
- **Philips MRX®** – 100j, 120J, 150J, 150J
- **Zoll E-Series®** – 70j, 120j, 150j, 200j