2.08 DYSRHYTHMIA: TACHYCARDIA EMSAC OCTOBER 2024

BLS Treatment

Position of comfort.

- Primary Survey: identify and immediately correct life threats
- ABCs, vital signs and oxygen as indicated
- <u>Secondary Survey</u>: relevant physical examination of the patient
- Call for ALS resource if patient is symptomatic
- NPO
- Oxygen as indicated.

ALS Treatment

Current American Heart Association Guidelines concerning Emergency Cardiac Care assessments and interventions shall always take precedence over local protocols when there is a conflict concerning techniques of resuscitation.

Current Advanced Cardiac Life Support should be followed in conjunction with this protocol/algorithm

- IV/IO with Normal Saline TKO, preferably at antecubital fossa.
- 12-lead EKG (If symptomatic, do not delay therapy in order to obtain 12 lead).
- Treat if >150 BPM and patient is symptomatic.

STABLE REGULAR AND NARROW (QRS < 0.12 seconds):

- Vagal maneuvers (Valsalva, cough or breath holding).
- Adenosine

STABLE REGULAR AND WIDE (QRS > 0.12 seconds):

- Amiodarone
- Give Magnesium Sulfate in suspected hypomagnesemia

STABLE TORSADES de POINTES

 For Torsades de Pointes, a Administer Magnesium Sulfate.

HEMODYNAMICALLY UNSTABLE REGULAR: NARROW OR

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- Synchronized cardioversion (refer to Protocol 7.19 Cardioversion)
 As a general guideline:
 - Narrow QRS and regular: start at 70J
 - Wide QRS and regular: start at 100J
- If sedation is needed for awake patient during anticipated cardioversion may strongly consider administer Midazolam

If UNSTABLE, NARROW, REGULAR and synchronized cardioversion fails:

Administer Adenosine may be substituted for cardioversion

If UNSTABLE REGULAR AND WIDE and synchronized cardioversion fails:

• Administer Amiodarone.

HEMODYNAMICALLY UNSTABLE IRREGULAR AND WIDE (Including Torsades de Pointes)

- If unable to synchronize (including Torsades de Pointes) go directly to unsynchronized cardioversion (defibrillation) starting at 120J
- Give Magnesium Sulfate for Torsades de Pointes

Base Hospital Contact Criteria

• Contact Base Hospital physician if considering medications in addition to Midazolam for sedation.

Comments

ATRIAL FIBRILLATION

- Only administer synchronized cardioversion for atrial fibrillation if patient is unstable.
- Hemodynamically unstable patients may be defined as a heart rate >150 bpm with associated signs and symptoms: hypotension (<90 SBP), acutely altered mental status, signs of shock, significant ischemic chest discomfort, shortness of breath, or pulmonary edema likely due to the arrhythmia.
- This protocol is not intended to treat tachycardia that is secondary to underlying conditions (e.g. dehydration, trauma, sepsis or toxins)
- Do not use Adenosine in patients with 2nd or 3rd degree heart blocks, sick sinus syndrome, polymorphic ventricular tachycardia, or known history of Wolff-Parkinson-White (WPW)
- Midazolam is not contraindicated if SBP is < 90 if used for pre-procedural sedation

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