

Tachycardia With a Pulse Algorithm

Assess appropriateness for clinical condition.
Heart rate typically $\geq 150/\text{min}$ if tachyarrhythmia.

Identify and treat underlying cause

- Maintain patent airway; assist breathing as necessary
- Oxygen (if hypoxemic)
- Cardiac monitor to identify rhythm; monitor blood pressure and oximetry

Persistent tachyarrhythmia causing:

- Hypotension?
- Acutely altered mental status?
- Signs of shock?
- Ischemic chest discomfort?
- Acute heart failure?

Yes

Synchronized cardioversion

- Consider sedation
- If regular narrow complex, consider adenosine

No

Wide QRS?
 ≥ 0.12 second

Yes

- IV access and 12-lead ECG if available
- Consider adenosine only if regular and monomorphic
- Consider antiarrhythmic infusion
- Consider expert consultation

No

- IV access and 12-lead ECG if available
- Vagal maneuvers
- Adenosine (if regular)
- β -Blocker or calcium channel blocker
- Consider expert consultation

Doses/Details

Synchronized Cardioversion

Initial recommended doses:

- Narrow regular: 50-100 J
- Narrow irregular: 120-200 J biphasic or 200 J monophasic
- Wide regular: 100 J
- Wide irregular: defibrillation dose (NOT synchronized)

Adenosine IV Dose:

First dose: 6 mg rapid IV push; follow with NS flush.
Second dose: 12 mg if required.

Antiarrhythmic Infusions for Stable Wide-QRS Tachycardia

Procainamide IV Dose:

20-50 mg/min until arrhythmia suppressed, hypotension ensues, QRS duration increases $>50\%$, or maximum dose 17 mg/kg given. Maintenance infusion: 1-4 mg/min. Avoid if prolonged QT or CHF.

Amiodarone IV Dose:

First dose: 150 mg over 10 minutes. Repeat as needed if VT recurs. Follow by maintenance infusion of 1 mg/min for first 6 hours.

Sotalol IV Dose:

100 mg (1.5 mg/kg) over 5 minutes. Avoid if prolonged QT.

Aha Acls Study Guide 2013

Devendra Richhariya



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ACLS Study Guide - E-Book Barbara J Aehlert, 2021-08-05 NEW Updated content includes the latest guidelines from the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care and the International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations NEW 20 new illustrations are added to the book s hundreds of illustrations [AACN Procedure Manual for Progressive and Critical Care - E-Book](#) AACN, 2023-07-07 American Journal of Nursing AJN Book of the Year Awards 1st Place in Critical Care Emergency Nursing 2024 Selected for Doody s Core Titles 2024 with Essential Purchase designation in Critical Care Edited by the American Association of Critical Care Nurses and written by more than 100 critical care experts under the direction of Karen L Johnson PhD RN FAAN this definitive reference represents the gold standard of care for procedures performed in progressive and critical care settings It guides you through procedures common to the adult critical care environment including those performed by advanced practice nurses in an illustrated step by step format This edition now in in full color features new procedures new and updated illustrations and updated content throughout reflecting the latest evidence based guidelines and national and international protocols Quick reference tabs make it easier than ever to locate content quickly This new edition integrates key AACN initiatives such as Practice Alerts and coordinates closely with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition Chapter specific quick links employ QR codes for instant access to high quality online references Edited by the American Association of Critical Care Nurses written by more than 100 expert critical care clinicians under the direction of Karen L Johnson PhD RN FAAN and extensively reviewed by more than 100 additional critical care experts to ensure the accuracy and currency Comprehensive coverage includes all procedures commonly performed in progressive and critical care settings including those performed by advanced practice nurses indicated by an AP icon Straightforward step by step organization uses consistent headings to make following a procedure and finding the various supporting elements quick and easy with bulleted lists tables and detailed illustrations throughout to ensure that content is easy to reference and follow Rationales for all interventions in patient and family education assessment patient preparation procedure and monitoring help students understand the rationale for every step and a level of evidence is provided when a research base exists to substantiate an intervention giving insight into the strength of recommendations NEW Additional procedures new and updated illustrations and updated content throughout reflect the latest evidence based guidelines and national and international protocols NEW Full color design with color reference tabs enhances navigation plus full color illustrations reinforce understanding UPDATED Key AACN initiatives such as Practice Alerts are integrated throughout and content coordinates with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition NEW Chapter specific quick links via QR codes provide quick access to online references which have been updated and limited to the highest value sources **Sandra Smith's Review for NCLEX-RN** Sandra

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