# Tachycardia With a Pulse Algorithm

Assess appropriateness for clinical condition. Heart rate typically ≥150/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: Synchronized Hypotension? cardioversion Yes Acutely altered Consider sedation mental status? If regular narrow Signs of shock? complex, consider Ischemic chest adenosine discomfort? Acute heart failure? IV access and 12-lead ECG No if available Consider adenosine only Yes Wide QRS? if regular and ≥0.12 second monomorphic Consider antiarrhythmic infusion No Consider expert consultation IV access and 12-lead ECG if available Vagal maneuvers Adenosine (if regular) ß-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**

Sandra Fucci Smith, Marianne P. Barba

#### Aha Acls Study Guide 2013:

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 AIN 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 guickly 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 guick 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

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Donohoe Dennison, Kathleen Farrell, 2015-11-16 From the author of the bestselling Pass CCRN and Pass CEN Pass PCCN applies Dennison's time tested approach to the Progressive Care Nursing Certification exam and follows the latest PCCN exam test plan with one or more chapters for each section of the exam This all new review book features a thorough review in narrative format for each chapter and covers all the content you need including the disorders unique to the PCCN to master the PCCN exam Learning Activities interspersed throughout the book as well as more than 900 review questions on the companion Evolve website are geared towards progressive care nurses and offer valuable test taking experience Content follows the latest PCCN test plan to ensure you have the most current information for exam preparation Companion Evolve website with more than 900 multiple choice review questions available in Study Mode or Exam Mode lets you self test online UNIQUE Learning Activities provide fun and stimulating ways to learn critical concepts such as crossword puzzles matching and fill in the blank questions Case studies consisting of patient scenarios and associated learning activities stimulate critical thinking and promote application of knowledge Appendices include common abbreviations and acronyms laboratory values formulas hemodynamic monitoring essentials and a dysrhythmias reference including etiology criteria significance and management so you can quickly reference important information when studying for the PCCN examination The Intensive Care Unit Manual Paul N. Lanken, Scott Manaker, Benjamin A. Kohl, C. William Hanson, 2013-09-26 Intensive Care Unit Manual is a practical hands on how to manual that covers the full spectrum of conditions encountered in the ICU guiding you step by step from your initial approach to the patient through diagnosis and treatment Compact affordable and comprehensive the ICU Manual puts all the critical care information you need right at your fingertips Stay at the forefront of critical care with a practice oriented relevant and well illustrated account of the pathophysiology of critical disease presented in a highly readable format Gain valuable insight into the recognition evaluation and management of critical conditions such as respiratory hemodynamic and infectious diseases management of ICU patients with special clinical conditions cardiovascular hematologic and neurological disorders poisoning and overdoses trauma and burns and much more

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