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VF/pVT arrest is relatively weak, limited to short-term outcomes, and nonexistent for cardiac arrest presenting with nonshockable rhythms.²⁰¹⁶ Recommendations for Antiarrhythmic Drugs Immediately After ROSC Following Cardiac Arrestβ-Blocker Recommendation—Updated1 There is insufficient evidence to support or refute the routine use of a β-blocker early (within the first hour) after ROSC.Lidocaine Recommendations—Updated1 There is insufficient evidence to support or refute the routine use of lidocaine early (within the first hour) after ROSC.2 In the absence of contraindications, the prophylactic use of lidocaine may be considered in specific circumstances (such as during emergency medical services transport) when treatment of recurrent VF/pVT might prove to be challenging (Class IIb; Level of Evidence C-LD).DiscussionEvidence supporting the prophylactic use of lidocaine or β-blockers on ROSC after VF/pVT cardiac arrest is insufficient to support or refute their routine use. doi: 10.1161/CIR.0000000000000541AbstractGoogle Scholar4. 2014; 85:1337–1341. In these patients, time from collapse to drug administration was likely shorter than among patients with an unwitnessed arrest. doi: 10.1161/circulationaha.110.970988LinkGoogle Scholar8. In 1 observational study that was evaluated for the ACLS guidelines in the 2015 guidelines update, oral or intravenous metoprolol or bisoprolol administration during hospitalization after VF/pVT cardiac arrest was associated with a significantly higher adjusted survival rate in recipients compared with nonrecipients at 72 hours after ROSC and at 6 months.²⁰ This study was not considered by ILCOR in the 2018 evidence review because predefined criteria for the evaluation of post-ROSC prophylactic antiarrhythmic drugs included only drug administration within 1 hour (as opposed to within 72 hours) after ROSC. doi: 10.1016/S0002-8703(99)70401-1CrossrefMedlineGoogle Scholar22. Amiodarone, lidocaine, or placebo in out-of-hospital cardiac arrest.N Engl J Med. There are no new studies that address this topic. Morrison LJ, Gent LM, Lang E, Nunnally ME, Parker MJ, Callaway CW, Nadkarni VM, Fernandez AR, Billi JE, Egan JR, Griffin RE, Shuster M, Hazinski MF. Effects of prophylactic antiarrhythmic drug therapy in acute myocardial infarction: an overview of results from randomized controlled trials.JAMA. CPR indicates cardiopulmonary resuscitation; ET, endotracheal; IO, intraosseous; IV, intravenous; pVT, pulseless ventricular tachycardia; and VF, ventricular fibrillation.The writing group reaffirms that magnesium should not be used routinely during cardiac arrest management but may be considered for torsades de pointes (ie, polymorphic VT associated with long-QT interval). AbstractAntiarrhythmic medications are commonly administered during and immediately after a ventricular fibrillation/pulseless ventricular tachycardia cardiac arrest. The recommended dose for amiodarone is unchanged, with randomized trials supporting an initial IV/IO dose of 300 mg with a second IV/IO dose of 150 mg if required.^{10,11} Both the ROC-ALPS and ALIVE trials permitted dose reductions in lower-weight patients; however, higher cumulative bolus doses of amiodarone have not been studied in cardiac arrest. There was no statistically significant difference in patient survival between the 2 active drugs. The other formulation contains captisol, which has no known vasoactive effects. This underscores the potential importance and effects of early recognition and treatment of out-of-hospital cardiac arrest on outcome. In 2015, the ILCOR process transitioned to a continuous one, with systematic reviews performed as new published evidence warrants them or when the ILCOR ALS Task Force prioritizes a topic. This randomized trial did not explore the timing or sequence of lidocaine versus epinephrine administration.No randomized trials were identified that assessed the efficacy of lidocaine for treatment of in-hospital cardiac arrest.MagnesiumMagnesium acts as a vasodilator and is an important cofactor in regulating sodium, potassium, and calcium flow across cell membranes. Use of esmolol after failure of standard cardiopulmonary resuscitation to treat patients with refractory ventricular fibrillation.Resuscitation. LinkUniversity of Texas Southwestern Medical CenterNoneNoneNoneNoneNoneNoneNonePeter T. The expert writing group for this 2018 ACLS guidelines focused update reviewed the studies and analysis of the 2018 CoSTR summary² and carefully considered the ILCOR consensus recommendations in light of the structure and resources of the out-of-hospital and in-hospital resuscitation systems and the providers who use AHA guidelines. This article includes the revised recommendation that providers may consider either amiodarone or lidocaine to treat shock-refractory ventricular fibrillation/pulseless ventricular tachycardia cardiac arrest.This 2018 American Heart Association (AHA) focused update on the advanced cardiovascular life support (ACLS) guidelines for cardiopulmonary resuscitation (CPR) and emergency cardiovascular care (ECC) is based on the systematic review of antiarrhythmic therapy and the resulting “2018 International Consensus on CPR and ECC Science With Treatment Recommendations” (CoSTR) from the Advanced Life Support (ALS) Task Force of the International Liaison Committee on Resuscitation (ILCOR). Future randomized studies are needed with rigorous evaluation of the impact of magnesium on survival and neurological outcomes to determine the importance of magnesium administration in this condition.The writing group is aware of increased interest in and early studies of β-adrenergic-blocking drugs used during cardiac arrest.^{18,19} The question of the effectiveness of these drugs has been referred to ILCOR for future systematic review.Antiarrhythmic Drugs Immediately After ROSC Following Cardiac ArrestThe 2018 ILCOR systematic review sought to determine whether the prophylactic administration of antiarrhythmic drugs after successful termination of VF/pVT cardiac arrest results in better outcome. doi: 10.1056/NEJMoa013029CrossrefMedlineGoogle Scholar11. Halperin JL, Levine GN, Al-Khatib SM, Birtcher KK, Bozkurt B, Brindis RG, Cigarroa JE, Curtis LH, Fleisher LA, Gentile F, Gidding S, Hlatky MA, Ikonomidis J, Joglar J, Pressler SJ, Wijeyesundera DN. Amiodarone as compared with lidocaine for shock-resistant ventricular fibrillation.N Engl J Med. Treatment for this indication is arguably beneficial even if there are as yet no studies showing long-term survival benefit, provided that the intervention itself is not harmful. Although both drugs have precedent for use during acute myocardial infarction, the evidence for their use in patients immediately after resuscitation from cardiac arrest is limited. Amiodarone for resuscitation after out-of-hospital cardiac arrest due to ventricular fibrillation.N Engl J Med. The sequence and timing of interventions recommended in the current ACLS Adult Cardiac Arrest Algorithms (Figures 1 and 2) will be affected by the number of providers participating in the resuscitation, their skill levels, and the ability to secure intravenous/intraosseous access in a timely manner.Writing Group DisclosuresWriting Group MemberEmploymentResearch GrantOther Research SupportSpeakers’ Bureau/HonorariaExpert WitnessOwnership InterestConsultant/Advisory BoardOtherAshish R. doi: 10.1161/CIR.0000000000000261LinkGoogle Scholar7. However, the writing group acknowledges that there are circumstances (eg, during emergency medical services transport of a resuscitated patient after VF/pVT arrest) when recurrence of VF/pVT might prove logistically challenging to treat; in such situations, the use of lidocaine may be considered to prevent recurrence. 2003; 59:319–328. For example, reducing the risk of recurrent arrhythmias with the use of arrhythmia prophylaxis can reduce the risk of recurrent cardiac arrest and its sequelae during transport, which may be particularly important when transport intervals are prolonged. Soar J, Donnino MW, Andersen LW, Berg KM, Böttiger BW, Callaway CW, Deakin CD, Drennan J, Neumar RW, Nicholson TC, O’Neil BJ, Paiva EF, Parr MJ, Reynolds JC, Ristagno G, Sandroni C, Wang TL, Welsford M, Nolan JP, Morley PT. The fact that only 2 observational studies addressing this question have been performed to date underscores a sizeable knowledge gap and limits the conclusions that can be drawn from currently available information.²⁰¹⁸ Evidence Summaryβ-Adrenergic-Blocking Drugsβ-Adrenergic-blocking drugs blunt the heightened catecholamine activity that can precipitate cardiac arrhythmias. One formulation contains the diluent polysorbate, which is a vasoactive solvent that can potentially cause hypotension. Part 7: adult advanced cardiovascular life support: 2015 American Heart Association guidelines update for cardiopulmonary resuscitation and emergency cardiovascular care.Circulation. Tzivoni D, Banai S, Schuger C, Benhorin J, Keren A, Gottlieb S, Stern S. 2017 American Heart Association focused update on adult basic life support and cardiopulmonary resuscitation quality: an update to the American Heart Association guidelines for cardiopulmonary resuscitation and emergency cardiovascular care.Circulation. Two of the trials compared magnesium with placebo for cardiac arrest with any presenting rhythm,^{12,13} and 2 trials compared magnesium with placebo for VF/pVT cardiac arrest.^{14,15} Although the 4 trials were underpowered to evaluate long-term outcomes, with a total of only 217 patients randomized to magnesium and 227 randomized to placebo across the 4 studies, the results were consistent in showing no benefit associated with magnesium administration.Magnesium is commonly used to treat torsades de pointes (ie, polymorphic ventricular tachycardia [VT] associated with long-QT interval), but it actually acts to prevent the reinitiation of torsades rather than to pharmacologically convert polymorphic VT. In addition, the “2017 American Heart Association Focused Update on Adult Basic Life Support and Cardiopulmonary Resuscitation Quality: An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care” contains updated AHA recommendations for CPR delivered to adult patients in cardiac arrest.⁸ Through this systematic evaluation process, several issues have been identified in related areas that may be the subject of future systematic reviews.BackgroundShock-refractory VF/pVT refers to VF or pVT that persists or recurs after ≥1 shocks. 2001; 49:245–249. These drugs also reduce ischemic injury and may have membrane-stabilizing effects. Magnesium in cardiac arrest (the MAGIC trial).Resuscitation. However, it is unclear whether these medications improve patient outcomes. In addition, the writing group determined Classes of Recommendation and Levels of Evidence according to the most recent recommendations of the American College of Cardiology/AHA Task Force on Clinical Practice Guidelines⁴ (Table) by using the process detailed in “Part 2: Evidence Evaluation and Management of Conflicts of Interest” in the “2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.”⁵Table. doi: 10.1016/S0300-9572(97)0062-2CrossrefMedlineGoogle Scholar13. Because no antiarrhythmic drug has yet been shown to increase long-term survival or survival with good neurological outcome, these treatment recommendations are based primarily on potential benefits in short-term outcomes (such as ROSC or survival to hospital admission) and on a potential survival benefit in patients with witnessed arrest, for whom time to drug administration may be shorter.Finally, the optimal sequence of ACLS interventions for VF/pVT cardiac arrest, including administration of a vasopressor or antiarrhythmic drug, and the timing of medication administration in relation to shock delivery are not known. Survival to hospital admission was higher in patients receiving either amiodarone or lidocaine than in those receiving placebo, but there was no statistically significant difference between the 2 active drugs. 2018; 137:e7–e13. doi: 10.1161/CIR.0000000000000312LinkGoogle Scholar5. 2002; 346:884–890. doi: 10.1016/S0140-6736(97)05048-4CrossrefMedlineGoogle Scholar14. doi: 10.1161/CIR.0000000000000539LinkGoogle Scholar9. No randomized trials were identified that address the use of amiodarone during in-hospital cardiac arrest.LidocaineIntravenous lidocaine is an antiarrhythmic drug of long-standing and widespread familiarity. Once the ILCOR ALS Task Force develops a CoSTR statement, AHA ACLS science experts review the relevant topics and update the AHA’s ACLS guidelines as needed, typically on an annual basis. Unfortunately, these recommendations are based on low-quality evidence, representing a significant knowledge gap concerning the use of magnesium for VF/pVT. Treatment of torsade de pointes with magnesium sulfate.Circulation. 1999; 137:792–798. 1999; 341:871–878. ACC/AHA Recommendation System: Applying Class of Recommendation and Level of Evidence to Clinical Strategies, Interventions, Treatments, or Diagnostic Testing in Patient Care* (Updated August 2015)This 2018 ACLS guidelines focused update includes updates only to the recommendations for the use of antiarrhythmics during and immediately after adult ventricular fibrillation (VF) and pulseless ventricular tachycardia (pVT) cardiac arrest. Manz M, Pfeiffer D, Jung W, Lueritz B, Neumar RW, Otto CW, Link MS, Kronick SL, Shuster M, Callaway CW, Kudenchuk PJ, Ornato JP, McNally B, Silvers SM, Passman RS, White RD, Hess EP, Tang W, Davis D, Sinz E, Morrison LJ. doi: 10.1016/j.resuscitation.2016.07.243CrossrefMedlineGoogle Scholar19. 2015; 132(suppl 2):S444–S464. 2016; 374:1711–1722.

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