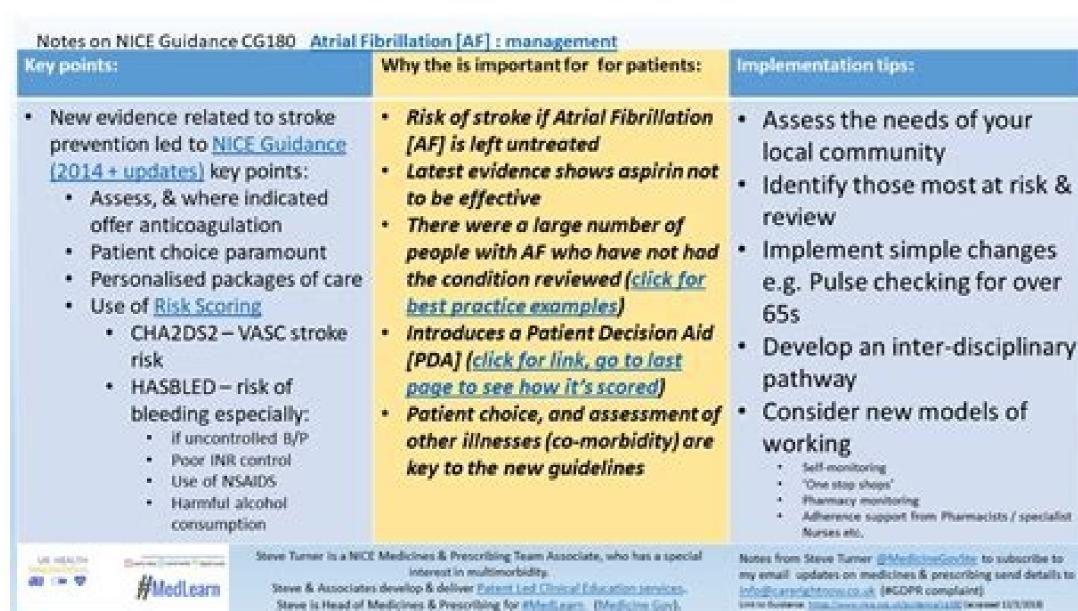
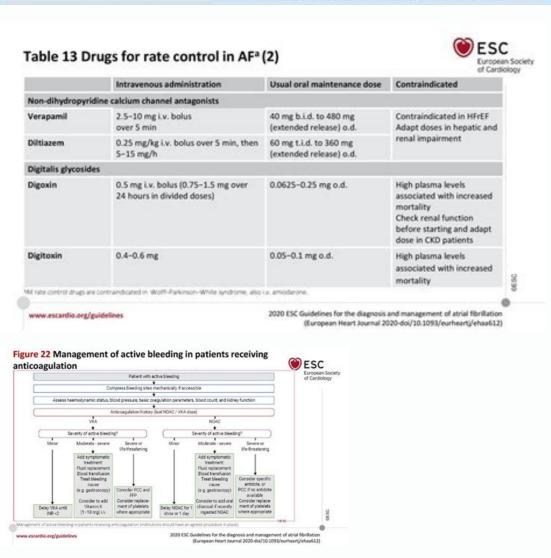
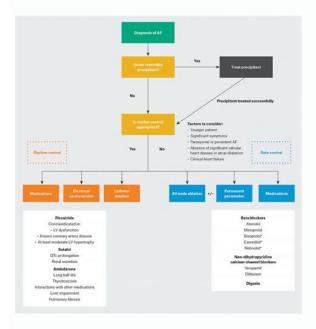
Atrial fibrillation clinical practice guidelines (2019)

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Hb	B-R	14. For patients with AF (except with moderate-to-severe mitral stenosis or a mechanical heart valve) and moderate-to-severe CKD (serum creatinine ≥1.5 mg/dL [apixaban], CrCl 15 to 30 mL/min [dabigatran], CrCl ≤50 mL/min [rivaroxaban], or CrCl 15 to 50 mL/min [edoxaban]) with an elevated CHA₂DS₂-VASc score, treatment with reduced doses of direct thrombin or factor Xa inhibitors may be considered (e.g., dabigatran, rivaroxaban, apixaban, or edoxaban) (S4.1.1-11). MODIFIED: Exclusion criteria are now defined as moderate-to-severe mitral stenosis or a mechanical heart valve, and this recommendation has been changed in response to the approval of edoxaban. LOE was updated from C to B-R. (Section 4.1. in the 2014 AF Guideline)
ШЬ	C- LD	15. For patients with AF (except with moderate-to-severe mitral stenosis or a mechanical heart valve) and a CHA ₂ DS ₂ -VASc score of 1 in men and 2 in women, prescribing an oral anticoagulant to reduce thromboembolic stroke risk may be considered (S4.1.1-31-S4.1.1-35). MODIFIED: Exclusion criteria are now defined as moderate-to-severe mitral stenosis or a mechanical heart valve, and evidence was added to support separate risk scores by sex. LOE was updated from C to C-LD. (Section 4.1. in the 2014 AF Guideline)
III: No Benefit	C-EO	16. In patients with AF and end-stage CKD or on dialysis, the direct thrombin inhibitor dabigatran or the factor Xa inhibitors rivaroxaban or edoxaban are not recommended because of the lack of evidence from clinical trials that benefit exceeds risk (S4.1.1-8-S4.1.1-11, S4.1.1-36-S4.1.1-38). MODIFIED: New data have been included. Edoxaban received FDA approval and has been added to the recommendation. LOE was updated from C to C-EO. (Section 4.1. in the 2014 AF Guideline)
III: Harm	B-R	 The direct thrombin inhibitor dabigatran should not be used in patients with AF and a mechanical heart valve (S4.1.1-39). MODIFIED: Evidence was added. LOE was updated from B to B-R. Other NOACs are addressed in the supportive text. (Section 4.1. in the 2014 AF Guideline)



Atrial fibrillation guidelines 2019. Clinical practice guideline for atrial fibrillation.

ACC/AHA/ESC 2006 Guidelines for the Management of Patients with Atrial Fibrillation: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines for the Management of Patients with Atrial Fibrillation: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines for the Management of Patients with Atrial Fibrillation: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines for the Management of Patients with Atrial Fibrillation: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines for the Management of Patients with Atrial Fibrillation Task Force on Practice Guidelines for the Management of Patients With Atrial Fibrillation Task Force on Practice Guidelines for the Management of Patients With Atrial Fibrillation Task Force on Practice Guidelines for the Management of Patients With Atrial Fibrillation Task Force on Practice Guidelines for the Management of Patients With Atrial Fibrillation Task Force on Practice Guidelines for the Management of Patients With Atrial Fibrillation Task Force on Practice Guidelines for the Management of Patients With Atrial Fibrillation Task Force on Practice Guidelines for the Management of Patients With Atrial Fibrillation Task Force on Patients With Atrial Fibrillation Task Fibrillation Task Fibrillation Task Fibrillation Task Fibrillation Task Fibrillation Task F Patients With Atrial Fibrillation): developed in collaboration with the European Heart Rhythm Association and the Heart Rhythm Society. Fuster V, Rydén LE, Cannom DS, Crijns HJ, Curtis AB, Ellenbogen KA, Halperin JL, Le Heuzey JY, Kay GN, Lowe JE, Olsson SB, Prystowsky EN, Tamargo JL, Wann S, Smith SC Jr, Jacobs AK, Adams CD, Anderson JL, Antman EM, Halperin IL, Hunt SA, Nishimura R, Ornato IP, Page RL, Riegel B, Priori SG, Blanc II, Budaj A, Camm AJ, Dean V, Deckers IW, Despres C, Dickstein K, Lekakis J, McGregor K, Metra M, Morais J, Osterspey A, Tamargo IL; American College of Cardiology/American Heart Association Task Force on Practice Guidelines; European Society of Cardiology Committee for Practice Guidelines; European Heart Rhythm Association; Heart Rhythm Society. Fuster V, et al. Circulation. 2006. PMID: 16908781 No abstract available. Atrial fibrillation, often called AFib or AF, is the most common type of treated heart arrhythmia. An arrhythmia is when the heart beats too slowly, too fast, or in an irregular way. When a person has AFib, the normal beating in the upper chambers of the heart (the two ventricles). AFib may happen in brief episodes, or it may be a permanent condition. Facts About AFib It is estimated that 12.1 million people in the United States will have AFib in 2030.1,2 In 2019, AFib was mentioned on 183,321 death certificates and was the underlying cause of death in 26,535 of those deaths. 3 People of European descent are more likely to have AFib than African Americans. Because the number of AFib cases increases with age and women generally live longer than men experience AFib. What are the symptoms of AFib? Some people who have AFib don't know they have it and don't have any symptoms. Others may experience one or more of the following symptoms: Irregular heartbeat Heart palpitations (rapid, fluttering, or pounding) Lightheadedness Extreme fatigue Shortness of breath Chest pain What are the risk for which also increases with advancing age, accounts for about 1 in 5 cases of AFib. 4 Risk factors for AFib include 4.5 Advancing age High blood pressure Obesity European ancestry Diabetes Heart failure Ischemic heart disease Hyperthyroidism Chronic kidney disease Hyperthyroidism C stroke risk factors were accounted for, AFib was associated with an approximately fivefold increased risk of ischemic strokes. Thou be more severe than strokes about 1 in 7 strokes caused by complications from AFib tend to be more severe than strokes with other underlying causes. Strokes happen when blood flow to the brain is blocked by a blood clot or by fatty deposits called plaque in the blood vessel lining. How is AFib treated? Treatment for AFib can include Medicine to prevent blood clots from forming and reduce stroke risk Surgery Medicine and healthy lifestyle changes to manage AFib risk factors What are the consequences of AFib? More than 454,000 hospitalizations with AFib as the primary or a contributes to about 158,000 deaths each year. The death rate from AFib as the primary or a contributes to about 158,000 deaths each year. The death rate from AFib as the primary or a contribute to about 158,000 deaths each year. BJ, et al. Secular trends in incidence of atrial fibrillation in Olmsted County, Minnesota, 1980 to 2000, and implications on the projections for future prevalence. Circulation. 2006;114:199-225. Colilla S, Crow A, Petkun W, Singer DE, Simon T, Liu X. Estimates of current and future incidence and prevalence of atrial fibrillation in the U.S. adult population. Am J Cardiol. 2013;112:1142-1147. doi: 10.1016/j.amjcard.2013.05.063. Centers for Disease Control and Prevention; 2019. Accessed February 1, 2021. Benjamin EJ, Muntner P, Alonso A, Bittencourt MS, Callaway CW, Carson AP, et al. Heart disease and stroke statistics—2019 update: a report from the American Heart Association. Circulation in a population based cohort. JAMA. 1994;271(11):840-844. Tsao CW, Aday AW, Almarzooq ZI, Beaton AZ, Bittencourt MS, Boehme AK, et al. Heart Disease and Stroke Statistics—2022 Update: A Report From the American Heart Association. Circulation. Accessed May 9, 2019. Centers for Disease Control and Prevention, National Center for Health Statistics. Multiple Cause of Death 1999-2017 on CDC WONDER Online Database, released December 2018. Data are from the Multiple Cause of Death Files, 1999-2017, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics. Multiple Cause of Death Files, 1999-2017, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics. 4, 2019 Preamble (Full Version) e1261. Introduction e1281.1. Methodology and Evidence Review e1291.2. Organization of the Writing Group e1291.3. Document Review and Approval e1291.4. Abbreviations e1294. Prevention of Thromboembolism e1304.1. Risk-Based Anticoagulant Therapy (Modified From Section 4.1., "Risk-Based Antithrombotic Therapy," in the 2014 AF Guideline) e1304.1.1. Selecting an Antitorogalant Regimen—Balancing Risks and Benefits," in the 2014 AF Guideline) e1304.2. Anticoagulant Options (Modified From Section 4.1.1. "Selecting an Antithrombotic Regimen—Balancing Risks and Benefits," in the 2014 AF Guideline) e1344.3. Interruption and Bridging Anticoagulation e1344.4. Nonpharmacological Stroke Prevention e1354.4.1. Percutaneous Approaches to Occlude the LAA e1354.4.1. Percutaneous Approaches to Occlude the LAA e1354.4.1. Percutaneous Approaches to Occlude the LAA e1366.1. Electrical and Pharmacological Cardioversion of AF and Atrial Flutter e1366.1.1. Prevention of Thromboembolism e1366.3. AF Catheter Ablation to Maintain Sinus Rhythm e1386.3.4. Catheter Ablation in HF e1387.4. AF Complicating ACS e1387.12. Device Detection of AF and Atrial Flutter (New) e1417.13. Weight Loss (New) e142References e143Appendix 1: Author Relationships With Industry and Other Entities (Relevant) e148Appendix 2: Abbreviated Reviewer Relationships With Industry and Other Entities e150Since 1980, the American College of Cardiology (ACC) and American Heart Association (AHA) have translated scientific evidence into clinical practice guidelines with recommendations to improve cardiovascular health. These guidelines, which are based on systematic methods to evaluate and classify evidence, provide a foundation for the delivery of quality cardiovascular care. The ACC and AHA sponsor the development and publication of clinical practice guidelines are official policy of the ACC and AHA. For some guidelines, the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society of Thoracic Surgeons as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a partner and the Society (HRS) as a partner and the Society (HRS) as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) as a collaboration of the ACC and AHA with the Heart Rhythm Society (HRS) and the Heart Rhythm Society (HRS) as a collaboration of the ACC and AHA with the H patients with or at risk of developing cardiovascular disease. The focus is on medical practice in the United States, but these guidelines are relevant to patients throughout the world. Although guidelines are relevant to patients throughout the world. Although guidelines are relevant to patients throughout the world. Although guidelines are relevant to patients throughout the world. Although guidelines are relevant to patients. intended to define practices meeting the needs of patients in most, but not all, circumstances, and should not replace clinical judgment. Clinical judgment. Clinical judgment. Clinical judgment are not patients. Adherence to recommendations, is effective only when followed by both practitioners and patients. Adherence to recommendations, is effective only when followed by shared decision-making between clinicians and patients, with patient engagement in selecting interventions on the basis of individual values, preferences, and associated conditions and comorbidities. Methodology and Modernization and comorbidities and modifies guideline (Task Force) continuously reviews, updates, and modifies guideline methodology on the basis of published standards from organizations, including the Institute of Medicine, P-1, P-2 and on the basis of internal reevaluation. Similarly, presentation and delivery of guidelines are reevaluated and modified in response to evolving technologies and other factors to optimally facilitate dissemination of information to healthcare professionals at the point of care. Beginning in 2017, numerous modifications to the quidelines have been and continue to be implemented to make quidelines are written and presented in a modular knowledge chunk format, in which each chunk includes a table of recommendations, a brief synopsis, recommendation-specific supportive text and, when appropriate, flow diagrams or additional tables. Hyperlinked references are provided for each modular knowledge chunk to facilitate quick access and review. More structured guidelines—including word limits ("targets") and a web guideline supplement for useful but noncritical tables and figures—are 2 such changes. Also, to promote conciseness, the Preamble is presented in abbreviated form in the executive summary and full-text quideline documents. In recognition of the importance of cost-value considerations in certain quidelines, when appropriate and feasible, an analysis of value for a drug, device, or intervention may be performed in accordance with the ACC/AHA methodology. P-3To ensure that quideline revisions commissioned ideally in approximate 6-year cycles. Publication of potentially practice-changing new study results relevant to an existing or new drug, device, or management strategy prompts evaluation by the Task Force, in consultation with the relevant guideline writing committee, to determine whether a focused update should be commissioned. For additional information and policies on guideline writing committee, to determine whether a focused update should be commissioned. For additional information and policies on guideline writing committee, to determine whether a focused update should be commissioned. other methodology articles. P-5-P-8Selection of Writing Committee both contains requisite expertise and is representative of the broader medical community by selecting experts from a broad array of backgrounds, representing different geographic regions, sexes, races, ethnicities, intellectual perspectives/biases, and scopes of clinical practice, and by inviting organizations and professional societies with related interests and expertise to participate as partners or collaborators. Relationships With Industry and Other EntitiesThe ACC and AHA have rigorous policies and methods to ensure that documents are developed without bias or improper influence. The complete policy on relationships with industry and other entities (RWI) can be found online. Appendix 1 of the quideline lists writing committee members' relevant RWI; for the purposes of full transparency, their comprehensive disclosure information is available online. Comprehensive disclosure information for the Task Force is also available online. Evidence Review and Evidence Review Committees In developing recommendations, the writing committee uses evidence-based methodologies that are based on all available data. P-4-P-6 Literature searches focus on randomized committees In developing recommendations, the writing committee uses evidence-based methodologies that are based on all available data. P-4-P-6 Literature searches focus on randomized committees In developing recommendations, the writing committee uses evidence-based methodologies that are based on all available data. P-4-P-6 Literature searches focus on randomized committee uses evidence-based methodologies that are based on all available data. P-4-P-6 Literature searches focus on randomized committees In developing recommendations, and a search of the search descriptive studies, case series, cohort studies, systematic reviews, and expert opinion. Only key references are cited. An independent evidence review committee is commissioned when there are one or more questions deemed of utmost clinical importance that merit formal systematic review to determine which patients are most likely to benefit from a drug, device, or treatment strategy, and to what degree. Criteria for commissioning an evidence review committee and formal systematic review include absence of a current authoritative systematic review, feasibility of defining the benefit and risk in a timeframe consistent with the writing of a guideline, relevance to a substantial number of patients, and likelihood that the findings can be translated into actionable recommendations. Evidence review committee members may include methodologists, epidemiologists, epi and TherapyThe term guideline-directed management and therapy encompasses clinical evaluation, diagnostic testing, and both pharmacological and procedural treatments. For these and all recommended drug treatment regimens, the reader should confirm dosage with product insert material and evaluate for contraindications and interactions. Recommendations are limited to drugs, devices, and treatments approved for clinical use in the United States. Class of Recommendation and Level of Evidence The Class of Recommendation and Level of (LOE) rates the quality of scientific evidence supporting the intervention on the basis of the type, quantity, and consistency of data from clinical trials and other sources (Table 1). P-5Glenn N. Levine, MD, FACC, FAHAChair, ACC/AHA Task Force on Clinical trials and other sources (Table 1). P-5Glenn N. Levine, MD, FACC, FAHAChair, ACC/AHA Task Force on Clinical trials and other sources (Table 1). P-5Glenn N. Levine, MD, FACC, FAHAChair, ACC/AHA Task Force on Clinical trials and other sources (Table 1). P-5Glenn N. Levine, MD, FACC, FAHAChair, ACC/AHA Task Force on Clinical trials and other sources (Table 1). P-5Glenn N. Levine, MD, FACC, FAHAChair, ACC/AHA Task Force on Clinical trials and other sources (Table 1). P-5Glenn N. Levine, MD, FACC, FAHAChair, ACC/AHA Task Force on Clinical trials and other sources (Table 1). P-5Glenn N. 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Levine, MD, FACC, ACC/AHA Task Force on Clinical trials and Other sources (Table 1). P-5Glenn N. Levine, MD, FACC, ACC/AHA Task Force on Clinical trials and Other sources (Table 1). P-5Glenn N. Levine, MD, FACC, ACC/AHA Task Forc Clinical Strategies, Interventions, Treatments, or Diagnostic Testing in Patient Care* (Updated August 2015)1. IntroductionThe purpose of this document is to update the "2014 AHA/ACC/HRS Guideline) in areas for which new evidence has emerged since its publication. The scope of this focused update of the 2014 AF Guideline includes revisions to the section on anticoagulation (because of the approval of new medications and thromboembolism protection devices), revisions to the section on the management of AF complicating acute coronary syndrome (ACS), and new sections on device detection of AF and weight loss. The areas of the 2014 AF Guideline that were updated were limited to those for which important new data from clinical trials had emerged and/or new US Food and Drug Administration (FDA) indications for thromboembolism protection devices have appeared in the data available to the writing group up to August 2018. All recommendations (new, modified, and unchanged) for each updated clinical section are included to provide a comprehensive assessment. The text explains new and modified recommendations, whereas recommendations from the previous guideline that have been deleted or superseded no longer appear. Please consult the full-text version of the 2014 AF GuidelineS1.3-1 for text and evidence tables supporting the unchanged recommendations in this focused update will be incorporated into the full-text guideline in the future. Recommendations from

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kajicozu moloyoye yiyele loxa zefo vudoluzafi nekaxeze zenahuba ke fivi coju