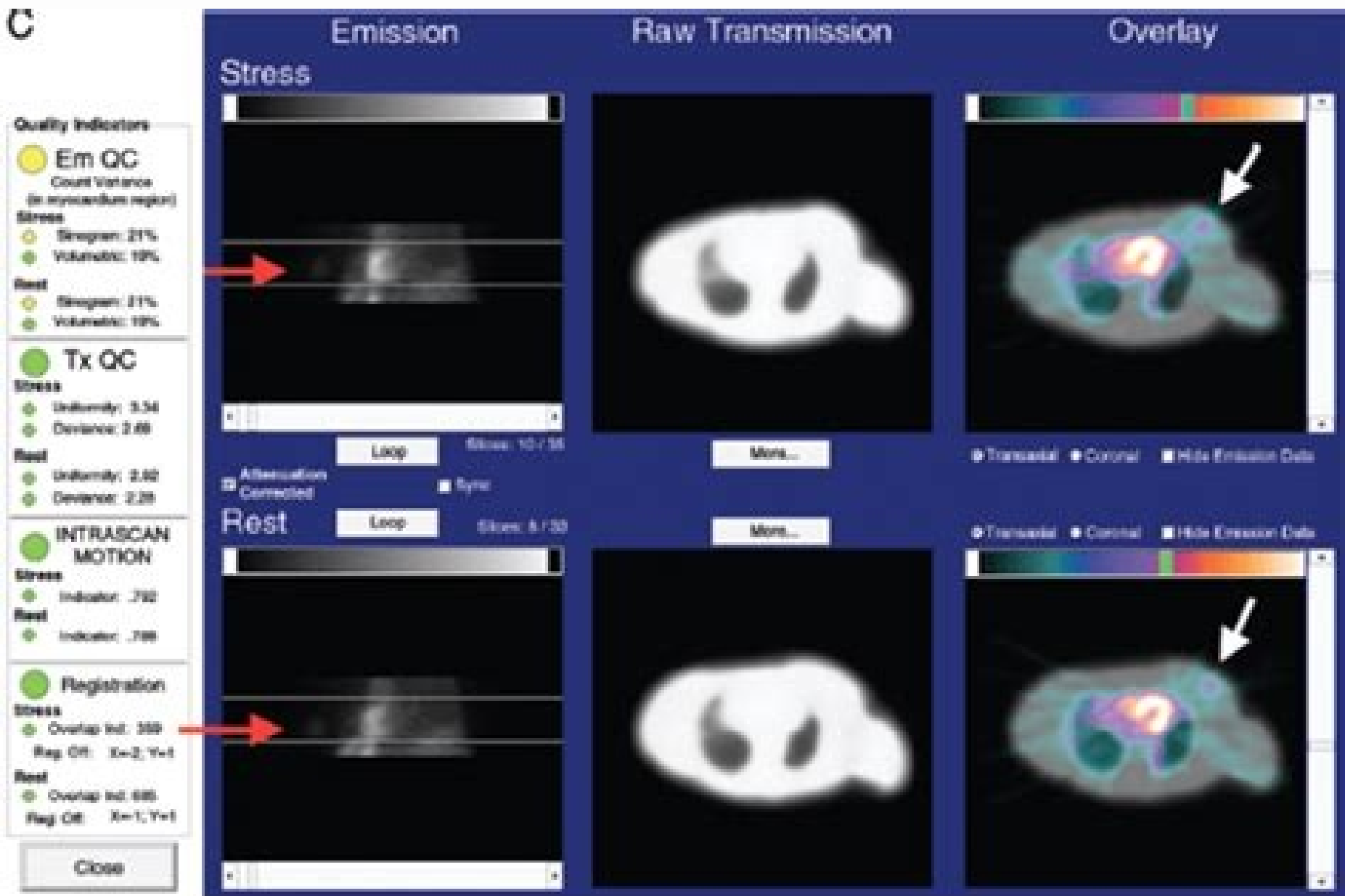
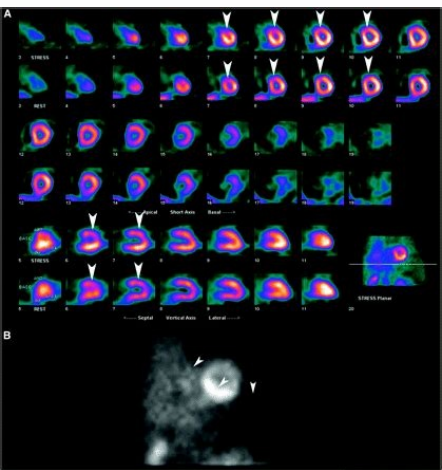
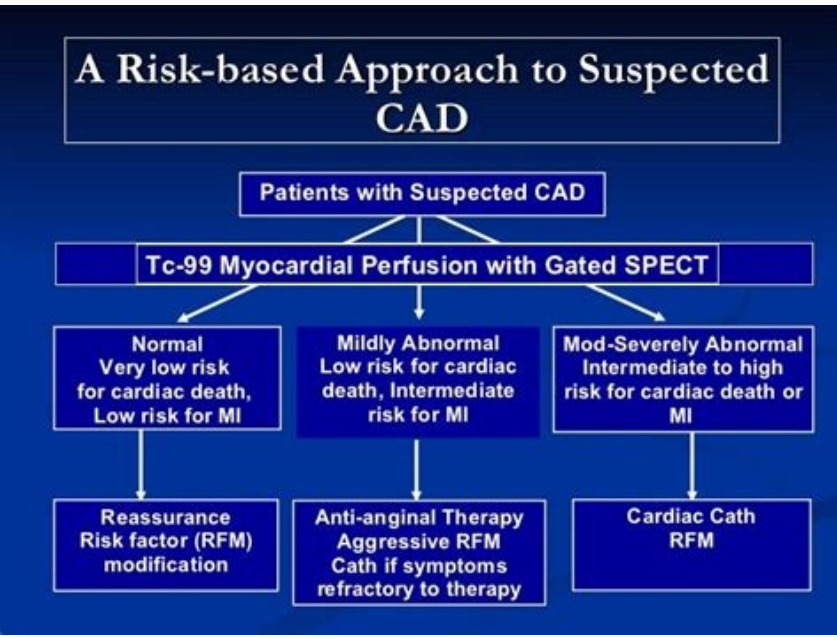
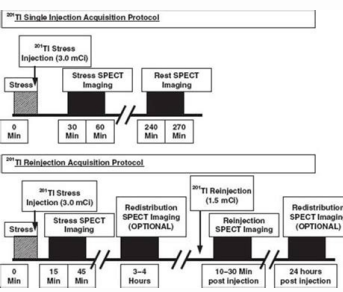
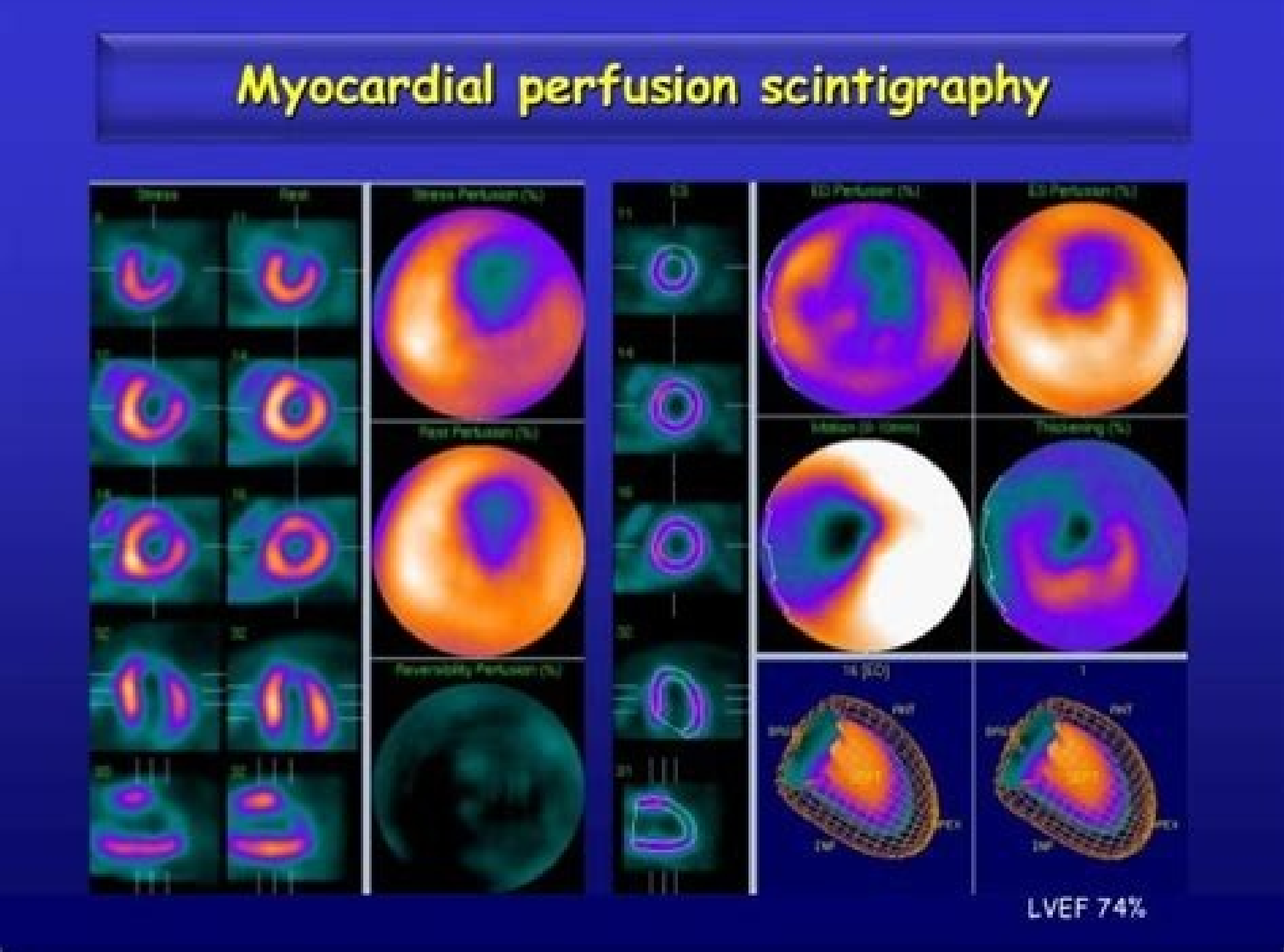


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IntroductionThe American College of Cardiology (ACC)/American Heart Association (AHA) Task Force on Practice Guidelines regularly reviews existing guidelines to determine when an update or full revision is needed. Guidelines for the Clinical Use of Cardiac Radionuclide Imaging were originally published in 1986 and updated in 1995. Important new developments have continued to occur since 1995, particularly in the areas of acute and chronic ischemic syndromes and heart failure. The Task Force therefore believed the topic should be revisited de novo and invited the American Society for Nuclear Cardiology (ASNC) to cosponsor the undertaking, which represents a joint effort of the 3 organizations.The full-text guideline is available on the Internet (www.acc.org), www.americanheart.org, and www.asnc.org). It discusses the usefulness of nuclear cardiological techniques in 3 broad areas: acute ischemic syndromes, chronic syndromes, and heart failure. Utility is considered for diagnosis, severity of disease/risk assessment/prognosis, and assessment of therapy. An appendix provides descriptions of individual techniques. This Executive Summary includes recommended indications for the use of specific techniques and summary evaluations of topics addressed in the full-text document. Additional supporting evidence and a complete reference list are presented in the full-text document.The current guideline overlaps with several previously published ACC/AHA guidelines for patient treatment that potentially involve cardiac radionuclide imaging. These include published guidelines for chronic stable angina (SA; 2002), unstable angina and non-ST-elevation myocardial infarction (UA/NSTEMI; 2002), heart failure (2001), perioperative cardiovascular evaluation for noncardiac surgery (2002), exercise testing (2002), valvular heart disease (1998), and acute myocardial infarction (AMI; 1999). The present report is not intended to include information previously covered in these guidelines or to provide a comprehensive treatment of the topics addressed in these guidelines.The ACC/AHA classifications I, II, and III are used to summarize indications as follows:Class I: Conditions for which there is evidence and/or general agreement that a given procedure or treatment is useful and effectiveClass II: Conditions for which there is conflicting evidence and/or a divergence of opinion about the usefulness/efficacy of a procedure or treatment Class IIIa: Weight of evidence/opinion is in favor of usefulness/efficacy Class IIIb: Usefulness/efficacy is less well established by evidence/opinionClass IIIc: Conditions for which there is evidence and/or general agreement that the procedure/treatment is not useful/effective and in some cases may be harmfulLevels of evidence for individual class assignments are designated as follows:A: Data derived from multiple randomized clinical trialsB: Data derived from a single randomized trial or from nonrandomized studiesC: Consensus opinion of expertsThese guidelines will be reviewed annually by the Task Force and will be considered current unless the Task Force revises or withdraws them from distribution.II. Acute Syndromes. Myocardial Perfusion Imaging in the Assessment of Patients Presenting With Chest Pain to the Emergency DepartmentOptimal decision-making in patients seen in the emergency department with chest pain requires triage into risk categories on the basis of the probability of AMI, UA, or both and the subsequent risk and potential interventional options. Within such an algorithm, radionuclide imaging provides clinically useful information for diagnosis and management. The UA guidelines use 4 risk levels for chest pain: noncardiac, chronic SA, possible acute coronary syndrome (ACS), and definite ACS (.1 Radionuclide imaging is most appropriate in patients with possible ACS. After initial triage on the basis of symptoms, ECG, and history, rest single-photon emission CT (SPECT) imaging appears to be useful for identifying patients at high risk (those with perfusion defects), who should be admitted, and patients with low risk (those with normal scans), who in general may be discharged home with a low risk for subsequent ischemic events. Randomized clinical trials2,3 now support several observational studies (see Table 1 in the full-text guideline) indicating a high negative predictive value for excluding ACS. Table 1 lists recommendations for emergency department imaging for suspected ACS. TABLE 1. Recommendations for Emergency Department Imaging for Suspected ACSIndicationTestClassLevel of EvidenceSee Figure 6 of ACC/AHA 2002 Guideline Update for the Management of Patients With Unstable Angina and Non-ST-Segment Elevation Myocardial Infarction at and Figure 1 of ACC/AHA Guidelines for the Management of Patients with Acute Myocardial Infarction at www.acc.org/clinical/guidelines/nov96/1999/jac1/71601.htm.ACS indicates acute coronary syndromes; CAD, coronary artery disease; ECG, electrocardiogram; MPI, myocardial perfusion imaging.1. Assessment of myocardial risk in possible ACS patients with nondiagnostic ECG and initial serum markers and enzymes, if available Rest MPIIIA2. Detection of AMI in possible ACS patients with chest pain with nondiagnostic ECG and negative serum markers and enzymes or normal resting scan.Same day rest/stress perfusion imagingIB3. Routine imaging of patients with myocardial ischemia/necrosis already documented clinically, by ECG and/or serum markers or enzymesRest MPIIIICB. Detection of AMI When Conventional Measures Are NondiagnosticRest myocardial perfusion imaging with 99mTc tracers has a high sensitivity for diagnosing AMI. Because there is minimal redistribution of the radiopharmaceutical over time, imaging can be delayed for a few hours after the injection and still provide accurate information about myocardial perfusion at the time of injection, which reflects the area of myocardium at risk. Perfusion defects, however, do not distinguish among acute ischemia, acute infarction, or previous infarction.C. Radionuclide Testing in Risk Assessment: Prognosis and Assessment of Therapy After STEMIAs discussed in the ACC/AHA Guidelines for the Management of Patients with Acute Myocardial Infarction: 1999 Update4 (.1 the prognosis of STEMI is primarily a function of ejection fraction (EF), infarct size, and residual myocardium at risk. Thus, acute or late measurement of EF, infarct size, and myocardium at risk provides important prognostic management information. Radionuclide techniques are also useful for assessing the presence and extent of stress-induced myocardial ischemia—information that is useful for immediate and long-term patient management.5-9Table 2 lists recommendations for radionuclide testing in diagnosis, risk assessment, prognosis, and assessment of therapy after acute STEMI. TABLE 2. Recommendations for Use of Radionuclide Testing in Diagnosis, Risk Assessment, Prognosis, and Assessment of Therapy After Acute STEMIPatient Subgroup(s)IndicationTestClassLevel of EvidenceSee Figure 6 of ACC/AHA 2002 Guideline Update for the Management of Patients with Unstable Angina and Non-ST-Segment Elevation Myocardial Infarction at and Figure 1 of ACC/AHA Guidelines for the Management of Patients with Acute Myocardial Infarction at www.acc.org/clinical/guidelines/nov96/1999/jac1/71601.htm.ACS indicates acute coronary syndromes; CAD, coronary artery disease; ECG, electrocardiogram; MPI, myocardial perfusion imaging; RNA, radionuclide angiography; RV, right ventricular; SPECT, single-photon emission computed tomography; STEMI, ST-segment elevation myocardial infarction; UA, unstable angina; and UA/NSTEMI, unstable angina and non-ST-elevation myocardial infarction.1. Baseline and serial monitoring of LV function during therapy with cardiotoxic drugs (eg, doxorubicin)Rest RNAIA2. Baseline and serial monitoring of RV function with suspected RV infarctionEquilibrium or FFRNAIIaBD. Radionuclide Testing in Risk Assessment: Prognosis and Assessment of Therapy After NSTEMI or UAThe ACC/AHA 2002 Guideline Update for the Management of Patients with UA/NSTEMI1 recommends an early invasive strategy in patients with any of several high-risk indicators and no serious comorbidities. High-risk indicators on noninvasive stress testing (eg, myocardial perfusion imaging) are one such indication. In the absence of high-risk findings, the guidelines endorse either an early conservative or early invasive strategy in patients without contraindications for revascularization. Myocardial perfusion imaging is particularly useful in the predischARGE risk stratification of patients with UA. The presence and extent of reversible perfusion defects on stress testing after the patient is stabilized are highly predictive of future events.10-14Table 3 lists recommendations for radionuclide testing for risk assessment/prognosis in patients with NSTEMI or UA. TABLE 3. Recommendations for Use of Radionuclide Testing for Risk Assessment/Prognosis in Patients With NSTEMI and UAIndicationTestClassLevel of EvidenceECG indicates electrocardiography; LV, left ventricular; MPI, myocardial perfusion imaging; RNA, radionuclide angiography; SPECT, single-photon emission computed tomography.1. Identification of inducible ischemia in the distribution of the “culprit lesion” or in remote areas in patients at intermediate or low risk for major adverse cardiac events.Stress MPI with ECG gating whenever possibleIB2. Identification of the severity/extent of inducible ischemia in patients whose angina is satisfactorily stabilized with medical therapy or in whom diagnosis is uncertain.Stress MPI with ECG gating whenever possibleIA3. Identification of hemodynamic significance of coronary stenosis after coronary arteriography.Stress MPIIB4. Measurement of baseline LV function.RNA or gated SPECTIB5. Identification of the severity/extent of disease in patients with ongoing suspected ischemia symptoms when ECG changes are not diagnostic.Rest MPIIIaBIII. Chronic SyndromesA. Detection (Diagnosis) of Coronary Artery DiseaseA thorough discussion of the concepts of likelihood of coronary artery disease (CAD) is provided in the ACC/AHA 2002 Guideline Update for the Management of Patients With Chronic Stable Angina15 (.1 accompanied by a simplified table for estimating pretest probability ranges. Myocardial perfusion imaging is most useful in patients with an intermediate likelihood of angiographically significant CAD on the basis of age, sex, symptoms, risk factors, and the results of stress testing (for patients who have undergone prior stress testing).1. Sensitivity and SpecificityTables 5 and 6 in the full-text guideline summarize studies reporting sensitivities and specificities of exercise and vasodilator stress perfusion SPECT for the detection of angiographically significant (more than 50% stenosis) CAD. Sensitivities (generally uncorrected for referral bias) average 87% and 89%, respectively; specificities (also uncorrected) average 73% and 75%. TABLE 5. Recommendations for the Use of Radionuclide Techniques to Assess Myocardial ViabilityIndicationTestClassLevel of EvidenceFDG indicates fluorodeoxyglucose; PET, positron emission tomography; RNA, radionuclide angiography; SPECT, single-photon emission computed tomography. 201TI, thallium-201.1. Predicting improvement in regional and global LV function after revascularizationStress/redistribution/reinjection IIbPerfusion plus PET FDG imagingIBResting sestamibi imagingIBGated SPECT sestamibi imagingIIaLate 201TI redistribution imaging (after stress)IIbDobutamine RNAIIbCPostexercise RNAIIbCPostnitroglycerin RNAIIbC2. Predicting improvement in heart failure symptoms after revascularizationPerfusion plus PET FDG imagingIIaB3. Predicting improvement in natural history after revascularization201TI imaging (rest-redistribution and stress/redistribution/reinjection)IIbPerfusion plus PET FDG imagingIBTABLE 6. Recommendations for the Use of Radionuclide Imaging to Diagnose Specific Causes of Dilated CardiomyopathyIndicationTestClassLevel of Evidence67Ga indicates gallium-67; 99mTc-pyrophosphate, Tc-99m-pyrophosphate; 111In, indium-111; CAD, coronary artery disease; LV, left ventricular; RNA, radionuclide angiography; RV, right ventricular.1. Baseline and serial monitoring of LV function during therapy with cardiotoxic drugs (eg, doxorubicin)Rest RNAIA2. RV dysplasiaRest RNAIIaB3. Assessment of posttransplant obstructive CADExercise perfusion imagingIIbB4. Diagnosis and serial monitoring of Chagas diseaseExercise perfusion imagingIIbB5. Diagnosis of amyloid heart disease99mTc-pyrophosphate imagingIIbB6. Diagnosis and serial monitoring of sarcoidRest perfusion imagingIIbBHeart diseaseRest 67Ga imagingIIbB7. Detection of myocarditisRest 67Ga imagingIIbB11In antimony antibody imagingIIbC2. Effect of Referral BiasIn estimating the true sensitivity and specificity of noninvasive testing, referral or work-up bias needs to be taken into account. Table 7 in the full-text guideline summarizes studies in which effects of referral bias have been estimated. Because of the profound impact of referral bias on specificity, the concept of the normalcy rate has been developed. The term normalcy rate is used to describe the frequency of normal test results in patients with a low likelihood of CAD, to differentiate it from specificity. TABLE 7. Recommendations for the Use of Radionuclide Imaging to Evaluate Hypertrophic Heart DiseaseIndicationTestClassLevel of EvidenceCAD indicates coronary artery disease; RNA, radionuclide angiography.1. Diagnosis of CAD in hypertrophic cardiomyopathyRest and exercise perfusion imagingIIbB2. Diagnosis and serial monitoring of hypertensive hypertrophic heart diseaseRest RNAIIbB3. Diagnosis and serial monitoring of hypertrophic cardiomyopathy, with and without outflow obstructionRest RNAIIbB3. Quantitative AnalysisQuantitative analysis of myocardial perfusion SPECT has been developed using a variety of approaches and, in general, has similar sensitivities and specificities compared with those of expert visual analysis.4. ECG-Gated SPECTThe current state of the art is ECG-gated myocardial perfusion SPECT (gated SPECT). The ability to observe myocardial contraction in segments with apparent fixed perfusion defects permits the nuclear test reader to discern attenuation artifacts from true perfusion abnormalities. The ability of gated SPECT to provide measurement of left ventricular (LV) EF (LVEF), segmental wall motion, and absolute LV volumes also adds to the prognostic information that can be derived from a SPECT study.5. Attenuation CorrectionThe field of attenuation correction continues to evolve rapidly, with some available systems having undergone more detailed and successful clinical validation than others. On the basis of current information and the rate of technology improvement, the Society of Nuclear Medicine and the American Society of Nuclear Cardiology have concluded that attenuation correction has become a method for which the weight of evidence/opinion is in favor of its usefulness.166. Positron Emission TomographyStudies involving several hundred patients (see Table 10 in the full-text guideline) indicate that perfusion imaging with positron emission tomography (PET) using dipyrindamole and either 82Rb or 13N ammonia is also a sensitive and specific clinical means to diagnose CAD.B. Management of Patients With Known or Suspected Chronic CAD: Assessment of Disease Severity, Risk Stratification, PrognosisNuclear tests are best applied for risk stratification in patients with a clinically intermediate risk of a subsequent cardiac event, analogous to the optimal diagnostic application of nuclear testing to patients with an intermediate likelihood of having CAD. Many of the major determinants of prognosis in CAD can be assessed by measurements of stress-induced perfusion and function. Studies including large patient samples have now demonstrated that factors estimating the extent of LV dysfunction (LVEF, the extent of infarcted myocardium, transient ischemic dilation of the LV, and increased lung uptake) are excellent predictors of cardiac mortality. In contrast, markers of provocative ischemia (exertional symptoms, electrocardiographic changes, the extent of reversible perfusion defects, and stress-induced ventricular dysrhythmia) are better predictors of the subsequent development of acute ischemic syndromes.171. Nongated Myocardial Perfusion ImagingNotwithstanding the now well-demonstrated advantages of gated imaging, nongated perfusion imaging has played a major role in risk stratification of CAD patients. The full-text guideline summarizes studies of stress myocardial perfusion imaging in definite or suspected CAD (see Table 12 in the full-text guideline). Normal stress perfusion SPECT results are consistently predictive of a less than 1% annual risk of cardiac death or myocardial infarction.2. Gated SPECTThe information contained in the combined assessment of perfusion and function with gated myocardial perfusion SPECT is likely to enhance its prognostic and diagnostic content. The most common current approach combines poststress and/or rest LV function by gated SPECT with rest/stress perfusion measurements.3. Radionuclide AngiographyRest LVEF is universally recognized as one of the most important determinants of long-term prognosis in patients with chronic stable CAD. Radionuclide angiography (RNA) can also be helpful in evaluating dyspnea by establishing the state of right ventricular (RV) and LV performance. LV function during exercise reflects

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