

**PRACTICE GUIDELINE**

## 2008 Focused Update Incorporated Into the ACC/AHA 2006 Guidelines for the Management of Patients With Valvular Heart Disease

A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Writing Committee to Revise the 1998 Guidelines for the Management of Patients With Valvular Heart Disease)

*Endorsed by the Society of Cardiovascular Anesthesiologists, Society for Cardiovascular Angiography and Interventions, and Society of Thoracic Surgeons*

**2006 Writing Committee Members**

Robert O. Bonow, MD, MACC, FAHA, *Chair*

Blase A. Carabello, MD, FACC, FAHA

Kanu Chatterjee, MB, FACC

Antonio C. de Leon, Jr, MD, FACC, FAHA

David P. Faxon, MD, FACC, FAHA

Michael D. Freed, MD, FACC, FAHA

William H. Gaasch, MD, FACC, FAHA

Bruce W. Lytle, MD, FACC

Rick A. Nishimura, MD, FACC, FAHA

Patrick T. O'Gara, MD, FACC, FAHA

Robert A. O'Rourke, MD, MACC, FAHA

Catherine M. Otto, MD, FACC, FAHA

Pravin M. Shah, MD, MACC, FAHA

Jack S. Shanewise, MD\*

\*Society of Cardiovascular Anesthesiologists Representative

**2008 Focused Update Writing Group Members**

Rick A. Nishimura, MD, FACC, FAHA, *Chair*

Blase A. Carabello, MD, FACC, FAHA

David P. Faxon, MD, FACC, FAHA

Michael D. Freed, MD, FACC, FAHA

Bruce W. Lytle, MD, FACC, FAHA

Patrick T. O'Gara, MD, FACC, FAHA

Robert A. O'Rourke, MD, FACC, FAHA

Pravin M. Shah, MD, MACC, FAHA

This document was approved by the American College of Cardiology Foundation Board of Trustees in May 2008 and by the American Heart Association Science Advisory and Coordinating Committee in May 2008.

The American College of Cardiology Foundation requests that this document be cited as follows: Bonow RO, Carabello BA, Chatterjee K, de Leon AC Jr., Faxon DP, Freed MD, Gaasch WH, Lytle BW, Nishimura RA, O'Gara PT, O'Rourke RA, Otto CM, Shah PM, Shanewise JS. 2008 focused update incorporated into the ACC/AHA 2006 guidelines for the management of patients with valvular heart disease: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Writing Committee to Develop Guidelines for the Management of Patients With Valvular Heart Disease. *J Am Coll Cardiol*

2008;52:e1-142.

This article is copublished in the September 23, 2008, issue of *Circulation*.

Copies: This document is available on the World Wide Web sites of the American College of Cardiology ([www.acc.org](http://www.acc.org)) and the American Heart Association ([www.my.americanheart.org](http://www.my.americanheart.org)). For copies of this document, please contact Elsevier Inc. Reprint Department, fax (212) 633-3820, e-mail [reprints@elsevier.com](mailto:reprints@elsevier.com).

Permissions: Modification, alteration, enhancement and/or distribution of this document are not permitted without the express permission of the American College of Cardiology Foundation or the American Heart Association. Please contact Elsevier's permission department at [healthpermissions@elsevier.com](mailto:healthpermissions@elsevier.com).

**Task  
Force  
Members**

Sidney C. Smith, JR, MD, FACC, FAHA, *Chair*  
Alice K. Jacobs, MD, FACC, FAHA, *Vice-Chair*

Christopher E. Buller, MD, FACC  
Mark A. Creager, MD, FACC, FAHA  
Steven M. Ettinger, MD, FACC  
David P. Faxon, MD, FACC, FAHA†  
Jonathan L. Halperin, MD, FACC, FAHA†  
Harlan M. Krumholz, MD, FACC, FAHA

Frederick G. Kushner, MD, FACC, FAHA  
Bruce W. Lytle, MD, FACC, FAHA†  
Rick A. Nishimura, MD, FACC, FAHA  
Richard L. Page, MD, FACC, FAHA  
Lynn G. Tarkington, RN  
Clyde W. Yancy, JR, MD, FACC, FAHA

†Former Task Force member during this writing effort

**TABLE OF CONTENTS**

<b>PREAMBLE (UPDATED)</b> .....	e5
<b>1. INTRODUCTION</b> .....	e6
<b>1.1. Evidence Review (UPDATED)</b> .....	e6
<b>1.2. Scope of the Document (UPDATED)</b> .....	e7
<b>1.3. Review and Approval (NEW)</b> .....	e8
<b>2. GENERAL PRINCIPLES</b> .....	e8
<b>2.1. Evaluation of the Patient With a Cardiac Murmur</b> .....	e8
<b>2.1.1. Introduction (UPDATED)</b> .....	e8
2.1.2. Classification of Murmurs .....	e8
2.1.2.1. DYNAMIC CARDIAC AUSCULTATION .....	e9
2.1.2.2. OTHER PHYSICAL FINDINGS .....	e9
2.1.2.3. ASSOCIATED SYMPTOMS .....	e10
2.1.3. Electrocardiography and Chest Roentgenography .....	e11
2.1.4. Echocardiography .....	e11
2.1.5. Cardiac Catheterization .....	e12
2.1.6. Exercise Testing .....	e12
2.1.7. Approach to the Patient .....	e12
<b>2.2. Valve Disease Severity Table</b> .....	e13
<b>2.3. Endocarditis and Rheumatic Fever Prophylaxis (UPDATED)</b> .....	e13
<b>2.3.1. Endocarditis Prophylaxis (UPDATED)</b> .....	e13
Table 5 (DELETED) .....	
Table 6 (UPDATED) .....	
Table 7 (UPDATED) .....	
Table 8 (DELETED) .....	
2.3.2. Rheumatic Fever Prophylaxis .....	e17
2.3.2.1. GENERAL CONSIDERATIONS .....	e17
2.3.2.2. PRIMARY PREVENTION .....	e17
2.3.2.3. SECONDARY PREVENTION .....	e17
<b>3. SPECIFIC VALVE LESIONS</b> .....	e18
<b>3.1. Aortic Stenosis</b> .....	e18
3.1.1. Introduction .....	e18
3.1.1.1. GRADING THE DEGREE OF STENOSIS .....	e18
3.1.2. Pathophysiology .....	e18
3.1.3. Natural History .....	e19
3.1.4. Management of the Asymptomatic Patient .....	e19

3.1.4.1. ECHOCARDIOGRAPHY (IMAGING, SPECTRAL, AND COLOR DOPPLER) IN AORTIC STENOSIS .....	e19
3.1.4.2. EXERCISE TESTING .....	e21
3.1.4.3. SERIAL EVALUATIONS .....	e21
<b>3.1.4.4. MEDICAL THERAPY (UPDATED)</b> .....	e21
3.1.4.5. PHYSICAL ACTIVITY AND EXERCISE .....	e22
3.1.5. Indications for Cardiac Catheterization .....	e22
3.1.6. Low-Flow/Low-Gradient Aortic Stenosis .....	e22
3.1.7. Indications for Aortic Valve Replacement .....	e23
3.1.7.1. SYMPTOMATIC PATIENTS .....	e23
3.1.7.2. ASYMPTOMATIC PATIENTS .....	e24
3.1.7.3. PATIENTS UNDERGOING CORONARY ARTERY BYPASS OR OTHER CARDIAC SURGERY .....	e25
3.1.8. Aortic Balloon Valvotomy .....	e25
3.1.9. Medical Therapy for the Inoperable Patient .....	e25
3.1.10. Evaluation After Aortic Valve Replacement .....	e26
3.1.11. Special Considerations in the Elderly .....	e26
<b>3.2. Aortic Regurgitation</b> .....	e26
3.2.1. Etiology .....	e26
3.2.2. Acute Aortic Regurgitation .....	e26
3.2.2.1. PATHOPHYSIOLOGY .....	e26
3.2.2.2. DIAGNOSIS .....	e27
3.2.2.3. TREATMENT .....	e27
3.2.3. Chronic Aortic Regurgitation .....	e27
3.2.3.1. PATHOPHYSIOLOGY .....	e27
3.2.3.2. NATURAL HISTORY .....	e29
3.2.3.2.1. ASYMPTOMATIC PATIENTS WITH NORMAL LEFT VENTRICULAR FUNCTION .....	e29
3.2.3.2.2. ASYMPTOMATIC PATIENTS WITH DEPRESSED SYSTOLIC FUNCTION .....	e30
3.2.3.2.3. SYMPTOMATIC PATIENTS .....	e30
3.2.3.3. DIAGNOSIS AND INITIAL EVALUATION .....	e30
3.2.3.4. MEDICAL THERAPY .....	e31
3.2.3.5. PHYSICAL ACTIVITY AND EXERCISE .....	e33
3.2.3.6. SERIAL TESTING .....	e33
3.2.3.7. INDICATIONS FOR CARDIAC CATHETERIZATION .....	e34
3.2.3.8. INDICATIONS FOR AORTIC VALVE REPLACEMENT OR AORTIC VALVE REPAIR .....	e35
3.2.3.8.1. SYMPTOMATIC PATIENTS WITH NORMAL LEFT VENTRICULAR SYSTOLIC FUNCTION .....	e35
3.2.3.8.2. SYMPTOMATIC PATIENTS WITH LEFT VENTRICULAR DYSFUNCTION .....	e35
3.2.3.8.3. ASYMPTOMATIC PATIENTS .....	e36
3.2.4. Concomitant Aortic Root Disease .....	e37
3.2.5. Evaluation of Patients After Aortic Valve Replacement .....	e37
3.2.6. Special Considerations in the Elderly .....	e38

Download English Version:

<https://daneshyari.com/en/article/2952670>

Download Persian Version:

<https://daneshyari.com/article/2952670>

[Daneshyari.com](https://daneshyari.com)