Valvular Heart Disease 2002
New Strategies for the Third Millennium

JUNE 6 - 8, 2002

Course Directors:
Maurice E. Sarano, M.D.
Thomas A. Orszulak, M.D.
Hartzell V. Schaff, M.D.
A. Jamil Tajik, M.D.

Mayo Clinic
Rochester, Minnesota USA
COURSE DESCRIPTION

Valvular Heart Disease: New Strategies for the Third Millennium will provide a comprehensive, state-of-the-art, panorama of the new pathophysiologic insights, diagnostic methods, surgical and medical therapeutic approaches for valvular heart diseases in this early 21st century and project the new strategies for the third millennium. Valvular heart disease is a major world-wide problem despite the decline of rheumatic heart disease due to the emergence of new causes of valve diseases and the expected aging of the population in the new millennium.

The course will be conducted by national and international, world-renowned experts in valvular heart diseases. The course will provide expert review of new types of surgical interventions of the latest progress in reparative techniques and of the new prostheses available. The alternative options of medical treatment with new and potent drugs and of percutaneous catheter-based interventions with newly developed devices will be discussed. The controversial issue of intervention in asymptomatic patients and the new insights in the selection process for this type of patients will be debated. The latest development in Doppler echocardiographic concepts and their application in clinical practice will be presented didactically. The daunting problem of left ventricular dysfunction due to valvular heart disease and its analysis from bench to bedside will be discussed.

Formal lectures, panel discussions, extensive case studies and accessible faculty members will facilitate the exchange of information during the course.

This course is designed for cardiologists, cardiac surgeons, internists, pathologists, cardiovascular fellows, nurses, and physician’s assistants with roles in the diagnosis, assessment, understanding, and management of valvular heart disease.

COURSE OBJECTIVES

At the conclusion of this course, the participants should be able to:

• Identify clinical tools to approach most complex and perplexing cases of valvular heart disease
• Recognize the features of all types of valvular heart disease
• Identify the clinical utility of emerging cardiovascular imaging modalities in valvular heart disease and apply them in their clinical utility
• Explain the optimal timing of surgery in asymptomatic patients and comprehend newly developed criteria
• Describe and treat complications of valvular heart disease
• Assess the optimal indications and appraise new methods of percutaneous interventions
• Recognize the advantages of new types of valvular prostheses

CREDIT

Mayo Foundation is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

Mayo Foundation designates this educational activity for a maximum of 19 credit hours in Category 1 of the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

LOCATION

Valvular Heart Disease: New Strategies for the Third Millennium will be held in Phillips Hall, First Floor of the Siebens Education Building on the campus of Mayo Clinic.
LODGING ACCOMMODATIONS

Special room rates have been obtained at the following hotels in downtown Rochester, Minnesota. Course registrants should make their own lodging reservations directly with the hotel prior to May 16, 2002. When making your reservations, please identify yourself as a participant in the Mayo Valvular Heart Meeting.

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<tr>
<th>Hotel</th>
<th>Rate</th>
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<tr>
<td>Rochester Marriott Hotel</td>
<td>$135</td>
<td>101 First Avenue SW</td>
<td>800-288-9290</td>
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<td>The Kahler Hotel</td>
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<td>Radisson Plaza Hotel</td>
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COURSE DIRECTORS

**Maurice E. Sarano, M.D.**  
Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine

**Thomas A. Orszulak, M.D.**  
Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Surgery

**Hartzell V. Schaff, M.D.**  
Stuart W. Harrington Professor of Surgery, Mayo Medical School; Consultant, Thoracic and Cardiovascular Surgery; Chair, Division of Cardiovascular Surgery

**A. Jamil Tajik, M.D.**  
Thomas J. Watson, Jr., Professor; Professor of Medicine and Pediatrics, Mayo Medical School; Chair, Division of Cardiovascular Diseases and Internal Medicine

GUEST FACULTY

**David H. Adams, M.D.**  
Professor and Chairman, Department of Cardiothoracic Surgery, Mount Sinai Hospital, New York, NY

**Alain Berrebi, M.D.**  
Cardiologist, Department of Cardiovascular Surgery, European Hospital of Paris, Paris, France

**Philipp Bouhassira, M.D.**  
Director, Cardiac Catheterization Laboratory, Great Ormond Street Hospital, London, United Kingdom

**Jeffrey S. Borer, M.D.**  
Gladys and Roland Harriman Professor of Cardiovascular Medicine; Chief, Division of Cardiovascular Pathophysiology; Director, The Howard Gilman Institute for Valvular Heart Diseases, Weill Medical College of Cornell University, Cornell Medical Center, New York, NY

**Blase A. Carabello, M.D.**  
Professor of Medicine and Vice Chairman, Department of Medicine, Baylor College of Medicine; Medical Care Line Executive, Houston Veterans Affairs Medical Center, Houston, TX

**Alain Carpentier, M.D., Ph.D.**  
Hopital European Georges Pompidou, Paris, France

**George T. Christakis, M.D.**  
Associate Professor, University of Toronto; Sunnybrook and Women’s College; Toronto, Ontario, Canada

**Martin E. Goldman, M.D.**  
Dr. Arthur and Hilda Master Professor of Medicine; Director, Echocardiography Laboratory, Zena and Michael Wiener Cardiovascular Institute, Mount Sinai School of Medicine, New York, NY

**Robert A. Levine, M.D.**  
Professor of Medicine, Harvard Medical School, Boston, MA

**Bruce W. Lytle, M.D.**  
Surgeon, Department of Thoracic and Cardiovascular Surgery, Cleveland Clinic Foundation, Cleveland, OH

**Mark F. O’Brien, M.D.**  
The Prince Charles Hospital, Brisbane, Australia

**Martin G. St. John Sutton, M.B.B.S.**  
Professor of Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA

**Alec Vahanian, M.D.**  
Professor of Cardiology, University Paris VII, Head of Department of Cardiology, Bichat Hospital, Paris, France
### MAYO FACULTY

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<tr>
<th>Name</th>
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<tr>
<td>Hari P. Chaliki, M.D.</td>
<td>Instructor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<tr>
<td>Krishnaswamy Chandrasekaran, M.D.</td>
<td>Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<tr>
<td>Richard C. Daly, M.D.</td>
<td>Associate Professor of Surgery, Mayo Medical School; Director, Cardiothoracic Transplant Program; Consultant, Division of Cardiovascular Surgery</td>
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<td>Joseph A. Dearani, M.D.</td>
<td>Assistant Professor of Surgery, Mayo Medical School; Consultant, Division of Cardiovascular Surgery</td>
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<td>Associate Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<td>Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<td>Assistant Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<td>Kyle W. Klarich, M.D.</td>
<td>Assistant Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<td>Youssef E. Malouf, M.D.</td>
<td>Associate Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<td>Robert D. McBane, M.D.</td>
<td>Assistant Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<td>Professor of Surgery, Mayo Medical School; Consultant, Division of Cardiovascular Surgery</td>
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<td>Fletcher A. Miller, Jr., M.D.</td>
<td>Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine; Co-Director, Cardiovascular Ultrasound Imaging and Hemodynamic Laboratory</td>
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<td>Charles J. Mullaney, M.D.</td>
<td>Professor of Surgery, Mayo Medical School; Consultant, Division of Cardiovascular Surgery</td>
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<td>Robin Patel, M.D.</td>
<td>Assistant Professor of Medicine, Mayo Medical School; Consultant, Division of Infectious Diseases</td>
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<td>Charanjit S. Rihal, M.D.</td>
<td>Associate Professor of Medicine, Mayo Medical School; Consultant, Division of Cardiovascular Diseases and Internal Medicine</td>
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<td>Thoralf M. Sundt, M.D.</td>
<td>Assistant Professor of Surgery, Mayo Medical School; Consultant, Division of Cardiovascular Surgery</td>
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<td>Stacey A. Vlahakis</td>
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Program

THURSDAY, JUNE 6, 2002

7:00 am Registration and Continental Breakfast

7:50 am Welcome and Course Description
Dr. A. Jamil Tajik, Dr. Thomas A. Orszulak,
Dr. Hartzell V. Schaff, Dr. Maurice E. Sarano

VHD: WHAT IS IN STORE FOR THE NEW MILLENNIUM?
Dr. Maurice E. Sarano, presiding

8:00 am Special Lecture: Mitral and Aortic Valve Surgery: New Approaches
Dr. Alain Carpentier

8:20 am From Hemodynamic Echocardiography to Real-Time 3-D Imaging:
The New Gold Standard
Dr. A. Jamil Tajik

8:40 am Preserving Left Ventricular Function in VHD: From Bench to Bedside
Dr. Blase A. Carabello

9:00 am Panel Discussion
Drs. Carpentier, Tajik, and Carabello; Dr. Sarano, moderator

9:30 am Refreshment Break and Visit Exhibits

MITRAL REGURGITATION: DIAGNOSIS AND MEDICAL MANAGEMENT
Dr. Hartzell V. Schaff, presiding

10:00 am PISA or Vena Contracta for Quantitation of MR: Principles and Practice
Dr. Robert A. Levine

10:20 am Natural History of Asymptomatic MR: Does it Justify Surgery or
Vasodilators?
Dr. Maurice E. Sarano

10:40 am Atrial Fibrillation Complicating Severe MR: How to Manage and Prevent?
Dr. Bernard J. Gersh

11:00 am Echocardiographic Segmentation and Prediction of Mitral Valve Repair:
The European Experience
Dr. Alain Berrebi

11:20 am Panel Discussion
Drs. Levine, Sarano, Gersh, and Berrebi; Dr. Schaff, moderator

11:50 am Lunch Break

MITRAL REGURGITATION: STATE-OF-THE-ART SURGICAL TREATMENT
Dr. A. Jamil Tajik, presiding

1:00 pm Valve Repair of Degenerative Lesions: Very Long Term Outcome
Dr. Alain Carpentier

1:20 pm Mitral Valve Repair: Contemporary Techniques and Management of
Patients With Atrial Fibrillation
Dr. Hartzell V. Schaff

1:40 pm The Complex Valve Repairs: Annular Decalcification and Repair for
Endocarditis
Dr. Bruce W. Lytle

2:00 pm MR With Poor LV Function: Effect of Mitral Repair With and Without
Ventriculoplasty
Dr. Richard C. Daly
ILLUSTRATIVE CASE STUDIES: PREOPERATIVE AND INTRAOPERATIVE TEE

2:20 pm
Dr. William K. Freeman
Distinguished panel: Drs. Schaff, Lytle, Daly, Carpentier, and Tajik

3:00 pm
Refreshment Break and Visit Exhibits

AORTIC STENOSIS
Dr. Maurice E. Sarano, presiding

3:30 pm
Calcific Aortic Stenosis: New Pathophysiologic Insights, New Medical Therapy
Dr. Martin E. Goldman

3:50 pm
Comprehensive Assessment of Severity of Aortic Stenosis: State-of-the-Art
Dr. Jae K. Oh

4:10 pm
Natural History and Progression of AS: New Insights
Dr. Patricia A. Pellikka

4:30 pm
AS with Low Gradient-Low Output: How to Determine Severity and Surgical Outcomes
Dr. Stuart T. Higano

4:50 pm
The Asymptomatic Severe AS: Candidates for Early Surgery?
Dr. A. Jamil Tajik

5:10 pm
Aortic Valve Replacement in the Elderly: Challenges and Indications
Dr. Charles J. Mullany

5:30 pm
Panel Discussion
Drs. Goldman, Oh, Pellikka, Higano, Tajik, and Mullany; Dr. Sarano, moderator

6:00 – 6:45 pm
Adjournment and Welcome Reception for faculty, participants, and guests

FRIDAY, JUNE 7, 2002

7:00 am
Continental Breakfast and Visit Exhibits

ISCHEMIC AND FUNCTIONAL MITRAL SURGERY: THE NEXT FRONTIER?
Dr. Hartzell V. Schaff, presiding

8:00 am
Ischemic MR in the Experimental Laboratory: New Insights
Dr. Robert A. Levine

8:20 am
Mechanism and Pathophysiology of Chronic Ischemic MR: New Insights from Quantitative Echocardiography
Dr. Maurice E. Sarano

8:40 am
Ischemic/Functional MR: Treatable by Synchronous Pacing?
Dr. Martin G. St. John Sutton

9:00 am
Surgical Treatment of Ischemic MR: CABG Alone or Surgical Repair?
Dr. David H. Adams

9:20 am
Surgical Treatment of Functional MR: Repair or Replacement?
Dr. Thoralf M. Sundt

9:40 am
Panel Discussion
Drs. Levine, Sarano, St. John Sutton, Adams, and Sundt; Dr. Schaff, moderator

10:10 am
Refreshment Break and Visit Exhibits
**INTERVENTIONAL TREATMENT OF VHD: NEW HOPES**  
*Dr. David R. Holmes, Jr., presiding*

10:40 am  Percutaneous Valve Replacement: Hype or Real Hope?  
*Dr. Philipp Bonhoeffer*

10:55 am  How to Obtain the Best Results of Percutaneous Valvuloplasty: Balloon vs. Blade  
*Dr. Alec Vahanian*

11:10 am  Is Balloon Valvuloplasty Indicated in Asymptomatic Patients with MS?  
*Dr. Charanjit S. Rihal*

**ILLUSTRATIVE CASE STUDIES: INTERVENTIONAL VALVE DISEASE**

11:25 am  
*Dr. David R. Holmes, Jr.*  
*Distinguished panel: Drs. Bonhoeffer, Vahanian, and Rihal*

12:00 pm  Lunch Break

**VALVULAR PROSTHESSES: NEW DEVELOPMENT**  
*Dr. Maurice E. Sarano, presiding*

1:00 pm  Special Problems of Prosthetic Valve Replacement in Children  
*Dr. Francisco J. Puga*

1:20 pm  New Stented Tissue Valves: The Preferred Choice?  
*Dr. Bruce W. Lytle*

1:40 pm  Tissue Engineering and New Developments in Biological Prostheses  
*Dr. Mark F. O’Brien*

2:00 pm  Stentless Prostheses: Are There Real Advantages?  
*Dr. George T. Christakis*

2:20 pm  Hemodynamic Assessment of Prostheses: From Regular Follow-Up to Reoperation for Obstructed Prostheses  
*Dr. Fletcher A. Miller, Jr.*

2:40 pm  Panel Discussion  
*Drs. Puga, Lytle, O’Brien, Christakis, and Miller; Dr. Sarano, moderator*

3:00 pm  Refreshment Break and Visit Exhibits

**AORTIC REGURGITATION AND AORTIC ROOT DISEASE**  
*Dr. A. Jamil Tajik, presiding*

3:30 pm  Quantitation of Aortic Regurgitation: New Methods  
*Dr. Maurice E. Sarano*

3:50 pm  Natural History of AR – Timing of Surgery in Asymptomatic Patients  
*Dr. Jeffrey S. Borer*

4:10 pm  Vasodilators in AR: For Whom and What Benefit?  
*Dr. Blase A. Carabello*

4:30 pm  AR With Severely Depressed LV Function: AVR or Transplantation?  
*Dr. Hari P. Chaliki*

4:50 pm  Surgical Management of Bicuspid Aortic Valve and Associated Aortic Enlargement  
*Dr. Hartzell V. Schaff*
5:10 pm  Annulo-Aortic Ectasia and Marfan’s: Current Management
   Dr. Mark F. O’Brien

5:30 pm  Panel Discussion
   Drs. Sarano, Borer, Carabello, Chaliki, Schaff, and O’Brien; Dr. Tajik, moderator

6:00 pm  Adjourn

6:00 – Buffet dinner for faculty, participants, and guests
7:00 pm  Marriott Ballroom

SUNDAY, JUNE 8, 2002

7:00 am  Continental Breakfast and Visit Exhibits

ILLUSTRATIVE CASE STUDIES: BACTERIAL ENDOCARDITIS
Distinguished Panel: Drs. Freeman, St. John Sutton, Carpentier, and Sundt

8:00 am  Topics:
   • The Duke Criteria: The New Role of TEE – Dr. K. Chandrasekaran
   • Vegetations: Does Size Matter – Dr. William K. Freeman
   • Prosthetic Endocarditis: When to Reoperate – Dr. Stacey A. Vlahakis
   • Perivalvular Abscesses: Diagnosis and Management – Dr. Youssef F. Malouf
   • Perivalvular Abscesses: Surgical Challenges – Dr. Charles J. Mullany
   • Acute Regurgitations: Management – Dr. Vuyisile T. Nkomo
   • Optimal Antibiotic Treatment: How Long? – Dr. Robin Patel
   • New Antibiotics – Dr. Robin Patel

ILLUSTRATIVE CASE STUDIES: POSTOPERATIVE COMPLICATIONS AND MANAGEMENT
Distinguished Panel: Drs. Sarano, Freeman, Lytle, and McGregor

9:00 am  • Non-Cardiac Surgery in Patients with Prostheses – Dr. Kyle W. Klarich
   • Pregnancy in Women with Prostheses – Dr. Kyle W. Klarich
   • Prosthetic Thrombosis – Dr. Jae K. Oh
   • Embolic Complications of Prostheses – Dr. Alec Vahanian
   • Optimal Anticoagulation – Dr. Alec Vahanian
   • New Monitoring Methods – Dr. Clarence Shub
   • New Antithrombotics – Dr. Robert D. McBane
   • Reoperations for Thrombosis: Particular Challenges – Dr. Thoralf M. Sundt

10:00 am  Refreshment Break and Visit Exhibits

ILLUSTRATIVE CASE STUDIES: UNUSUAL VHD
Distinguished Panel: Drs. Tajik, O’Brien, Borer, and Adams

10:30 am  • Tricuspid Surgery: New Advances – Dr. Joseph A. Dearani
   • Flail Tricuspid Leaflets – Dr. Maurice E. Sarano
   • Diet-Drugs and VHD – Dr. Patricia A. Pellikka
   • Carcinoid Heart Disease – Dr. Patricia A. Pellikka
   • Post-Radiation Heart Diseases – Dr. Christopher G. McGregor
   • Ergot Valve Disease – Dr. Margaret M. Redfield
   • Ochronosis – Dr. Charles J. Mullany
   • Lupus and Anticardiolipin VHD – Dr. Vuyisile T. Nkomo

11:45 pm  Adjournment and CME Credits
Valvular Heart Disease 2002: New Strategies for the Third Millennium

**JUNE 6-8, 2002**

Fax or Mail form and payment to:

Mayo Foundation
Attention: Deborah Feils
200 1st Street SW - PL722
Rochester, MN 55905

Telephone: 507-266-0677
Fax: 507-538-0146
E-mail: feils.deborah@mayo.edu

Please print or type all information. Duplicate this form for multiple registrations.

Name___________________________________________________________________________
M.D. [ ]    Ph.D. [ ]    R.D.C.S. [ ]    Other [ ]
Institution_______________________________________________________________________
Address_________________________________________________________________________
City_______________________________________________State________Zip______________
Telephone (_____) _______________________   FAX (_____) _________________________
E-mail__________________________________________________________________________

[ ] Check box if you have special accommodation needs. If so, please indicate your needs here:____________________________________________________________________________

Physician fee: $425
Sonographer/Fellow in training fee: $325
Total Amount Due: $ ______________

[ ] Check enclosed (payable to Mayo Foundation)

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**COURSE CANCELLATION POLICY**

If you are unable to attend this course and must cancel your registration, a refund of the tuition, less a $50 administrative fee, will be made when notification is received prior to May 20, 2002. No refunds will be made after May 20, 2002.

**REGISTRATION**

To register, please complete the attached registration form and return by mail or FAX. The registration fee includes tuition, course syllabus, evening receptions, daily continental breakfasts, refreshment breaks, and luncheons. **Registration is limited.**

Registration will be held **Wednesday, June 5, 2002** from 5:00-6:00 p.m. and **Thursday, June 6, 2002** at 7:00 a.m. in the Siebens Education Building, First floor.