

CURRICULUM VITAE

Revised 7/25/2008

Name: Girish S. Shirali, M.D.

Office Address: 165 Ashley Avenue, PO Box 250915, Charleston SC 29425.

Education:

Institution/Location	Years	Degree/Date	Field of Study
Seth G.S. Medical College, Bombay, India	1978-83	MBBS, 1984	Medicine

Residencies/ Fellowship:

1. Pediatrics, University of Bombay Affiliated Hospitals, Bombay, India: 1984-86.
2. Pediatrics, University of Texas Medical School, Houston, Texas: 1988-1991.
3. Pediatric Cardiology, Baylor College of Medicine, Houston, TX: 1991-1994.

Specialty/Board Certification:

American Board of Pediatrics, 1991 (recertified, 2000-6 and 2006-13)

American Board of Pediatrics, Sub-Board of Pediatric Cardiology, 1996-2003 (recertified, 2003-2010)

Faculty Appointments:

Years	Rank	Institution	Department
1994-1998	Assistant Professor	Loma Linda University, CA	Pediatrics
1998-1998	Associate Professor	Loma Linda University, CA	Pediatrics
1998-2001	Assistant Professor	MUSC, Charleston, SC	Pediatrics
2001-2006	Associate Professor	MUSC, Charleston, SC	Pediatrics
2001-2006	Associate Professor	MUSC, Charleston, SC	Obstetrics, Gynecology
2007-present	Professor (Tenured)	MUSC, Charleston, SC	Pediatrics
2007-present	Professor (Tenured)	MUSC, Charleston, SC	Obstetrics, Gynecology

Administrative Appointments:

1997-1998 Clinical Director, Echocardiography Laboratory, Loma Linda University Children's Hospital, Loma Linda, CA.

1998-present Director, Pediatric Echocardiography, Medical University of South Carolina, Charleston, SC.

2004-present Director, Pediatric Cardiology Fellowship Training, Medical University of South Carolina, Charleston, SC.

Hospital Appointments/Privileges:

1994-1999 Loma Linda University Medical Center and Children's Hospital, Loma Linda CA.

1994-1999 Riverside General Hospital, Moreno Valley, CA.

1998-present MUSC Medical Center, Charleston SC.

2000-2003 Self Memorial Hospital, Greenwood, SC.

2001-present McLeod Regional Medical Center, Florence, SC.

2001-2004 Conway Regional Medical Center, Conway, SC.

2002-2004 Greenville Hospital System, Greenville, SC.

Society Memberships

1. American Heart Association, Council on Cardiovascular Disease in the Young, 1993 - present.
2. American Society of Echocardiography, 1993 - present.
3. Society of Pediatric Echocardiography, 1993 - present.
4. Member, Society of Pediatric Research, 2001 (elected).
5. Fellow, American College of Cardiology, 2002 (elected).
6. Fellow, American Academy of Pediatrics, 2002.
7. Secretary, Society of Pediatric Echocardiography, 2003 - 2005 (elected).
8. Member, American College of Cardiology Section on Congenital Heart Disease and Pediatric Cardiology, 2005 - present.

Editorial Positions

1. Editor, Pediatric Cardiology web site, American College of Cardiology, 2002 - present.
2. Reviewer for:
 1. American Heart Journal: 1999 - present.
 2. Circulation: 2001 - present.

3. Pediatric Cardiology: 2001 - present
 4. American Journal of Cardiology: 2001 - present.
 5. Cardiology in the Young: 2001 - present.
 6. Echocardiography: 2003 - present.
 7. Journal of the American College of Cardiology: 2003 - present.
3. Editorial Board, Cardiology in the Young, 2003 - present.
 4. Editorial Board, Pediatric Ultrasound Today, 2003.
 5. Editor, Pediatric Ultrasound Today, 2004 - present.
 6. Editorial Board, Congenital Cardiology Today, 2005 - present.

Extramural Grants

1. Co-investigator: Telemedicine Deployment Research Testbed program, US Department of Health and Human Services, HRSA Office for the Advancement of Telehealth, subcontracted to the Center for Healthcare Research, MUSC, 2000-2001 (10% salary support).
2. Co-investigator: Enhanced state-based birth defect surveillance and use of surveillance data. Department of Health and Human Services, SC Department of Disabilities and Special Needs, subcontracted to MUSC Pediatric Cardiology, 2003-2005 (4% salary support).
3. Co-investigator: Pediatric Heart Disease Clinical Research Network. National Heart, Lung and Blood Institute. The goal of this project is to evaluate novel treatment methods and management strategies to benefit children with structural congenital heart disease, inflammatory heart disease, heart muscle diseases, and arrhythmia. 2003 – 2006 (10% salary support).
4. Co-investigator: Fluid Diode in Pediatric Pulmonary Insufficiency. 2003-4 (3% salary support).
5. Co-investigator: Pediatric Heart Disease Clinical Research Network. National Heart, Lung and Blood Institute. The goal of this project is to evaluate novel treatment methods and management strategies to benefit children with structural congenital heart disease, inflammatory heart disease, heart muscle diseases, and arrhythmia. 2006-2011 (10% salary support)

Intramural Grants

1. Pediatric Research Fund, Loma Linda University. \$6794 for equipment and salary assistance for a part-time research associate - February 1995.
2. Employee Contribution Committee, Loma Linda University Medical Center and Children's Hospital. \$8,000 for statistical / epidemiologic support and equipment for ongoing research projects, August 1995.

Awards, Honors

1. National Merit Scholarship awarded by the Government of India for academic performance, 1976 and 1978.
2. Distinction (Highest Honors) in Pathology, Preventive/Social Medicine and Forensic Medicine, University of Bombay, 1981.
3. Walter E. Macpherson Society Student-Faculty Clinical Research Award for role as faculty mentor for medical student research, Loma Linda University School of Medicine, 1996.
4. Strathmore's Who's Who, 2002-3.
5. America's Top Pediatricians, 2002-3.
6. MUSC Pediatric Cardiology Ashby Taylor Memorial Teacher of the Year Award, 2005.
7. Best Doctors in America, 2005-current.

Committee Memberships (last 5 years)

1. Medical Record Retention and Destruction Committee, MUSC, 2002.
2. American Society of Echocardiography Pediatric Trans-thoracic Echocardiogram Writing Group, 2004 – 2006.
3. Ventricular Volume Variability Study Committee, Pediatric Heart Disease Clinical Research Network (NHLBI), 2004 – current.
4. Single Ventricle Reconstruction Study Echocardiography Subcommittee, Pediatric Heart Disease Clinical Research Network (NHLBI), 2004 – current.
5. Fontan Study Echocardiography Subcommittee, Pediatric Heart Disease Clinical Research Network (NHLBI), 2004 – current.
6. Member, American College of Cardiology Committee on Congenital Heart Disease and Pediatric Cardiology, 2004 – 7.
7. Member, American Society of Echocardiography Pediatric Council Board, 2004 – 6.
8. Chairman, American College of Cardiology Work Group on Congenital Heart Disease, 2005 –7.
9. Member, Physician Information Council, Medical University of South Carolina, 2005-6.
10. Member, American College of Cardiology Congenital Heart Disease and Pediatric Cardiology Planning Committee Nominating Work Group, 2005 – 7.
11. Member, American Society of Echocardiography Pediatric Council Board Task Force for Manpower and

Training, 2005 – 6.

12. Member, American College of Cardiology Training and Workforce Committee, 2006 – present.

13. Member, American College of Cardiology Cardiovascular Imaging Collaborative Committee, 2007 – present.

Major Teaching Responsibilities

Graduate Medical Education:

Primary teaching effort is directed towards pediatric cardiology fellows in training.

- Developed, published three CD-ROM's (1998 (2) and 2007 (1)) that teach fundamental pediatric cardiology concepts.
- Developed a curriculum in pediatric echocardiography, including informal case discussions and didactic lectures, and emphasizing interpretive/analytical as well as manual skills (1998-2003).
- Organized a lecture series on cardiac pathology and morphology as these relate to clinical cardiac imaging (1998-2003).
- Organized 6 annual symposia on echo-pathology correlations and implications for management (2000-2008).

Undergraduate, Graduate Studies Education:

- Lectures to Medical and Nurse Practitioner students, pediatric residents, cardiothoracic surgery residents as part of core curriculum in pediatric cardiology.

Continuing Medical Education:

- Obtained CME credit for twice-weekly Pediatric Cardiology-Cardiothoracic Surgery conference (2000).
- Reorganized Pediatric Cardiology-Cardiothoracic Surgery Conference schedule (2005): Didactic curriculum based on 2005 Consensus Recommendations from the American College of Cardiology. Teaching conferences now include Medical Conference, Mortality/Morbidity, Clinical Research Conference, Journal Club, Echocardiography Quality Assurance.
- Individually or jointly directed 28 workshops and conferences on Pediatric Cardiology and Echocardiography since 1999.

Major Clinical Interests and Responsibilities

1. MUSC Pediatric Echocardiography Laboratory (1998 – present):

- Contemporary equipment, digital laboratory (1998)
- Fetal cardiology, statewide fetal program (1999)
- Telemedicine (1999)
- Performance improvements, QA initiative (1999)
- Conscious sedation (1999)
- ICAEL accreditation (2001, 2004)
- 3D echocardiography
 - Clinical implementation (2003)
 - International leadership, workshops (2004)
 - Clinical research projects (2004)
- Digital laboratory integrated with 3D echocardiography (2006)

2. MUSC Pediatric Cardiology Fellowship Training (2004 – present)

- Successful internal GME review (2005)
- Successful ACGME Site Review (2008)

Invited Lectures

1. "Natural History of Ventricular Septal Defects". Grand Rounds at the Department of Pediatrics, Loma Linda University School of Medicine, Loma Linda, CA, September 30, 1994.
2. "Pediatric Cardiology - An Overview". Lecture to the community as part of "Take Heart '95: A Community Awareness Celebration for Heart Month - For Your Child's Heart" sponsored by Loma Linda University School of Medicine, Loma Linda, CA, February 9, 1995.
3. "Non-Invasive Diagnosis of Congenital Heart Disease". 63rd Annual Postgraduate Convention, Loma Linda University School of Medicine, Loma Linda, CA, March 5, 1995.
4. "Pulmonary Disease vs. Cardiac Disease". Lecture as part of "The Critically Ill Child Conference", San Bernardino, CA, April 13, 1995.

5. "Recent Advances in Pediatric Cardiac Noninvasive Imaging". Grand Rounds at the Department of Pediatrics, Loma Linda University School of Medicine, Loma Linda, CA, August 30, 1996.
6. Visiting Professor, The Lillie Frank Abercrombie Section of Pediatric Cardiology, Texas Children's Hospital, November 11-15, 1996 and December 16-20, 1996.
7. "Evaluation of Pediatric Heart Murmurs". Lecture at US Family Care, Temecula, CA, April 17, 1997.
8. "Selective Visual Region Of Interest To Enhance Medical Video Conferencing". Bonneau WC Jr, Read CJ, Shirali GS. Invited keynote address team presentation, Annual Meeting on Medical Imaging, International Society of Optical Engineers, San Diego, CA, February 1998.
9. "Tele-medicine and Tele-health". Division of Pediatric Cardiology, Medical University of South Carolina, Charleston, S.C., April 13, 1998.
10. "Tele-medicine and Tele-health: Program Expansion, Outreach and Education". Children's Hospital Medical Center, Seattle, WA, July 10, 1998.
11. "Murmurs in Children". Pediatric Grand Rounds at Roper Hospital, Charleston, S.C., October 22, 1998.
12. "Murmurs, Physical Examination and Diagnosis". Pediatric Cardiology Update for the Primary Care Physician at the Medical University of South Carolina, Charleston, SC, December 11-12, 1998.
13. "Tele-medicine Systems". Georgetown Community Hospital, Georgetown, SC, April 1999.
14. "Murmurs – Innocent Or Not So?" 2nd Annual Frontiers in Pediatrics, (CME Conference hosted by the Medical University of South Carolina), December 4, 1999.
15. "Case Presentations". 10th Charleston Symposium on Congenital Heart Disease. Charleston, SC, April 9, 2000.
16. "Murmurs – Innocent or not so?" 3rd Annual Frontiers in Pediatrics, (CME Conference hosted by the Medical University of South Carolina), December 2, 2000.
17. "Echocardiography And The Amplatzer ASD Occluder: The MUSC Experience". Lecture to the Lillie Frank Abercrombie Section of Pediatric Cardiology, Texas Children's Hospital / Baylor College of Medicine, Houston, TX, February 13, 2001.
18. "Life After Baylor". Discussion with Pediatric Cardiology Fellows, the Lillie Frank Abercrombie Section of Pediatric Cardiology, Texas Children's Hospital / Baylor College of Medicine, Houston, TX, February 12, 2001.
19. "Echocardiography And The Amplatzer ASD Occluder: The MUSC Experience". Lecture to the Division of Pediatric Cardiology, University of Florida – Jacksonville and Gainesville, FL, March 29, 2001.
20. "Murmurs – Innocent Or Not So?" Grand Rounds in Pediatrics, Roper Hospital, Charleston, SC, August 23, 2001.
21. "Does Prenatal Diagnosis Improve Survival For Infants Undergoing The Norwood Operation?" Southeast Regional Genetic Technologists and South Carolina Genetics Conclave, Charleston, SC, Sept 21, 2001.
22. "Echocardiography In Ventricular Septal Defects". Second Annual Charleston Embryology, Pathology and Echocardiography Conference, Charleston, SC, March 20, 2002.
23. "Echocardiography In Tetralogy Of Fallot". Second Annual Charleston Embryology, Pathology and Echocardiography Conference, Charleston, SC, March 20, 2002.
24. "Echocardiography Of Transposition Of The Great Arteries". Second Annual Charleston Embryology, Pathology and Echocardiography Conference, Charleston, SC, March 21, 2002.
25. "The Atrial Septum: New Interest In An Old Wall". Third Annual Symposium of the Cardiac Developmental Biology Center, Charleston, SC, March 23, 2002.
26. "The Pediatric Digital Divide: Continuous video recording is superior to video loops". As part of "Controversies in Pediatric Echo", 13th Annual Scientific Sessions of the American Society of Echocardiography, Orlando, FL, June 11, 2002.
27. "Echocardiographic Aspects Of Transcatheter Closure Of Interatrial Communications". Institute of Child Health and Great Ormond Street Hospital for Children, London, UK, July 26, 2002.
28. "Acquired Heart Disease in Childhood". Pediatrics Grand Rounds at Roper Hospital, Charleston, SC, October 31, 2002.
29. "Anatomic Considerations In Transposition Of The Great Arteries". Annual Meeting of the Pediatric Cardiology Society of India, February 28 – March 2, 2003, Bombay, India.
30. "Anatomic Considerations In Univentricular Heart". Annual Meeting of the Pediatric Cardiology Society of India,

February 28 – March 2, 2003, Bombay, India.

31. "Outcome Following Prenatal Identification Of The Norwood Candidate: The South Carolina Experience". Institute of Child Health and Great Ormond Street Hospital, London, UK, March 5, 2003.
32. "Echocardiography In Systemic And Pulmonary Venous Anomalies". Third Annual Charleston Mini-Symposium on Congenital Heart Disease, March 18-20, 2003, Charleston, SC.
33. "Echocardiography In Ventricular Septal Defects". Third Annual Charleston Mini-Symposium on Congenital Heart Disease, March 18-20, 2003, Charleston, SC.
34. "Outcome Following Prenatal Identification Of The Norwood Candidate: The South Carolina Experience". Children's Hospital of San Diego, San Diego, CA, June 10, 2003.
35. "Assessment Of The Candidate Donor Heart". 14th Annual Scientific Sessions of the American Society of Echocardiography, Las Vegas, NV, June 13, 2003.
36. "Introduction To 3D Echocardiography". Cardiovascular-Thoracic Grand Rounds, Sentara Hospital, Norfolk, VA, September 16, 2003.
37. "3D Echocardiography Of The Congenitally Bicuspid Aortic Valve". 22nd Southern Biomedical Engineering Conference and Symposium on Aortic Valve Sparing Surgery, Charlotte, NC, September 30, 2003.
38. "Live 3D: Beyond Theory To Clinical Practice". Panel discussion, 7th World Congress of Echocardiography and Vascular Ultrasound, Buenos Aires, Argentina, October 10, 2003.
39. "3D Echocardiography In Congenital Heart Disease". 7th World Congress of Echocardiography and Vascular Ultrasound, Buenos Aires, Argentina, October 11, 2003.
40. "Implications And Limitations Of An Abnormal Fetal Echocardiogram". 7th World Congress of Echocardiography and Vascular Ultrasound, Buenos Aires, Argentina, October 11, 2003.
41. "The Segmental Approach To Congenital Scanning". Congenital Scanning for the Adult and Pediatric Cardiac Sonographer, Charleston, SC, October 17, 2003.
42. 'Pulmonary Valve Disease'. Congenital Scanning for the Adult and Pediatric Cardiac Sonographer, Charleston, SC, October 17, 2003.
43. "Live 3D Echocardiography In Clinical Practice". Bi-Annual Meeting of the Society of Pediatric Echocardiography, Orlando, FL, November 9, 2003.
44. "3D Echocardiography In Congenital Heart Disease" as part of 'Live 3D Echo: Study with the Masters', Charleston, SC, November 15, 2003.
45. "3D Echocardiography: Optimizing The Study" as part of 'Live 3D Echo: Study with the Masters', Charleston, SC, November 15, 2003.
46. "Murmurs: Correlating What You Hear With What We See". Annual Frontiers in Pediatrics, (CME Conference hosted by the Medical University of South Carolina), December 6, 2003.
47. "3D Echocardiography: Clinical Applications". Cardiovascular Revascularization Therapy 2004, Washington, D.C., May 5, 2004.
48. "3D Echocardiography Tips and Tricks: The East Coast View". Live 3D Echo: Applications in Congenital Heart Disease, San Diego, CA, June 26, 2004.
49. "Pulmonary Arterial and Venous Anomalies: Is Everyone a Fontan Candidate?" 15th Annual Scientific Sessions, American Society of Echocardiography, San Diego, CA, June 29, 2004.
50. "Anatomic Considerations in I-TGA". Annual Meeting of the Pediatric Cardiology Society of India, Bangalore, India, August 28, 2004.
51. "Anatomic Considerations in Double Outlet Right Ventricle". Annual Meeting of the Pediatric Cardiology Society of India, Bangalore, India, August 28, 2004.
52. "3D Echocardiography in Congenital Heart Disease". August 30, 2004, Frontier Lifeline International Center for Cardiothoracic and Vascular Diseases, Madras, India.
53. "Atrioventricular Septal Defect: 3D Echocardiographic Evaluation". Morphology and Imaging Correlation Symposium, Southeastern Pediatric Cardiology Society Meeting, September 9, 2004.
54. "Current / Future Role of 3D Echocardiography in the Evaluation and Management of Congenital Heart Disease". Morphology and Imaging Correlation Symposium, Southeastern Pediatric Cardiology Society Meeting, September 9, 2004.

55. "Three Dimensional Echocardiography". Congenital Cardiovascular Surgery Symposium, San Diego, CA, October 15-16, 2004.
56. "Introduction to 3D Echocardiography" as part of 'Live 3D Echocardiography: Study with the Masters', Charleston, SC, October 23, 2004.
57. "Optimizing The Study" as part of 'Live 3D Echocardiography: Study with the Masters', Charleston, SC, October 23, 2004.
58. "Three Dimensional Echocardiographic Imaging of Atrial and Ventricular Septal Defects." Frontiers in Pediatrics, Charleston, SC, December 4, 2004.
59. "Three Dimensional Echocardiography in Congenital Heart Disease". Great Ormond Street Hospital, London, UK, January 14, 2005.
60. "Three Dimensional Echocardiography: Morphing". Workshop on 3D Echocardiography, All Children's Hospital, St. Petersburg, FL, February 10, 2005.
61. "Three Dimensional Echocardiography". Grand Rounds at All Children's Hospital, St. Petersburg, FL, February 10, 2005.
62. "Three Dimensional Echocardiography Will Replace Two Dimensional Echocardiography Within the Decade." Cardiology 2005: Eighth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 16, 2005.
63. "Echocardiographic Evaluation of Atrioventricular Septal Defect". Fourth Charleston Echocardiography-Embryology-Pathology MiniSymposium on Congenital Heart Disease, Charleston, SC, February 25, 2005.
64. "Echocardiographic Evaluation of Hypoplastic Left Heart". Fourth Charleston Echocardiography-Embryology-Pathology MiniSymposium on Congenital Heart Disease, Charleston, SC, February 26, 2005.
65. "Echocardiographic Evaluation of Transposition of the Great Arteries". Fourth Charleston Echocardiography-Embryology-Pathology MiniSymposium on Congenital Heart Disease, Charleston, SC, February 27, 2005.
66. "Current Status of Diagnosis and Treatment of Congenital Heart Disease in the USA". International Symposium on Congenital Heart Diseases and Echocardiography, Beijing, China, June 3, 2005.
67. "Postoperative Evaluation of Congenital Heart Diseases". International Symposium on Congenital Heart Diseases and Echocardiography, Beijing, China, June 5, 2005.
68. "Role of 3D Echocardiography in Congenital Heart Disease". 16th Annual Scientific Sessions of the American Society of Echocardiography, Boston, MA, June 15, 2005.
69. "3-Dimensional Echocardiography Will Replace 2-Dimensional Echocardiography As A Major Imaging Modality by 2010". As part of "Controversies in Pediatric Echo", 16th Annual Scientific Sessions of the American Society of Echocardiography, Boston, MA, June 17, 2005.
70. "Three Dimensional Echocardiography". Grand Rounds, Department of Adult Cardiology, Medical University of South Carolina, Charleston, SC, October 13, 2005.
71. "A Cyanotic Marine In Iraq". 15th Annual International Conference on Echocardiography: Case Studies And Recent Advances, Dallas, TX, November 12, 2005.
72. "How to Integrate Three Dimensional Echocardiography Into Everyday Clinical Practice", Annual Scientific Sessions, American Heart Association, Dallas, TX, November 14, 2005.
73. Visiting Professor, Department of Pediatric Cardiology, Columbia University, New York, NY, January 6-7, 2006.
74. "Three Dimensional Echocardiography in Congenital Heart Disease". Grand Rounds, Pediatric Cardiology, Columbia University Babies and Children's Hospital, New York, NY, January 6, 2006.
75. Visiting Professor, Departments of Perinatology and Fetal Cardiology, Hamad Hospital, Doha, Qatar, January 28-30, 2006.
76. "Fetal Cardiology: Program Development, Clinical Outcomes and Research". Lecture to Departments of Perinatology and Pediatric Cardiology, Hamad Hospital, Doha, Qatar, January 29, 2006.
77. Invited Faculty, Two-Day Workshop on Fetal Echocardiography, Hamad Hospital, Doha, Qatar, January 28-29, 2006.
78. "Three-Dimensional Imaging of the Ventricular Septum". Cardiology 2006: Ninth Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 11, 2006.
79. "How to Bring Three Dimensional Technology Into Your Echocardiography Laboratory". Cardiology 2006: Ninth Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 11, 2006.

80. "3D Imaging: Creating The Pictures". Annual Scientific Sessions, American College of Cardiology, Atlanta, GA, March 14, 2006.
81. Visiting Professor, Royal Melbourne Children's Hospital, Melbourne, Australia, April 24, 2006.
82. "3D Echocardiography in Pediatrics". Royal Melbourne Children's Hospital, Melbourne, Australia, April 24, 2006.
83. Visiting Professor, Great Ormond Street Hospital, London, UK, May 23-24, 2006.
84. "3D Echocardiography of The Ventricular Septum: New Perspectives". Great Ormond Street Hospital, London, UK, May 23, 2006.
85. "Assessing Ventricular Function". Annual Meeting of the European Association of Pediatric Cardiology, Basel, Switzerland, May 25, 2006.
86. "How To Set Up A Pediatric 3D Echocardiography Laboratory". Annual Meeting of the American Society of Echocardiography, Baltimore, MD, June 5, 2006.
87. "3D Echocardiography in Adults With Congenital Heart Disease". Capital Area Echo Society, Bethesda, MD, September 14, 2006.
88. "3D Echocardiography in Congenital Heart Disease". Children's Hospital of Philadelphia, Philadelphia, PA, September 15, 2006.
89. "3D Echocardiography in Adults with Congenital Heart Disease". 13th Annual Joint Meeting, South Carolina and North Carolina Chapters, American College of Cardiology, Kiawah Island, SC, October 7, 2006.
90. "3D Echocardiography in Congenital Heart Disease". Mayo Clinic, Rochester, MN, December 28, 2006.
91. "3D Echocardiography of the Ventricular Septum". Pre-Conference Seminar 'In Depth Review of Cardiac Anatomy', Cardiology 2007, Orlando, FL, February 21, 2007.
92. "3D Echocardiography of Inlet Abnormalities". Pre-Conference Seminar 'In Depth Review of Cardiac Anatomy', Cardiology 2007, Orlando, FL, February 21, 2007.
93. "Image is Everything". Cardiology 2007, Tenth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 21, 2007.
94. "The Clinician Educator". Career Planning for Trainees and Junior Faculty. Cardiology 2007, Tenth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 22, 2007.
95. "3D Echocardiography in Atrioventricular Septal Defect". Cardiology 2007, Tenth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 24, 2007.
96. "A Statewide Coordinated Program for Fetal Cardiology: Experiences from South Carolina." Cardiology 2007, Tenth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 24, 2007.
97. "The Clinician Educator". Building a Successful Academic Career. Annual Scientific Sessions, American College of Cardiology, New Orleans, LA, March 26, 2007.
98. "3D Echocardiography in Congenital Heart Disease". Annual Scientific Sessions, American College of Cardiology, New Orleans, LA, March 27, 2007.
99. "3D Echocardiographic Imaging of the Atrioventricular Valves". 15th Charleston Symposium on Congenital Heart Disease, Charleston, SC, May 2, 2007.
100. "3D Echocardiographic Imaging of the Outflow Tracts". 15th Charleston Symposium on Congenital Heart Disease, Charleston, SC, May 3, 2007.
101. "3D Echocardiographic Imaging of the Ventricular Septum". 15th Charleston Symposium on Congenital Heart Disease, Charleston, SC, May 4, 2007.
102. "Imaging The Heart: Future Directions in Echocardiography". 15th Charleston Symposium on Congenital Heart Disease, Charleston, SC, May 4, 2007.
103. "Echocardiography in Septal Defects". 16th Annual Symposium on Adults With Congenital Heart Defects, Philadelphia, PA, May 28, 2007.
104. "3D Echocardiography in Conotruncal Malformations". 16th International Parma Echo Meeting, Parma, Italy, June 27-29, 2007.
105. "3D Echocardiography in AV Canal Defects". 16th International Parma Echo Meeting, Parma, Italy, June 27-29, 2007.
106. "3D Echocardiography in Septal Defects". 16th International Parma Echo Meeting, Parma, Italy, June 27-29,

2007.

107. "Echocardiographic Assessment of the Right Ventricle and Right Ventricular Outflow Tract". Pediatric Interventional Cardiology Symposium, Las Vegas, NV, July 25, 2007.
108. "3D Echocardiographic Assessment of Atrial Septal Defects: Does it Really Help?" Pediatric Interventional Cardiology Symposium, Las Vegas, NV, July 25, 2007.
109. "3D Echocardiography in Congenital Heart Disease". The Howard P. Gutgesell Echocardiography Symposium. Charlottesville, VA, September 20, 2007.
110. "Case Presentations". 17th Annual International Conference on Echocardiography and Allied Techniques: Case Studies and Recent Advances. Orlando, FL, November 3, 2007.
111. "How to use 3D Echocardiography in Clinical Practice". Annual Scientific Sessions, American Heart Association, Orlando, FL, November 5, 2007.
112. "Live 3D Echo in Congenital Heart Defects: New Views and a New Paradigm". EuroEcho 2007, Lisbon, Portugal, December 7, 2007.
113. "3D Echocardiography: Is it Worth The Cost in The Assessment of Congenital Heart Disease?" EuroEcho 2007, Lisbon, Portugal, December 8, 2007.
114. "3D Echocardiography in AV Septal Defect" as part of 'Image is Everything' preconference, Cardiology 2008, Eleventh Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 6, 2008.
115. "Postoperative 3D Echocardiography in AV Septal Defect" as part of 'Image is Everything' Preconference, Cardiology 2008, Eleventh Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 6, 2008.
116. "New Frontiers and Innovative Strategies for 3D Echocardiographic Imaging". Cardiology 2008, Eleventh Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 7, 2008.
117. "What the Echocardiographer Should Measure in Pediatric Heart Failure". Cardiology 2008, Eleventh Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 9, 2008.
118. "3D Echocardiography of the Aortic and Mitral Valves". 19th Annual Meeting of the Saudi Heart Association, Riyadh, Saudi Arabia, February 12, 2008.
119. "3D Echocardiography in Hypoplastic Left and Right Ventricles". 19th Annual Meeting of the Saudi Heart Association, Riyadh, Saudi Arabia, February 12, 2008.
120. "3D Echocardiography in Congenital Heart Disease", King Edward VII Memorial Hospital, Bombay, India, March 13, 2008.
121. "3D Echocardiography in Congenital Heart Disease", All India Institute of Medical Sciences, Delhi, India, March 16, 2008.
122. "New Concepts in the Echocardiographic Evaluation of Pediatric Heart Failure". The Scientific Basis of Heart Failure in Children Conference, hosted by the American Heart Association, Estes Park, Colorado, May 14, 2008.
123. "3D Echocardiography in Pediatrics". Annual Invited Lecture, New York Pediatric Echocardiography Society, New York, NY, May 19, 2008.
124. "3D Transesophageal Echocardiography in Congenital Heart Surgery". Annual Meeting of the American Society of Echocardiography, Toronto, Canada, June 8, 2008.
125. Applications of Novel Imaging Modalities in CHD: Panel Discussion. Annual Meeting of the American Society of Echocardiography, Toronto, Canada, June 8, 2008.
126. "3D Transesophageal Echocardiography in Congenital Heart Diseases". 17th International Parma Echo Meeting, Parma, Italy, June 27, 2008.
127. "3D Echocardiographic Quantitation in Congenital Heart Disease". 17th International Parma Echo Meeting, Parma, Italy, June 27, 2008.
128. "3D Echocardiography: Panel Discussion". 17th International Parma Echo Meeting, Parma, Italy, June 27, 2008.

Extramural Professional Activities

Organization of Conferences and Workshops

1. Director, First Annual Charleston Embryology, Pathology and Echocardiography Conference, December 1-2, 2000, Charleston, SC. Guest Faculty: Debra Kearney, MD, Assistant Professor of Pathology, Baylor College of Medicine, Houston, TX.
2. Director, Second Annual Charleston Embryology, Pathology and Echocardiography Conference, March 20-21, 2002, Charleston, SC. Guest Faculty: Professor Robert H. Anderson, Joseph Levy Professor of Cardiac Morphology, University College, London, UK.
3. Co-director, Third Annual Cardiovascular Developmental Biology Center meeting, March 22-23, 2002, Charleston, SC.
4. Director, Workshop on Echo-Pathology Correlations in Congenital Heart Defects (ASD, VSD, Tetralogy of Fallot, Segmental approach) as part of the Annual Meeting of the Pediatric Cardiology Society of India, February 28 – March 2, 2003, Bombay, India.
5. Director, Third Annual Charleston Mini-Symposium on Pediatric Cardiology, March 18-20, 2003, Charleston, SC. Guest Faculty: Professor Robert H. Anderson, University College, London, UK, Drs. Stephen Sanders and James Jagers, Duke University Medical Center, Durham, NC.
6. Co-director, Fourth Annual Cardiovascular Developmental Biology Center meeting, March 20-22, 2003, Charleston, SC.
7. Director, Workshop: “Congenital Scanning for the Adult and Pediatric Cardiac Sonographer”, October 17-18, 2003, Charleston, SC.
8. Director, Workshop: “Live 3D Echocardiography: Study with the Masters”, November 15, 2003, Charleston, SC.
9. Director, Workshop : “Live 3D Echocardiography: Study with the Masters”, October 23, 2004, Charleston, SC.
10. Director, Workshop on Basic Three Dimensional Echocardiography, Cardiology 2005: Eighth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 16-18, 2005.
11. Director, Workshop on Advanced Three Dimensional Echocardiography, Cardiology 2005: Eighth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 18, 2005.
12. Director, Fourth Charleston Mini-Symposium on Pediatric Cardiology, February 25-27, 2005, Charleston, SC. Guest Faculty: Professor Robert H. Anderson, University College, London, UK, Dr. Emile Bacha, Children’s Hospital, Boston, MA, Diane Spicer, University of Florida, Gainesville, FL.
13. Director, Workshop: “Live 3D Echocardiography for Congenital Heart Defects”, April 23, 2005, Charleston, SC.
14. Director, Workshop: “Crop Till You Drop: 3D Echocardiography in Adult Patients”, July 15-16, 2005, Orlando Regional Medical Center, FL.
15. Director, Workshop: “Live 3D Echocardiography for Congenital Heart Defects”, January 7, 2006, Columbia University, New York, NY, January 7, 2006.
16. Director, Hands-on Workshop on Three-Dimensional Echocardiography, Hamad Hospital, Doha, Qatar, January 30, 2006.
17. Director, Workshop: “Cardiac Anatomy: Any Way You Slice It: Past, Present and Futuristic Imaging of the Atrioventricular Junctions and Outflow Tracts”. Cardiology 2006: Ninth Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 8, 2006.
18. Director, Hands-on Workshop on 3D Echocardiography, Cardiology 2006: Ninth Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 10, 2006.
19. Co-Director, Workshop: “Building a Successful Academic Career”, American College of Cardiology Annual Scientific Sessions, Atlanta, GA, March 12, 2006.
20. Member, Organizing Committee, Cardiology 2007: Tenth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 21-25, 2007.
21. Co-Director, Workshop: “Building a Successful Academic Career”, American College of Cardiology Annual Scientific Sessions, New Orleans, LA, March 27, 2007.
22. Director, 15th Charleston Symposium on Congenital Heart Disease, Charleston, SC, May 2-4, 2007.
23. Member, Organizing Committee, Cardiology 2008. Eleventh Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 8-12, 2008.
24. Director, Workshop: “Image is Everything”. Cardiology 2008. Eleventh Annual Update on Pediatric

Cardiovascular Disease, Scottsdale, AZ, February 8-12, 2008.

25. Director, Workshop: "3D Echocardiography in Congenital Heart Disease", King Edward VII Memorial Hospital, Bombay, India, March 13, 2008.
26. Director, Workshop: "3D Echocardiography in Congenital Heart Disease", All India Institute of Medical Sciences, Delhi, India, March 16, 2008.
27. Director, 16th Charleston Symposium on Congenital Heart Disease, Charleston, SC, November 16-19, 2008.
28. Member, Organizing Committee, Cardiology 2008. Twelfth Annual Update on Pediatric Cardiovascular Disease, Nassau, Bahamas, February 4-8, 2009.

Session Moderator

1. Third Annual Charleston Mini-Symposium on Pediatric Cardiology, March 18-20, 2003, Charleston, SC.
2. Fourth Annual Cardiovascular Developmental Biology Center Meeting, March 20-22, 2003, Charleston, SC.
3. Abstract presentations (oral) at the 14th Annual Scientific Sessions of the American Society of Echocardiography, Las Vegas, NV, June 13, 2003.
4. Abstract presentations (oral) at the Annual Scientific Sessions, American Heart Association, New Orleans, LA, November 10, 2004.
5. 'Current Status and Future Directions in Pediatric Cardiovascular Imaging.' Cardiology 2005: Eighth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 17, 2005.
6. 'Blurring the Lines: From Echocardiography in the Cath Lab to Catheter Interventions in the Operating Room.' Cardiology 2005: Eighth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 18, 2005.
7. Fourth Annual Charleston Mini-Symposium on Pediatric Cardiology, February 25-27, 2005.
8. International Symposium on Congenital Heart Diseases and Echocardiography, Beijing, China, June 3, 2005.
9. Abstract presentations (oral) at the 16th Annual Scientific Sessions of the American Society of Echocardiography, Boston, MA, June 18, 2005.
10. Case presentations, 15th Annual International Conference on Echocardiography: Case Studies And Recent Advances, Dallas, TX, November 12, 2005.
11. Echocardiography in 2006, Cardiology 2006: Ninth Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 11, 2006.
12. Career Planning for Trainees and Junior Faculty. Cardiology 2007: Tenth Annual Update on Pediatric Cardiovascular Disease, Orlando, FL, February 22, 2007.
13. Opening Session, Charleston Symposium on Congenital Heart Disease, Charleston, SC, May 2, 2007.
14. Plenary Session: "You Heard It Here". Charleston Symposium on Congenital Heart Disease, Charleston, SC, May 4, 2007.
15. "Functional Assessment and Imaging of the Postoperative Pediatric / Adult Congenital Heart Disease Patient". Annual Scientific Sessions, American Society of Echocardiography, Seattle WA, June 16, 2007.
16. "Career Planning for Trainees and Junior Faculty. Cardiology 2008: 11th Annual Update on Pediatric Cardiovascular Disease, Scottsdale, AZ, February 9, 2008.

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3. **Shirali GS**, Smith EO, Geva T. Quantitation of echocardiographic predictors of outcome in infants with isolated ventricular septal defect. Am Heart J 1995;130:1228-1235.
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 7. Brown VE[#], De Lange M, Dyar DA, Impastato LW, **Shirali GS**. Echocardiographic spectrum of supracardiac total anomalous pulmonary venous connection. *J Am Soc Echocardiogr* 1998;11:289-293.
 8. **Shirali GS**, Cephus C, Kuhn MA, Ogata K, Vander Dussen L, Dyar D and the Loma Linda Transplant Team. Post-transplant recoarctation of the aorta: a twelve-year experience. *J Am Coll Cardiol* 1998;32:509-514.
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 11. Fountain-Dommer RR⁺, Wiles HB, Shuler CO, Bradley SM, **Shirali GS**. Recognition of left atrial aneurysm by fetal echocardiography. *Circulation* 2000;102:2282-2283.
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 16. Juraszek AL⁺, Atz AM, **Shirali GS**. Echocardiographic diagnosis of partial obstruction of Blalock-Taussig shunts. *Cardiol Young* 2002;12(2):189-191.
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 20. Graham E⁺, Bradley SM, **Shirali GS**, Hills CB, Atz AM. Effectiveness of cardiac surgery in trisomy 13 and 18: a 18-year multicenter experience. *Am J Cardiol* 2004;93:801-803.
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3. **Shirali GS**. Early Experience With A Miniaturized Three Dimensional Matrix Transducer In Children. *Congenital Cardiology Today*, January 2007.

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53. Graham EM, Atz AM, Bradley SM, Scheurer MA⁺, Bandisode VM, Laudito A, **Shirali GS**. Right ventricle to pulmonary artery shunt versus modified Blalock-Taussig shunt in hypoplastic left heart syndrome: Assessment and outcome through Stage 2 palliation. Annual Meeting of the American College of Cardiology, Atlanta, GA, March 2006. J Am Coll Cardiol 2006;47(4):238A.
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62. Baker GH⁺, **Shirali GS**, Bandisode VM. Real-Time Three-Dimensional Transesophageal Echocardiographic Guidance of Complex Post-Myocardial Infarction Ventricular Septal Defects. Pediatric Interventional Cardiology Symposium, Las Vegas, NV, July 22-25, 2007.
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65. Zybelski S⁺, **Shirali GS**, Forbus GF, Atz AM, Hill B, Hlavacek AM. Risk Factors for Preoperative Death in Neonates With Prenatally Diagnosed Congenital Heart Defects. Annual Meeting of the American College of Cardiology, March 2008, Chicago, IL. J Am Coll Cardiol 2008.
66. Baker GH⁺, Ringewald JR, **Shirali GS**, Bandisode VM, McQuinn T. Novel Method of Pressure: Volume Loop Analysis by Three-Dimensional Echocardiography in Congenital Heart Disease. Annual Meeting of the American College of Cardiology, March 2008, Chicago, IL. J Am Coll Cardiol 2008.

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Community Service

1. Resident Liaison, Indian Doctors Club, Houston, Texas, 1991-3.
2. Member, Executive Committee, India Association of Greater Charleston, SC, 2000-2.
3. Secretary, India Association of Greater Charleston, SC, 2003-4.
4. Member, Organizing Committee, St Luke's Day, MUSC, Charleston, SC, 2004-5.