

**CURRICULUM VITAE**

**NAME:** John W. Mack Jr., M.D., F.A.C.S.  
Chief, Division of Cardiothoracic Surgery

**BIRTHDATE:** December 14, 1944

**BIRTHPLACE:** Woodbury, New Jersey

**EDUCATION:**

**Undergraduate:** Hampden-Sydney College  
Hampden-Sydney, Virginia  
1964 - 1968  
B.S. - June 1968

**Medical School:** Medical College of Virginia  
Richmond, Virginia  
1968 - 1972  
Doctor of Medicine, June 1972

**Internship:** Straight Surgery  
David Grant USAF Medical Center  
Travis Air Force Base, California  
1972 - 1973

**Residency:** General Surgery  
David Grant USAF Medical Center  
Travis Air Force Base, California  
1973 - 1977

Thoracic Surgery  
Letterman Army Medical Center  
San Francisco, California  
1977 - 1979

Thoracic Surgery  
University of California Medical Center  
San Francisco, California  
1979 - 1980

**MILITARY SERVICE:**

United States Air Force  
1971 - 1983  
Active Duty, Internship and Residencies

United States Air Force  
1983 - 1984  
Active Reserve

United States Air Force  
1984 - 1998  
Inactive Reserve, Colonel

**BOARD**

**CERTIFICATION:**

National Board of Medical Examiners, 1972  
American Board of Surgery, 1978  
American Board of Thoracic Surgery, 1980  
*Recertifications in 1990 and 2000*

**MEDICAL LICENSURE:**

State of Tennessee, MD 16544, 1985, Active

**PROFESSIONAL**

**SOCIETIES:**

American College of Surgeons  
Southern Thoracic Surgery Association  
The Society of Thoracic Surgeons

**UNIVERSITY**

**APPOINTMENTS:**

Chief, Division of Cardiothoracic Surgery  
University of Tennessee Medical Center  
Department of Surgery-Division of Cardiothoracic Surgery  
Knoxville, Tennessee  
1998 - Present

Associate Professor  
University of Tennessee Medical Center  
Department of Surgery-Division of Cardiothoracic Surgery  
Knoxville, Tennessee  
1994 - present

Clinical Associate Professor  
University of Tennessee Medical Center  
Department of Surgery-Division of Cardiothoracic Surgery  
Knoxville, Tennessee  
1985 - 1994

Clinical Associate Professor  
University of Texas Health Science Center at San Antonio  
Cardiothoracic Surgery  
Knoxville, Tennessee  
1984 - 1985

Assistant Professor of Surgery  
University of Texas Health Science Center at San Antonio  
San Antonio, Texas  
1983 - 1984

Clinical Assistant Professor  
University of Texas Health Science Center at San Antonio  
Cardiothoracic Surgery  
San Antonio, Texas  
1982 - 1983

Clinical Instructor  
University of California  
Dept. of Surgery - School of Medicine  
San Francisco, California  
1979 - 1980

**HOSPITAL**  
**APPOINTMENTS:**

University of Tennessee Medical Center  
Knoxville, Tennessee  
Active, 1985 - present

Ft. Sanders Regional Medical Center  
Knoxville, Tennessee  
Courtesy, 1989 -2004

East Tennessee Children's Hospital  
Knoxville, Tennessee  
Courtesy, 1989 - present

St. Mary's Medical Center  
Knoxville, Tennessee  
Active, 1985 - 2004  
Active (Provisional) 1983 - 1985

Methodist Hospital  
San Antonio, Texas  
Active (Provisional), 1983 - 1985

Humana Metropolitan Hospital  
San Antonio, Texas  
Active (Provisional) 1983 - 1985

Humana Hospital San Antonio  
San Antonio, Texas  
Active (Provisional), 1983 - 1985

Baptist Medical Center  
San Antonio, Texas  
Active (Provisional), 1983 - 1985

Audie Murphy Veteran's Administration Hospital  
San Antonio, Texas  
Active Staff, 1983 - 1985

Medical Center Hospital  
San Antonio, Texas  
Active Staff, 1983 - 1985

Chief of Surgery  
11<sup>th</sup> USAF Contingency Hospital (AFRES)  
Lackland Air Force Base  
San Antonio, Texas  
1983 - 1984

Staff Surgery  
Department of Cardiothoracic Surgery  
Wilford Hall USAF Medical Center  
Lackland Air Force Base  
San Antonio, Texas  
1980 - 1983

**PROFESSIONAL  
EXPERIENCE:**

Cardiothoracic Surgeon  
University Heart Surgeons PLLC  
Knoxville, Tennessee  
1985 - present

Cardiothoracic Surgeon  
Cardiothoracic Surgical Associates  
San Antonio, Texas  
September 1984 - August 1985

**TEACHING**  
**EXPERIENCE:**

1. Current status of congenital heart surgery, Surgical Ground Rounds, University of Texas Health Science Center at San Antonio, Texas, September 23, 1983.
2. Current surgical treatment for congenital heart defects, Surgical Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, October 21, 1984.
3. Current status of surgery in treating congenital heart disease, Pediatric Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, September 14, 1986.
4. Coronary artery bypass surgery, Coronary Care Class, University of Tennessee Medical Center at Knoxville, Tennessee, October 23, 1986.
5. Operative palliation of congenital heart disease, Lecture, Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, March 7, 1991.
6. Operative palliation of congenital heart disease, Cardiology Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, October 2, 1991.
7. Surgical management of congenital heart disease, Anesthesiology Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, October 21, 1991.
8. Congenital heart disease, Surgery Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, February 17, 1994.
9. Atrial septal defects, Surgery Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, January 18, 1996.
10. Congenital heart defect shunts, Anesthesia Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, September 11, 1996.
11. Mediastinal tumors, Professorial Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, August 13, 1997.
12. Traumatic disruption of the thoracic aorta, Surgery Grand Rounds, University of Tennessee Medical Center at Knoxville, Tennessee, March 5, 1998.

13. Aortic dissections, Professorial Conference, University of Tennessee Medical Center at Knoxville, Tennessee, April 21, 1999.
14. Blunt cardiac injury, Professorial Conference, University of Tennessee Medical Center at Knoxville, Tennessee, December 16, 1999.

**VISITING PROFESSORSHIPS - INVITED LECTURES AND PRESENTATIONS:**

1. Indications for surgery in atherosclerotic coronary artery disease, Sid Peterson Hospital, Kerville, Texas, October 11, 1984.
2. Invited discussant of papers presented to The Association for Academic Surgery, San Antonio, Texas, November 2, 1984.
3. Current status of surgery for congenital heart disease, San Antonio Cardiology Society, December 13, 1984.
4. Surgery for congenital heart disease-overview, Cardiac Conference, University of Tennessee Medical Center at Knoxville, Tennessee, March 19, 1986.
5. Coronary artery disease, Loudon County Hospital, Loudon, Tennessee, April 18, 1986.
6. Aortic dissection, Cardiac Conference, University of Tennessee Medical Center at Knoxville, Tennessee, June 25, 1986.
7. Current statistics in surgical treatment of coronary artery disease, Lecture, Athens, Community Hospital, March 8, 1998.
8. Insertion of AICD, coronary artery bypass surgery and PTCA standby, Lecture, Laughlin Memorial Hospital, Greenville, Tennessee, January 28, 1989.
9. Pediatric chest trauma, East Tennessee Children's Hospital, Knoxville, Tennessee, April 16, 1989.
10. Operative palliation of congenital heart disease, Lecture, East Tennessee Children's Hospital, Knoxville, Tennessee, February 26, 1991.
11. Update-coronary artery bypass, Continuing Medical Education Series, St. Mary's Medical Center, Knoxville, Tennessee, November 26, 1992.
12. Controversies and realities in coronary artery bypass surgery, Lecture, The Hearty Knoxvillian, St. Mary's Medical Center, Knoxville, Tennessee, March 31, 1992.

13. Controversies and realities in coronary artery bypass surgery, St. Mary's Intensive Care Unit Nurses, St. Mary's Medical Center, Knoxville, Tennessee, June 1, 1992.
14. Congenital heart disease in adults, Cardiology conference, University of Tennessee Medical Center at Knoxville, Tennessee, March 29, 1995.
15. Advances in myocardial revascularization surgery, What's New in Cardiology, University of Tennessee Medical Center at Knoxville, Tennessee, November 15, 1996.
16. Transmyocardial laser revascularization, Cardiology on the Frontlines: State of the Heart III, University of Tennessee Graduate School of Medicine at Knoxville, Tennessee, November 6-7, 1998.
17. Introduction to congenital heart disease and surgical repair involving pulmonary problems following pediatric open heart surgery, Tennessee Society for Respiratory Care, Kingsport, Tennessee, April 25, 1999.
18. Cardiothoracic surgical procedures, Tennessee Health Information Management Association at Gatlinburg, Tennessee, June 2, 1999.
19. Transmyocardial laser revascularization, Cardiology on the Front Lines in 1999, University of Tennessee Graduate School of Medicine at Knoxville, Tennessee, September 24, 1999.
20. TMR Update, Cardiology on the Front Lines in 2000, University Graduate School of Medicine at Knoxville, Tennessee, September 22, 2000.
21. "Cell-Saver vs. Processed Pump Blood in CABG: Effects on Post-operative Transfusion and Cost-Effectiveness, Southeastern Surgical Congress Annual Meeting at New Orleans, Louisiana, February 2005.
22. "Initial Experience with Video Assisted Thoracoscopic Lobectomy", 2006 Annual Residents' Research Day, Department of Surgery, June 17, 2006, Knoxville, TN.

**BOOKS AND CHAPTERS:**

1. **Mack JR JW**, et al: Toe Tourniquet Syndrome, The Yearbook of Plastic and Reconstructive Surgery 1978, 147-149. Edited by McCoy FJ, Yearbook Medical Publishers, Inc.

2. **Christian CB, Mack JR JW, Wetstein L:** Current Status of Coronary Artery Bypass Grafting for Coronary Artery Atherosclerosis, *Surgery C1 North America*, 1985, 65: 509-526.
3. **Mack JR JW:** Mitral Valve Replacement in a Child Using the St. Jude Medical Valve, *Cardiac Valve Replacement: Current Status*, 1985, 141-144. Edited by Matloff JM, Martnus Nighoff Publishing, Boston, Massachusetts.
4. **Smith VC, Mack JR JW, Ehler WJ, Rodger JH:** Patch Aortoplasty Using Bovine Pericardium for Correction of the Aorta, *Surgical Research-Recent Developments*, 1985, 93-97. Edited by Hall CW, Pergamon Press, New York.
5. **Mack JR JW, Trinkle JK:** Thoracic Trauma, *Thoracic Surgery*, 1987, 8:1-34. Edited by Ellis JR FH, Practice of Surgery LTD, Thomaston, CT.
6. **Ehler WJ, Mack JR JW, Brown DL, Davis RF:** Peri-operative Procedures to Avoid Malignant Hyperthermia in the Pig During Surgical Process, *Surgical Research-Recent Developments*, 1985, 98-102. Edited by Hall CW, Pergamon Press, New York, NY.
7. **Babka RM, Mack JR JW, Elliott M:** Left Heart Bypass and Pregnancy. A Case Report. In *Proceeding of the American Academy of Cardiovascular Perfusion*, 1988, 172-74. Edited by Kurusy M. Universal Printing Co., Houston, Texas.

#### **PUBLICATIONS AND JOURNAL ARTICLES:**

1. Mack JR JW, Fry MB, McIntosh DA: Pulmonary Hypertension in Systemic Lupus Erythematosus, *NEJM* 1973, 289: 157-158.
2. Mack JR JW, Takamoto RM, Jones FR, Zick HR: Toe Tourniquet Syndrome, *W Jour Med* 1976, 125: 335-336.
3. Mack Jr JW, Heydorn WH, Pauling FW, Lindell ME: Postoperative Chylous Pseudocyst, *J Thor Cardio Surg* 1979, 77: 773-776.
4. Heydorn WH, Moores WY, Mack JR JW, Dimitsky WP: The Importance of Hyperkalemia in a Cold Perfusion Solution: A Correlative Study Examining Myocardial Function, Metabolism, Tissue Gases, and Substrates, *Ann of Thor Surg* 1979, 28: 281-289.
5. Roe JP, Mack JR JW, Shirley JA: Bilateral Pulmonary Sequestration, *J Thor Cardio Surg* 1980, 80: 8-11.

6. Ulliyot DJ, Roe BB, Fishman N, Mack JR JW, Turley K, Ebert PA: Open Mitral Commissurotomy: Late Follow-up of 108 Patients, *Amer J of Cardiology* 1981, 47: 425.
7. Mack JR JW, Matthews JM, Takamoto RM: Swallowed Endotracheal Tube: A Neonatal Emergency, *Military Med*, 1981, 146: 354-335.
8. Wilson JW, Mack JR JW, Turley K, Ebert PA: Persistent Right Pulmonary Artery Stenosis and Deformity After Correction of Waterston Anastomosis, *J Thor Cardio Surg* 1981, 82: 169-175.
9. Porter KK, Van Every MJ, Anthracite RF, Mack JR JW: Massive Hemoptysis in Cystic Fibrosis, *Arch Inter Med* 1982, 143: 287-290.
10. Mack JR JW, Christian CB, Barnes RP, Smith JM: Beddingfield GWL Cardiothoracic Surgery in the United States Air Force, 1981, *TX Med* 1983, 79: 60-61.
11. Porter DK, Van Every MJ, Mack JR JW: Emergency lobectomy for massive hemoptysis in cystic fibrosis, *J Cardio Surg* 1983, 86: 409-11.
12. Ackerman N, Kuehl T, Mack JR JW, Stoddard R, Minnick L, Yoder B, Bell R, Null D, Escobedo M, Robotham J, DeLemos R: Cardiovascular interactions with high frequency ventilation: observations in premature baboon with hyaline membrane disease and left to right ductal shunts, (Abs)., *Crit Care Med* 1984, 12: 338.
13. Ehler W, Mack JR JW, Brown D, Davis R: The porcine model for experimental open heart surgical procedures: avoidance of malignant hyperthermia, (Abs)., *Lab Animal Science* 1983, 33: 485.
14. Schwartz D, Livingston C, Tio F, Mack JR JW, Trinkle JK, Grover FL: Interpericardial diaphragmatic hernia after subxiphoid epicardial pacemaker insertion, *J Thor Cardio Surg* 1984, 88: 633-35.
15. Brown DL, Holubec DM, Towle DJ, Bodary AK, Patterson AR, Mack JR JW, Anesthetic management of thoracopagus twins undergoing cardioagus separation, *Anesthesiology* 1984, 62: 678-82.
16. Avery MD, Ybarra J, Estrello R, Norris S, Mack JR JW, Trinkle JK, Grover FL: Effects of varied cardioplegic perfusion pressure on myocardial preservation with critical coronary stenosis. *Ann Thor Surg* 1985, 40: 469-74.

17. Mack JR JW, Rogers J, Wheller J: Early total repair of tetralogy of fallot associated with complete atrioventricular canal. *J Cardio Surg* 1985, 26: 585-88.
18. Moores WY, Mack JR JW, Dembitsky WP, Heydorn WH, Daily PO: Quantitative evaluation of the myocardial preservative characteristics of nifedipine during hypothermic myocardial ischemia. *J Thor Cardio Surg* 1985, 90: 912-20.
19. Glatterer MS, Toon RS, Ellestad C, McFee AS, Rogers W, Mack JR JW, Trinkle JK, Grover FL: Management of blue and penetrating external esophageal trauma. *J of Trauma* 1985, 25: 784-92.
20. Mack JR JW, Smith VC, Ehler WJ, Rogers JH, Brown JR DL, Eason RL: Glutaraldehyde-fixed bovine pericardium for right ventricular outflow enlargement. *J Cardio Surg* 1989, 30: 774-78.
21. Mack JR JW: Current status of coronary artery bypass surgery: *St. Mary's Ctrs. MedBrief* 1994, 1<sup>st</sup> Qtr: 4-6.
22. Babka RM, Petress J, Briggs RM, Helsel RA, Mack JR JW: Conventional hemofiltration during routine coronary artery bypass surgery. *Perfusion* 1997, 12:187-92.

**ABSTRACTS PRESENTED AND PUBLISHED:**

1. Mack JR JW, McIntosh DA: Pulmonary hypertension in systemic lupus erythematosus. American College of Physicians, Las Vegas, NV, March 1974.
2. Mack JR JW: Toe tourniquet syndrome: The Society of Air Force Clinical Surgeons, Biloxi, MI, April 1976 (Outstanding Paper Award).
3. Smith VC, Mack JJR JW, Ehler W, Rogers J. P: Patch aortoplasty using bovine pericardium for the corrections of infantile coarctation of the aorta. Annual Symposium of Air Force Clinic Surgeons, Biloxi, MI, April 1976 (Outstanding Paper Award).
4. Mack JR JW: Active thoracic aortic dissection in a patient with an abdominal aortic aneurysm. Annual Symposium of The Society of Air Force Clinical Surgeons, San Antonio, TX, April 1977.
5. Moores WY, Heydorn WH, Mack JR JW, Dembitsky WP: Evaluation of myocardial performance and metabolism using a perfused working swine heart. Army Cardiology Meeting, Silver Springs, MD, May 1978.

6. Mack JR JW, Dembitsky WP, Moores WY, Heydorn WH, Caldwell MD: Quantitative evaluation of the myocardial preservative characteristics of nifedipine: a membrane stabilizer. Army Cardiology Meeting, Silver Springs, MD, May 1978.
7. Heydorn WH, Moores WY, Mack JR JW, Dembitsky WP: The importance of hyperkalemia in a cold perfusion solution: A correlative study examining myocardial function, metabolism, tissue gases and substrates, The Society of Thoracic Surgeons, Phoenix, AZ, January 1979.
8. Roe JP, Mack JR JW, Shirley JH: Bilateral intralobar pulmonary sequestration. A case report. Annual Symposium of Air Force Clinical Surgeons, San Antonio, TX, April 1979.
9. Mack JR JW, Heydorn WH, Pauling F, Lindell M: Postoperative chylous pseudocyst, Annual Symposium of Air Force Clinical Surgeons, San Antonio, TX, April 1979.
10. Ulliyot DJ, Roe RB, Fishman N, Mack JR JW, Turley K, Ebert PA: Open mitral commissurotomy: Late follow-up of 108 patients, American College of Cardiology, San Francisco, CA, March 1981.
11. Mack JR JW: Congenital heart disease on the adult population, WHMC experience. Annual Symposium of Air Force Clinical Surgeons, San Antonio, TX, April 1981.
12. Brown DM, Mack JR JW: The wilford hall experience with esophageal cancer. Annual Symposium of Air Force Clinical Surgeons, Sacramento, CA, March 1982.
13. Mack JR JW: Pitfalls in the repair of congenital heart defects. Annual Symposium of Air Force Clinical Surgeons, Sacramento, CA, March 1982.
14. Mack JR JW: Bovine pericardium of right ventricular outflow enlargement, Annual Symposium of Air Force Clinical Surgeons, San Antonio, TX, May 1983.
15. Beck DE, Mack JR JW: Pneumopericardium: A neonatal emergency. Annual Symposium of Air Force Clinical Surgeons, San Antonio, TX, May 1983.
16. Ehler WJ, Mack JR JW, Brown DL, Davis R: The porcine model for experimental open heart surgical procedures. American Association of Laboratory Animal Science, San Antonio, TX, November 1983.

17. Mack JR JW, Smith VC, Ehler WJ, Rogers JH, Brown PL: Bovine pericardium for right ventricular outflow enlargement. Southern Thoracic Surgical Association, Marco Island, FL, November 1983.
18. Mack JR JW: Mitral valve replacement in childhood using the St. Jude medical prosthetic valve. Fourth International Symposium on the St. Jude Medical Valve, Montego Bay, Jamaica, March 1994.
19. Mack JR JW: Complications following surgical corrections of congenital cardiac defects. Annual Symposium of Air Force Clinical Surgeons, Biloxi, MI, April 1984.
20. Glatterer MS, Toon RS, Ellestad C, McFee AS, Rogers W, Mack JR JW, Trinkle JK, Grover FL: Management of external esophageal trauma. American Association for the Surgery of Trauma, New Orleans, LA, September 1984.
21. Avery MD, Ybarra J, Estrello R, Norris S, Mack JR JW, Trinkle JF, Gorber FL: Effects of varied cardioplegic perfusion pressure on myocardial preservation with critical coronary stenosis. Southern Thoracic Surgical Association, Hilton Head, SC, November 1984.
22. Mack JR JW, Wheller J, Null D, Smith M: Surgical separation of conjoined thoracopagus twins with a single heart. Society of Thoracic Surgeons, Phoenix, AZ, January 1985.
23. Babka PM, Mack JR JW, Elliott M: Left heart bypass and pregnancy: A Case report, Ninth Annual Meeting of American Academy of Cardiovascular Perfusion, New Orleans, LA, September 1988.
24. Babka RM, Petress J, Briggs RM, Helsel RA, Mack JR JW: Conventional hemofiltration during routine coronary bypass surgery. Annual Seminar of the American Academy of Cardiovascular Perfusion, Orlando, FL, January 1996.
25. Prault T, Dieter III RA, Gaines TE, Mack JR JW, Tallent A: Cell-saver vs. Processed pump blood in CAGB: Effects on Post-Operative Transfusion and Cost Effectiveness, 2004 Residents' Research Day, University of Tennessee Medical Center at Knoxville, TN, June 2004.