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CURRICULUM VITAE

Date of Birth: April 16, 1947

Place of Birth: Plainview, Nebraska

Academic Positions: University of Minnesota, Department of Surgery, Minneapolis
Division of Cardiovascular and Thoracic Surgery
Professor of Surgery, October 2003 – present

Hospital Appointments: Abbott Northwestern Hospital, Minneapolis, MN
North Memorial Medical Center, Robbinsdale, MN
Fairview Southdale, Edina, MN
Fairview University, Minneapolis, MN
Mercy/Unity Hospitals, Minneapolis, MN
Ridgeview Medical Center, Waconia, MN

Licensure: Minnesota #0214281, 1974

Certification: The American Board of Surgery #26639, 1981, recertified 1993.

The American Board of Thoracic Surgery #4001, 1983
recertified 1993.

Internship & Residencies: University of Utah, Salt Lake City, UT
Cardiothoracic Surgery, 1980-1982.

University of Minnesota Hospital, Minneapolis, MN
General Surgery, 1973-1980.

Dr. Jesse Edwards Miller Hospital, St. Paul, MN
Cardiovascular Pathology, 1978.

Graduate Experience: University of Minnesota, Minneapolis, MN
Post-doctoral Fellowship: Major – Surgery, Minor - Physiology
Ph.D. - 1982

Education: Baylor College of Medicine, Houston, Texas
M.D., 1969-1973

Baylor University, Waco, Texas
B.S. Chemistry, 1969

Research Interests: Cardiac Assist Devices
Ventricular Restoration
Atrial Fibrillation

Clinical Interests: Aortic diseases
Cardiac Assist Devices
Maze Procedure
Valve Repair
Aortic Reconstruction
Beating Heart Coronary Artery Bypass
Heart Transplant

Honors and Awards: Top Doctor Award in Cardiovascular and Thoracic Surgery,
Mpls-St Paul Magazine, January 2007 issue

Top Doctor Award in Cardiovascular and Thoracic Surgery,
Mpls-St Paul Magazine, August 2005 issue

The Barney Clark Award, 1994

Recipient of Men & Women of Merit Award
Baylor University, 1987.

Saphenous Vein Harvesting Techniques for Coronary Bypass
1983-1984, AHA Grant, PID 8212038, PI.

Arnold Award for Excellence in Research
Baylor College of Medicine
1972-1973.

Medical & Academic Societies:

American College of Cardiology
American College of Chest Physicians, (Fellow)
American College of Surgeons
American Heart Association

American Medical Association
American Society for Artificial Internal Organs (ASAIO)
The Society of Thoracic Surgeons

Professional & Civic Activities:

President of American Society for
Artificial Internal Organs (ASAIO), 1996

Director of Heart Replacement Program
Minneapolis Heart Institute 1984-present

Administrative Experience: Administration of Outpatient Clinic
and Construction of New Hospital in
Bangalore, India, June – September, 1972

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Manuscripts:

1. Guerriero W.C., Scott R., and Joyce L.D.: Development of extracorporeal renal perfusion as an adjunct for bench renal surgery. *J. Urol.* 107: 4-8, 1972.
2. Joyce L.D. and Lindsay W.: Chylothorax after median sternotomy for intrapericardial cardiac surgery. *Journal of Thoracic and Cardiovascular Surgery* 71: 476-480, 1976.
3. Joyce L.D. and McQuarrie D.G.: Application of contemporary reconstructive technique in head and neck surgery for oral carcinomas. *Surgery* 80:373-378, 1976.
4. Mayer J.E., Joyce L.D., Reinke D., McGeachie R., Humphrey E.W. and Varco R.L.: Aberrant left pulmonary artery presented in an adult as a right paratracheal mass. *Journal of Thoracic and Cardiovascular Surgery* 72(4):571-574, 1976.
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- resistance to endotoxin and hemorrhagic shock. *Advances in Shock Research* pp. 125-147, Alan R. Lixx, Inc., New York, NY, 1979.
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 15. Niazi S., Flodin P., Joyce L.D., Smith J.M., Mauer, H.G. and Lillehei R.C.: Effects of glucocorticosteroids in patients undergoing coronary artery bypass surgery. *Chest* 76(3): 262-268, 1979.
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 17. Joyce L.D., Mauer H.G., Smith J.M. and Lillehei R.C.: Resistance to experimental peritonitis induced by local non-specific stimulation of the reticuloendothelial system. *Advances in Shock Research* 4:49-54, Alan R. Lixx, Inc., New York NY, 1980.
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 19. Joyce L.D., Boucek M., and McGough E.: Urokinase therapy for thrombosis of tricuspid prosthetic valve. *Journal of Thoracic and Cardiovascular Surgery. Journal of Thoracic Cardiovascular Surgery*, 85(6): 935-7, June, 1983.
 20. Smith D.L., Hastings W.L., Joyce LD, DeVries WC: Case report: cardiopulmonary bypass during implantation of permanent total artificial heart. *Proceedings of American Academy of Cardiovascular Perfusionists* 4:181-184, 1983.
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26. Anderson FL, DeVries WC, Anderson JL, Joyce LD: Evaluation of total artificial heart performance in man. *American Journal of Cardiology*, 54:394-398, August, 1984.
27. Joyce LD and Nelson RM: Comparison of porcine valve xenograft with mechanical prosthesis – a seven and one-half year experience. *Journal of Thoracic and Cardiovascular Surgery*, 88:102-113, 1984.
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30. Taylor A, Christian PE, DeVries WC, Doty FL and Joyce LD: Gated radionuclide studies of the artificial heart in vivo: Case report. *Noninvasive Medical Imaging*, 1:3-7, 1984.
31. Raymond J, DeVries WC, Joyce LD: Nutrition for the first total artificial heart patient: Implications for future patients. *Journal of The American Dietetic Association*, 84:532-535, 1984.
32. DeVries WC, Anderson JL, Joyce LD, Anderson FL, Hammond EH, Jarvik RK and Kolff WJ: Clinical use of the total artificial heart. *New England Journal of Medicine*, 31D:273-278, 1984.
33. Joyce LD: The implantation of the total artificial heart in a human. *The Bulletin of the Minneapolis Heart Institute*, 2:7-8, 1984.
34. Duncan PE, Hughes SD, Jarvik RK, DeVries WC, Joyce LD and Olson DB. Choice of the Medtronic-Hall valve in the Jarvik-7 total artificial heart (Abstract). *American Society of Artificial Internal Organs*, 13.3, 1984.
35. Taylor A, Milton W, Christian PE, Datz FL, Joyce LD, DeVries WC: Role of nuclear imaging in management of the first total artificial heart recipient, *Clinical Nuclear Medicine*, 10:427-431, 1985.
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Jarvik-7 artificial heart. *The Journal of Heart Transplantation*, 5:184-195, 1986.

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38. Pennington DG, Golding L, Hill JD, Joyce LD, Magovern GJ, Phillips SJ and Rosse D: Temporary mechanical support for cardiogenic shock. *ASAIO Transactions*, 1986.
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42. Lake KD, Cerra FB, Joyce LD, Pritzker MR, Felt PA, Johnson KE, Potts M, Borncamp R: Total artificial heart: Metabolic support and nutrition management. *Drug Intelligence and Clinical Pharmacy*, V21, July/August, 1987.
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65. Johnson KE, Prieto M, Joyce LD, Pritzker MR, Emery RW: "1990 summary of clinical use of the symbion total artificial heart: A registry report. *Journal of Heart Lung Transplantation*, 11:103-116, 1991.
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73. Burdine J, Joyce LD, Plunkett MB, Inampudi S, Kaye MG, Dunn DH: Feasibility and value of VATS wedge excision of small pulmonary nodules in patients with malignancy. Submitted to *Chest*, November, 2001.

74. Joyce LD, et al: One stop post op cardiac surgery recovery – a proven success. *Journal of Cardiovascular Management*, 2001;12:16-18.
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The St Jude Medical Cardiac Valve Prosthesis: A 25 year experience with single valve replacement. *Annals of Thoracic Surgery*, 2005;79:776-782.

Book Chapters

1. McQuarrie P, Toledo-Pereyra LH and Joyce LD: Reconstructive technique in head and neck surgery, p. 221-228. In *Cancer Surgery*. Delaney and Janarian Symposium Specialists, New York, NY, 1975.
2. Joyce LD and Nelson RM: Comparison of Bjork-Shiley and Porcine valve replacement – a seven and one-half year experience. In *Shiley Symposium on Prosthetic Heart Valve*. Shiley, Inc. 1982.
3. Joyce LD: An Evaluation of the Role of Stimulation of the Reticuloendothelial System to Induce Resistance to Shock. Ph.D. Thesis, University of Minnesota, August, 1982.
4. DeVries WC and Joyce LD: Artificial Heart. Clinical Symposia, CIBA Pharmaceutical Company, West Caldwell, NJ, 1984.
5. Johnson KE, Joyce LD, Eales F, Kiser JC, King RM: Mechanical Bridge to Transplantation. In *Cardiac Surgery – Cardiothoracic Transplantation – State of the Art Reviews*, edited by Robert W. Emery and Marc Pritzker, Hanley & Belfus, Inc., Philadelphia, October, 1988.
6. Eales F, Emery RW, Joyce LD, Von Rueden TJ, Paul PA, Jorgensen CR, Pritzker MR: Selection of Heart Transplant Recipients and Surgical Techniques. In *Cardiac Surgery – Cardiothoracic Transplantation – State of the Art Reviews*, Hanley & Belfus, Inc., Philadelphia, October, 1988.
7. Emery RW, Eales F, Von Rueden TJ, Joyce LD: The Cardiothoracic Donor. In *Cardiac Surgery: Cardiothoracic Transplantation – State of the Art Reviews*, edited by Robert W. Emery and Marc Pritzker, Hanley & Belfus, Inc., Philadelphia, V.2, October, 1988.
8. Johnson KE, Joyce LD: The Total Artificial Heart: An Overview. *Perspectives in Critical Care*. V.1(2), 1988.

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1. Joyce LD, and Lillehei RC: Studies of mechanism of reticuloendothelial protection against hemorrhagic shock in dogs. *Journal of Reticuloendothelial Society*, 22:16a, 1977.
2. Mauer HG, Zavos P, Joyce LD, Smith JM and Lillehei RC: Effects of intravascular helium perfusion in renal cryopreservation. *Federation proceedings*, 37:2048, 1978.
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4. MacCarter DJ, Joyce LD, Shatney CH and Lillehei RC: Deleterious hemodynamic effects of moderate doses of dopamine in experimental myocardial infarction shock. *Shock Society, Circulatory Shock*, 1978.
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11. Becker WK, Smith JM, Mauer HG, Joyce LD and Lillehei RC: Protective effects of reticuloendothelial stimulation in peritonitis. *Critical Care Medicine* 8(4):256, 1980.
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13. DeVries WC and Joyce LD: The implantation of the total artificial heart for the treatment of endstage cardiomyopathy. American Association for Thoracic Surgery, 1983.
14. Smith DL, Hastings WL, Joyce LD, DeVries WC: Case report: Cardiopulmonary bypass during implantation of permanent total artificial heart. American Academy of Cardiovascular Perfusion, 1983.
15. Armstrong JD, DeVries WC, Joyce LD, and Anderson FL: The implanted total artificial heart: imaging perspectives. Association of University Radiologists, March, 1983.
16. Olsen DB, DeVries WC, Joyce LD, Murray KD, Hamanaka Y, Chian BY, Kolff WJ: Cardiac transplantation in calves following prolonged maintenance on the total artificial heart. Samson Thoracic Surgical Society, February, 1983.
17. Berry C, Joyce LD, DeVries WC, Olsen DB: Strut fracture of a Bjork-Shiley valve used in a total artificial heart. Samson Thoracic Surgical Society, February, 1983.
18. DeVries WC and Joyce LD: The implantation of the total artificial heart for the treatment of endstage cardiomyopathy. American Society for Artificial Internal Organs, April, 1983.
19. Taylor A, Christian PE, DeVries WC, Datz FL, Joyce LD: In vivo multigated radionuclide studies of the artificial heart: case report. Society of Nuclear Medicine, June, 1983.
20. Smith DL, Hastings WL, Joyce LD and DeVries WC: Case report: cardiopulmonary bypass during implantation of permanent total artificial heart. January, 1984.
21. King CS, DeVries WC, Raymond JL, Joyce LD: The respiratory care of the first total artificial heart recipient: Implications for the future. American Association for Respiratory Therapy, Open Forum, 1984.
22. Duncan PE, Hughes SD, Jarvik RK, DeVries WC, Joyce LD, Olsen DB: Choice of the Medtronic-Hall valve in the Jarvik-7 total artificial heart. American Society of Artificial Internal Organs. 1984.
23. Gobel FL, Jorgensen CR, Roeller SK, List J, Joyce LD, Johnson KE, Goldenberg IF: Direct vasodilatory action of Amrinone demonstrated in calves with artificial hearts. American College of Cardiology, March 9, 1986.
24. Joyce LD, Goldenberg IF, Johnson KE, Jarvik RK, DeVries WC, Semb B, Copeland JG, Griffith BP, Cooley DA, Frazier OH, Pierce WS, Cabrol C, Keon WJ, Pritzker MR: Summary of the world experience with clinical use of total artificial hearts as cardiac support devices. American College of Cardiology, March 9, 1987.
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International Congress. *Cardiostim* 86.

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