

# CURRICULUM VITAE

William Thomas Caine, M.D.

## PERSONAL

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### *Contact Information*

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### *Personal Information*

**Birth:** April 12, 1965  
Madison, Wisconsin

**Family:** Married Margit K. Johnson, August, 1989  
Children: William H. Caine, age 29  
John E. Caine, age 26  
Charles T. Caine, age 24  
Ethan E. Caine, age 21

## PROFESSIONAL EXPERIENCE

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2009 – Present	Cardiothoracic Surgeon	Intermountain Medical Center Murray, Utah
2017 – Present	Adjunct Associate Professor of Surgery	University of Utah School of Medicine Salt Lake City, Utah
2011 – 2017	Adjunct Assistant Professor of Surgery	University of Utah School of Medicine Salt Lake City, Utah
2007 – 2009	Co-director, Cardiothoracic Surgery	Harrison Medical Center Bremerton, Washington
2003 – 2007	Asst. Professor of Surgery	University of Washington School of Medicine UW Regional Heart Center Bremerton, Washington

## EDUCATION

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### *Undergraduate*

1983 – 1989	University of Utah Salt Lake City, Utah	B.A. ( <i>cum laude</i> ): Political Science Minor: Chinese
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### *Graduate*

1989 – 1993	University of Utah School of Medicine Salt Lake City, Utah	M.D.
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### *Residency and Fellowship Training*

1993 – 1998	Resident in General Surgery	Massachusetts General Hospital Harvard Medical School Boston, Massachusetts
1998 – 1999	Fellow in Thoracic and Cardiovascular Surgery	Massachusetts General Hospital Harvard Medical School Boston, Massachusetts
1999 – 2000	Research Fellow The Immunology of Reperfusion Injury NIH Trauma Center Grant Francis D. Moore, Jr., M.D.	Brigham & Women's Hospital Harvard Medical School Boston, Massachusetts
2000 – 2001	Fellow in Thoracic and Cardiovascular Surgery	LDS Hospital Salt Lake City, Utah
2001 – 2003	Fellow in Thoracic and Cardiovascular Surgery	University of Utah Affiliated Hospitals Salt Lake City, Utah

## BOARD CERTIFICATION AND LICENSURE

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### *Board Certification*

National Board of Medical Examiners	Certificate No. 429352	1994
American Board of Surgery	Certificate No. 45583	2000
American Board of Thoracic Surgery	Certificate No. 6880	2004

## BOARD CERTIFICATION AND LICENSURE (Continued)

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### *Licensure*

Utah	License No. 4776800-1205	Expires 1/31/2026
California	License No. G 154821	Expires 4/30/2025
Washington	License No. MD00042759	2003 – 2010
Massachusetts	License No. 158077	1999 – 2006

## PROFESSIONAL SOCIETIES AND ORGANIZATIONS

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Guest Reviewer, <i>The Annals of Thoracic Surgery</i>	2015 – Present
Fellow, American College of Surgeons	2007 – Present
Society of Thoracic Surgeons	2003 – Present
Society of Thoracic Surgeons Taskforce on Quality Initiatives	2011 - Present
Western Thoracic Surgical Association	2007 – Present
American Society for Artificial Internal Organs	2010 – Present
Henry N. Harkins Surgical Society	2003 – Present
Massachusetts General Hospital Surgical Society	2000 – Present
Washington State Medical Association	2004 – 2010
American Heart Association	2004 – Present
Massachusetts Medical Society	1993 – 2021
Utah Medical Association	1989 – 1993, 2002 – 2003
American Medical Association	1993 – 1999

## RESEARCH FUNDING

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Supported by NIH Trauma Center Training Grant (~\$80,000) Grant awarded to Francis D. Moore, Jr., M.D.	1999 – 2000
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## HONORS AND AWARDS

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### *Professional*

Chair Intermountain Medical Group Board Salt Lake City, UT	2023 – Present
Member Intermountain Canyons Region Board of Trustees Salt Lake City, UT	2023 – Present
Vice Chair Intermountain Medical Group Board Salt Lake City, UT	2021 – 2023
Medical Staff President Intermountain Medical Center Salt Lake City, UT	2019 – 2020
Member Intermountain Salt Lake Valley Hospitals Board of Trustees Salt Lake City, UT	2019 – 2020
Intermountain Medical Group Board/Committee Member Intermountain Healthcare Salt Lake City, UT	2016 – 2021
Assistant Chief of Surgery Harrison Medical Center Bremerton, WA	2007 – 2009

### *Medical School*

Senior Class President, University of Utah School of Medicine	1992 – 1993
Florence M. Strong Award “In recognition of outstanding qualities and potential as a physician, dedication to and concern and compassion for patients”	1993
College Council, University of Utah College of Medicine	1992 – 1993

### *Undergraduate*

ASUU Academic Affairs Board	1988 – 1989
Academic Evaluation and Standards Committee	1988 – 1989

## TEACHING RESPONSIBILITIES

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Core Curriculum Review Course (Salt Lake City, UT and London, England)	2009 – Present
Thoracic Surgery Resident Training University of Utah Affiliated Hospitals Thoracic Surgery Residency	2009 – Present
Cardiothoracic Surgery Lecture for 3 <sup>rd</sup> Year Medical Students University of Washington School of Medicine	2003 – 2009

## COMMUNITY ACTIVITIES

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Member, The Church of Jesus Christ of Latter-day Saints Served volunteer church mission to Taipei, Taiwan	1984 – 1986
Lowell S. Bennion Community Service Center Project Coordinator University of Utah	1986 – 1989

## BIBLIOGRAPHY

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Taleb I, Kyriakopoulos CP, Fong R, Ijaz N, Demertzis Z, Sideris K, Wever-Pinzon O, Koliopoulou AG, Bonios MJ, Shad R, Peruri A, Hanff TC, Dranow E, Giannouchos TV, Krauspe E, Zakka C, Tang DG, Nemeh HW, Stehlik J, Fang JC, Selzman CH, Alharethi R, **Caine WT**, Cowger JA, Hiesinger W, Shah P, Drakos SG. Machine Learning Multicenter Risk Model to Predict Right Ventricular Failure After Mechanical Circulatory Support: The STOP-RVF Score. *JAMA Cardiol* 2024;9:272-82.

Drakos SG, Badolia R, Makaju A, Kyriakopoulos CP, Wever-Pinzon O, Tracy CM, Bakhtina A, Bia R, Parnell T, Taleb I, Ramadurai DKA, Navankasattusas S, Dranow E, Hanff TC, Tseliou E, Shankar TS, Visker J, Hamouche R, Stauder EL, **Caine WT**, Alharethi R, Selzman CH, Franklin S. Distinct Transcriptomic and Proteomic Profile Specifies Patients Who Have Heart Failure with Potential of Myocardial Recovery on Mechanical Unloading and Circulatory Support. *Circulation* 2023;147:409-24.

Sommakia S, Almah NH, Lee SH, Ramadurai DKA, Taleb I, Kyriakopoulos CP, Stubben CJ, Ling J, Campbell RA, Alharethi RA, **Caine WT**, Navankasattusas S, Hoareau GL, Abraham AE, Fang JC, Selzman CH, Drakos SG, Chaudhuri D. FGF21 (Fibroblast Growth Factor 21) defines a potential cardiohepatic signaling circuit in end-stage heart failure. *Circ Heart Fail* 2022;15:256-66.

Sekaran N, Horne BD, Doty JR, Reid BB, Miner EC, Harkness JR, Jones KW, Minder CM, **Caine WT**, Clayson SE, Whisenant BK. Transcatheter mitral valve in ring, hazards of long anterior mitral leaflet and 3-dimensional rings. *Catheter Cardiovasc Interv* 2021;97:353-58.

Miller M, Snyder M, Horne BD, Harkness JR, Doty JR, Miner EC, Jones KW, O'Neal KR, Reid BB, **Caine WT**, Clayson SE, Lindley E, Gardner B, Connors RC, Bowles BJ, Whisenant BK. Transcatheter aortic valve-in-valve replacement for degenerated stentless bioprosthetic aortic valves: results of a multicenter retrospective analysis. *JACC Cardiovasc Interv* 2019;12:1217-1226.

Benuzillo J, **Caine W**, Evans RS, Roberts C, Lappé D, Doty J. Predicting readmission risk shortly after admission for CABG surgery. *J Card Surg* 2018;33:163-170.

Tabachnick DR, Bowen ME, Stehlik J, Kfoury AG, **Caine WT**, Selzman, CH, McKellar SH. Health characteristics of heart transplant recipients surviving into their 80s. *J Surg Res* 2017;216:99-102.

Wever-Pinzon O, Drakos SG, McKellar SH, Horne BD, **Caine WT**, Kfoury AG, Li DY, Fang JC, Stehlik J, Selzman CH. Cardiac recovery during long-term left ventricular assist device support. *J Am Coll Cardiol* 2016;68:1540-53.

Johnson AK, McCandless SP, Alharethi R, **Caine WT**, Budge D, Wright GA, Rauf A, Miller A, Stoker S, Smith H, Afshar K, Reid BB, Rasmusson BY, Kfoury AG. Reasons for, and outcomes of patients who were referred for a ventricular assist device but were declined: the recent era forgotten ones. *Clin Transplant* 2016;30:195-201.

Kfoury AG, Miller DV, Snow GL, Afshar K, Stehlik J, Drakos SG, Budge D, Fang JC, Revelo MP, Alharethi RA, Gilbert EM, **Caine WT**, McKellar S, Molina KM, Hammond ME. Mixed cellular and antibody-mediated rejection in heart transplantation: In-depth pathologic and clinical observations. *J Heart Lung Transplant* 2016;35:335-41.

McCandless SP, Ledford ID, Mason NO, Alharethi R, Rasmusson BY, Budge D, Stoker SL, Clayson SE, Doty JR, Thomsen GE, **Caine WT**, Kfoury AG, Reid BB, Miller DV. Comparing velour versus silicone interfaces at the driveline exit site of HeartMate II devices: infection rates, histopathology, and ultrastructural aspects. *Cardiovasc Pathol* 2015;24:71-5.

Doty JR, **Caine WT**. Mitral valve replacement and tricuspid valve repair through a transeptal approach for double-valve endocarditis. *Multimed Man Cardiothorac Surg* 2012.

Ventura PA. Alharethi R. Budge D. Reid BB. Horne BD. Mason NO. Stoker S. **Caine WT**. Rasmusson B. Doty J. Clayson SE. Kfoury AG. Differential impact on post-transplant outcomes between pulsatile- and continuous-flow left ventricular assist devices. *Clin Transplant* 2011;25:E390-5.

Brush S, Budge D, Alharethi R, McCormick AJ, MacPherson JE, Reid BB, Ledford ID, Smith HK, Stoker S, Clayson SE, Doty JR, **Caine WT**, Drakos S, Kfoury AG. End-of-life decision making and implementation in recipients of a destination left ventricular assist device. *J Heart Lung Transplant* 2010;29:1337-41.

Moore FD Jr, **Caine WT**. Emerging immunologic basis of reperfusion injury. *Transplantation Reviews* 2000;14:158-67.

Content contributor to CTSNet Residents Section: Fundamentals in Cardiothoracic Surgery, 2003