
EDWARD M. BENDER, MD, FACS

541-768-5223 (Office)
ebender@stanford.edu

3600 NW Samaritan Dr.
Suite 227
Corvallis, Oregon
97333

Profile

Cardiovascular and Thoracic Surgeon
Clinical Associate Professor, Cardiothoracic Surgery
Stanford University School of Medicine
Palo Alto, California

Education

Wayne State University School of Medicine
Detroit, Michigan
Alpha Omega Alpha, 1979
MD, 1980

University of Michigan

Ann Arbor, Michigan
BS with Distinction, 1976

Professional Training

University of Chicago Medical Center
Chicago, Illinois
Resident in Thoracic Surgery, 1986 - 1988

City Hospital and Royal Infirmary

Edinburgh, Scotland
Registrar in Thoracic Surgery, 1985 - 1986

University of Colorado Health Sciences Center

Denver, Colorado
Resident in General Surgery, 1980 - 1985

Professional Experience

Samaritan Health System, Cardiothoracic Surgery Corvallis, Oregon	2016 - present
Cape Thoracic & Cardiovascular Surgeons Cape Girardeau, Missouri	1997 - 2016
Thoracic & Vascular Surgeons Barrington, IL	1995 - 1997

Cardiothoracic Surgery Private Practice 1991 - 1995
Dallas, Texas

University of Texas Southwestern Medical Center 1989 - 1991
Dallas, Texas
Assistant Professor of Surgery
Division of Thoracic and Cardiovascular Surgery

University of Chicago Medical Center 1988 - 1989
Chicago, Illinois
Instructor in Surgery
Division of Cardiac Surgery

Software Applications Developer for Cardiothoracic Surgery

Adult Cardiac Surgery Risk Calculator	PCI Risk
Heart Surgery Risk	EuroSCORE Calculator
EuroSCORE II Calculator	CTSNet Wiki
CTSNet App	CTSNet Videos
Cardiac ICU Mortality Calculator	Cardiothoracic Study Questions
iBronch	Lung Cancer Stage
Univ. of Minnesota Lung Donor Quality	Readmission Risk Calculator
Zwisch Me Resident Evaluation App	SESATS IX App
Esophageal Cancer Stage App	Pill Cam
CTSNet TV	

Awards

Resident Paper Competition 1985
American College of Surgeons, Chicago Chapter

Ben Eisman Surgical Resident Research Award 1984
University of Colorado Health Sciences Center

Distinguished Service Award 1980
Wayne State University School of Medicine

Elsa U. Pardee Cancer Research Grant Recipient 1975
University of Michigan

Certifications

Fellow, American College of Surgeons	1992 - present
American Board of Thoracic Surgery (#4763)	1989 - present
American Board of Surgery (#31598)	1986

Licensure

Oregon

Missouri

Illinois

Professional Affiliations

Society of Thoracic Surgeons

Innovations, Associate Editor

CTSNet, Associate Editor

Multimedia Manual of Cardiothoracic Surgery, Associate Editor

International Society of Minimally Invasive Cardiothoracic Surgery

Fellow, American College of Surgeons

Diplomat, National Board of Medical Examiners

Alpha Omega Alpha

Publications

1. Elbaum DJ, Bender EM, Brown JM, Keyes PL: Serum progesterone in pregnant rats with ectopic or in situ corpora lutea: Correlation between amounts of luteal tissue and progesterone concentration. *Biol Reprod*, 13:541, 1975.
 2. Bender EM, Miller JM, Possley RM, Keyes PL: Steroidogenic effect of 17-beta estradiol in the rabbit: Stimulation of progesterone synthesis in the prematurely regressing corpora lutea. *Endocrinology*, 103:1937, 1978.
 3. Bender EM, Moore EE, Kashuk J, Hopeman AR: Conservative management of sand aspiration – a case report. *Military Medicine*,
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149:989, 1984.

4. Hansbrough JF, Zapata-Sirvent R, Peterson V, Wang X, Bender EM, Claman HN, Boswick J: Characterization of the immunosuppressive effect of burned tissue in an animal model. *J Surg Res*, 37:383, 1984.

5. Bender EM, Hansbrough JF, Whitefield J, Anderson J, Claman HN: Prevention of post-burn alterations in helper and suppressor T-lymphocytes by cimetidine. *Surg Forum*, 35:166, 1984.

6. Hansbrough JF, Bender EM, Zapata-Sirvent R, Anderson J: Altered helper and suppressor lymphocyte populations in surgical patients. *Am J Surg*, 148:303, 1984.

7. Mekori YA, Bender EM, Zapata-Sirvent R, Hansbrough JF, Claman HN: The effect of histamine receptor antagonists on specific and non-specific suppression of experimental contact sensitivity. *J Allergy Clin Immunol*, 76:90, 1985.

8. Hansbrough JF, Zapata-Sirvent R, Bender EM, Claman HN: Modulation of suppressor cell activity and improved resistance to infection in the burned mouse. *J Burn Care Rehab*, 1985.

9. Hansbrough JF, Zapata-Sirvent R, Bender EM, Peterson V: Prevention of suppressed cell-mediated immunity in burned mice with histamine-2 receptor antagonist drugs. *J Burn Care Rehab*, 39:150, 1985.

10. Bender EM, Hansbrough JF, Zapata-Sirvent R, Sullivan J, Claman HN: Restoration of immunity in burned mice by cimetidine. *J Trauma*, 25:131, 1985.

11. Hansbrough JF, Zapata-Sirvent R, Bender EM: Prevention of alterations in postoperative lymphocyte subpopulations by cimetidine and ibuprofen. *Am J Surg*, 151:249, 1986.

12. Zapata-Sirvent R, Hansbrough JF, Bender EM, Bartle EF, Mansour MA, Carter WH: Post-burn immunosuppression in an animal model IV. Improved resistance to septic challenge with immunomodulating drugs. *Surgery*, 99:53, 1986.

13. Bender EM, Walbaum PR: Esophagogastrectomy for benign esophageal disease: Fate of the esophagogastric anastomosis. *Ann Surg*, 205:385, 1987.

14. Aronson S, Bender EM, Feinstein SB: Contrast echocardiography: A method to visualize changes in regional myocardial perfusion in the dog model for CABG surgery. *Anesthesiology*, 27:295, 1990.

15. Ellis JE, Bender EM: Intraoperative transesophageal

echocardiography in blunt thoracic trauma – a case report. *J Cardiothoracic Anesth*, 1990.

16. Bender, EM, Law DA, Steele, JS: Robotic Repair of Cor Triatriatum. Poster Presentation, International Society for Minimally Invasive Cardiothoracic Surgery, June, 2010, Berlin, Germany.

17. Hekmat K, Badreldin AM, Ferrari M, Doenst T, Bender EM, Brehm B: A New Logistic Model for Outcome Prediction in Cardiac Intensive Care Patients. American College of Cardiology Scientific Sessions, 2011, New Orleans, LA.

18. Doerr F, Badreldin A, Bender E, et al. Outcome prediction in cardiac surgery: the first logistic scoring model for cardiac intensive care patients. *Minerva Anestesiologica*, 78(8):879-86, 2012.

19. Badreldin A, Doerr F, Brehm B, Bender E, et al. Rapid Clinical Evaluation, an Early Cardiac Surgical Scoring System for Hand Held Digital Devices. *European Journal of Cardiothoracic Surgery*, 44(6): 992-7, 2013.

20. Loor G, Radosevich DM, Kelly RF, Cich I, Grabowski TS, Lyon C, Morrow JM, Bender E, Billings J, Hertz M. The University of Minnesota Donor Lung Quality Index (UMN-DLQI): A Consensus Based Scoring App Improves Donor Lung Utilization. *Annals of Thoracic Surgery*, pii: S0003-4975(16), 2016.

21. Meyerson S, Sternbach J, Bender E, Zwischenberger J. A system for evaluation of thoracic resident operative autonomy and formative feedback. *Annals of Thoracic Surgery*, in press
