

Timothy M. Guenther, MD

GENERAL INFORMATION

Education:

- 2008-2012 University of Nebraska, Lincoln, NE
Bachelor of Science. Majors: Biochemistry and Biology, Minors: Chemistry and Aerospace Studies
Graduated with Distinction
- 2012-2016 University of Nebraska Medical Center, Omaha, NE
Doctorate of Medicine
Graduated with High Distinction

POST- GRADUATE TRAINING

University of California Davis/Travis Air Force Base, Sacramento, CA

- 2016-17 Surgical Internship
- 2017-19 General Surgery Resident
- 2019-20 Research Resident, Department of Cardiothoracic Surgery
- 2020-Present General Surgery Resident

Board Certification:

NA

Licensure:

2017-Present California A151538

TEACHING EXPERIENCE

University of Nebraska, Lincoln NE

- 2010 Field Training Preparation Cadet Instructor (AERO 221L)

University of Nebraska, Lincoln NE

- 2010-12 Human Physiology Lab Teaching Assistant (BIOS 213L)

University of Nebraska Medical Center, Omaha NE

- 2015 June Term Clinic Instructor (taught suturing to all 3rd year medical students)

University of California Davis, Sacramento CA

- 2019-20 Surgical Intern Bootcamp Instructor

PROFESSIONAL SOCIETIES

- 2012-Present American Medical Association
- 2012-Present The Society of Federal Health Professionals (AMSUS)
- 2016-Present American College of Surgeons

AWARDS/HONORS

2006	Eagle Scout
2008	Air Force Academy Congressional Nomination
2008-12	Air Force Reserve Officer Training Corps Type 2 Scholarship
2012	University of Nebraska Alumni Association Vann Student Leadership Scholarship
2012-16	Air Force Health Profession Scholarship Program
2013	University of Nebraska Medical Center Summer Research Scholarship Program
2014	University of Nebraska Medical Center Marquis W. Hineman, M.D. Memorial Scholarship
2015	Alpha Omega Alpha (AOA) Honor Medical Society Induction
2016	University of Nebraska Medical Paul E. Hodgson Award for Outstanding Performance in Surgery
2020	Air Force Committee on Trauma Resident Paper Competition Runner Up, Basic Science

SERVICE/ACTIVITIES

United States Air Force (2008-Present)

- Commissioned from Detachment 465 at UNL. Served as Fall 2011 Cadet Wing Commander
- Active Duty Captain stationed at Travis Air Force Base during residency at UC Davis

High School Alliance Mentorship program (2014-2016)

- Serve as mentor to high school students interested in the medical field

SHARING Student Clinic (2012-2016)

- Volunteer at University of Nebraska Medical Center's (UNMC) student run free health clinic

UC Davis Advancing Leadership across the Health Sciences (2020)

- Participated in the six month multi-disciplinary course hosted by Graduate Medical Education

ABSTRACT PRESENTATIONS (ORAL & POSTER)

1. Guenther TM, Black PN, DiRusso CC. "Screening of the *Saccharomyces cerevisiae* Knockout Library for Genes that Influence Fatty Acid Uptake and Utilization" **University of Nebraska- Lincoln Undergraduate Research Symposium**. Lincoln, NE. May 2012 (Poster)
2. Guenther TM, Chao J, Heimann D, Hansen C, Carlson MA. "Disruption of Nuclear Factor- κ -B Signaling in the Fibroblast-Populated Collagen Matrix" **American College of Surgeons Academic Surgical Congress**. San Diego, CA. Feb 2014 (Oral)
3. Guenther TM, Becker J, Grace N, Wiedeman J. "De Garengeots Hernia: A Report of Two Cases, Analysis of 177 Published Cases, and Proposed Classification System" **2019 Military Surgical Symposium/Society of American Gastrointestinal and Endoscopic Surgeons**. Baltimore, MD. April 2019 (Oral)
4. Guenther TM, Wozniak CJ, Raff GW. "Anomalous Origin of the Right Coronary Artery from the Pulmonary Artery: Analysis of 223 Published Cases with a Proposed Classification System" **Southern Thoracic Surgical Association**. Marco Island, FL. Nov 2019 (Oral)
5. Guenther TM, Spruce MW, Bach LM, Caples, CM, Beyers CA, Grayson JK, Meyers FM, Palmieri TL, Brown IE. "High Versus Low Volume Fluid Resuscitation Strategies in a Porcine Model (*Sus scrofa*) of Combined Thermal and Traumatic Brain Injury" **Shock Society Annual Conference**. Toronto, Canada. June 2020 (Poster, cancelled to COVID 19)
6. Guenther TM, Bach LM, Gustafson JD, Wozniak CJ. "Pericardial Constraint and Acute Cardiac Tamponade in a Porcine (*Sus scrofa*) Model" **Air Force/American College of Surgeons Committee on Trauma Resident Paper Competition**. Virtual. June 2020 (Oral)

PUBLICATIONS

1. Chao J, Peña T, Heimann D, Hansen C, Doyle D, Yanala U, Guenther TM, Carlson MA. "Expression of green fluorescent protein in human foreskin fibroblasts for use in 2D and 3D culture models" **Wound Repair and Regeneration**. 2014. 22(1):134-40
2. Chao J, Dai X, Peña T, Doyle D, Guenther TM, Carlson MA. "MCPIP1 regulates fibroblast migration in 3D collagen matrices downstream of MAP kinase and NF- κ B" **Journal of Investigative Dermatology**. 2015. 135(12):2944-54

3. Guenther TM, Coker T, Chen SI, Carlson MA. "Military Medicine Interest Groups in US Medical Schools" **Military Medicine**, 2016. 181(11):e1449-e1454
4. Guenther TM, Goday L, Chen SA, Yeh J, Raff GW. "Left Ventricle to Right Atrial Shunt Associated with Ventricular-Atrial Malalignment, Double Outlet Right Atrium, and Subaortic Membrane." **Seminars in Thoracic and Cardiovascular Surgery**, 2020. 32(1):140-142
5. Guenther TM, Sherazee EA, Wisneski AD, Gustafson JD, Wozniak CJ, Raff GW. "Anomalous Origin of the Right Coronary Artery From the Pulmonary Artery: A Systematic Review" **Annals of Thoracic Surgery**, 2020. 7;S0003-4975(20)30352-0
6. Guenther TM, Gustafson JD, Wozniak CJ, Zakaluzny SA, Utter GH. "Penetrating Thoracic Injury From a Bean Bag Round Complicated by Development of Post-Operative Empyema" **Journal of Surgical Case Reports**, 2020. 24;2020(4):rjaa078
7. Guenther TM, Chen SA, Wozniak CJ, Leshikar D. "Fatal Cardiac Injury Sustained From an Air Gun: Case Report With Review of the Literature". **International Journal of Surgical Case Reports**, 2020. 11;70:133-136
8. Guenther TM, Chen SA, Balkhy HH, Kiai B. "Robotic Coronary Artery Bypass Grafting: The Whole 9 Yards" **Innovations**, 2020. May 18;1556984520922931
9. Guenther TM, Rinderknecht T, Phan H, Wozniak CJ, Rodriguez VM. "Pericardial Rupture Leading to Cardiac Herniation After Blunt Trauma" **Trauma Case Reports**, 2020. 11;27:100309
10. Wisneski AD, Guenther TM, Cosden C, Zimmet J, Wozniak CJ, London M, Kouretas P, Tseng EE. "Anomalous Right Coronary Artery Originating from the Pulmonary Artery (ARCAPA) in an Adult: Correction with Careful Preservation of the Pulmonary Valve and Pulmonary Artery" **The Journal of Heart Valve Disease**, In press
11. Guenther TM, Sherazee EA, Curtis BC, Riojas RA. "Acute Exercise Induced Compartment Syndrome in an 22 Year Old Active Duty Man and Review of the Literature" **Military Medicine**, In Press
12. Guenther TM, Gustafson JD, Pribyl SM, Wozniak CJ. "Recurrent Spontaneous Pneumothorax in a 47 Year Old Woman" **Military Medicine**, In Press
13. Guenther TM, Sherazee EA, Gustafson JD, Wozniak CJ, Brothers JA, Raff GW. "Anomalous Origin of the Circumflex or Left Anterior Descending Artery from the Pulmonary Artery: A Systemic Review" **World Journal for Pediatric and Congenital Heart Surgery**, In Press

EDITORIAL REVIEW

Ad hoc reviewer for the World Journal for Pediatric and Congenital Heart Surgery

Ad hoc reviewer for Surgical Case Reports

PERSONAL INFORMATION

Marital status: Married

Children: 3

Hobbies & Interests:

Enjoy spending time with my family and outside running, cycling, hiking, gardening, fishing, and hunting. Have a 99' Jeep and house built in 1950 for which I enjoy doing most repairs and maintenance. Lastly, I am particularly fond of country music.