

Melanie Barnard, MD

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CURRENT ACADEMIC POSITIONS

Program Director General Surgery Residency Program – SIUSOM	July 2022 - Present
Assistant Professor of Surgery Southern Illinois University School of Medicine	Sept 2019 – Present
MS4 General Surgery Clerkship Director General Surgery Residency Program – SIUSOM	Sept 2019- Present

EDUCATION

Doctor of Medicine Medical College of Georgia Augusta, GA	2010-2014
Bachelor of Arts Degree, Biology, Cum laude Covenant College, Lookout Mtn, GA	2006-2010
High School Diploma Heritage International School Kampala, Uganda	2003-2006

POSTGRADUATE TRAINING

Residency – Categorical General Surgery SIU General Surgery Residency Springfield, IL	July 2014 – June 2019
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PROFESSIONAL POSITIONS AND EXPERIENCE

Director, Breast Cancer Center Simmons Cancer Center, Springfield, Illinois	2021- present
Associate Program Director General Surgery Residency Program – SIUSOM	Jan 2022- July 2022

Research Intern Chattem Inc. Chattanooga, TN	2008 – 2010
Personal assistant Employer- Jacqueline Gregory Lookout Mtn, TN	2007 – 2010
Facility Services Team Leader Covenant College - Lookout Mountain, GA	2006 – 2008

BOARD CERTIFICATIONS

American Board of Surgery Certificate No: 65292	2019
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MEDICAL LICENSES

Illinois Medical License	2019 – present
Illinois Medical License (Resident)	2014-2019

EDUCATIONAL EXPERIENCE

Development of new Residency Core Conference Curriculum Led Development and authored new structure/content SIU General Surgery Residency Program	2021 -present
Resident As Teachers' Course (RATS) (annually) Lecturer: "Teaching Surgery in a Clinical Setting" SIU General Surgery Residency Program	2021 – present
Development of MS3 General Surgery Clerkship Curriculum Co-Contributor-structure and content SIU School of Medicine – General Surgery Department	2021 -present
Resident Readiness Course (annually) Lecturer: "Consents, Consults and Handoffs" SIU General Surgery Residency Program	2021 – present
MS3 –Lecture on Surgical Oncology in breast, skin, colon (Monthly) SIU School of Medicine	2021 – present
Development of ALL-SAFE Laparoscopic simulation Curriculum Developed multiple high-fidelity low-cost simulation models	2020 -present

Co-Contributor to didactic curriculum and Assessment tools
 African Laparoscopic Learners - Surgical Advancement for Ectopic pregnancy
 Modules developed:
 - Ectopic Pregnancy
 - Appendicitis
 - Diaphragm injury
 - Small bowel diverticulum
 - port placement

Mock Oral Board Examiner SIU General Surgery Residency Program	2019 - present
Inguinal Anatomy/Hernia Repair Skills Lab (annually) SIU Department of Surgery Residency	2019 – present
Cholecystectomy/Common bile duct exploration Skills Labs (annually) SIU Department of Surgery Residency	2019 – present
Suturing and Tying Skills Labs (annually) SIU Department of Surgery Residency Programs Boot Camp	2019 – present
Hand Sewn Bowel Anastomosis Skills Labs (annually) SIU Department of Surgery Residency Programs Boot Camp	2019 – present
SIU General Surgery Core Conference (annually) (Breast malignancy, benign breast lesions, acute abdomen)	2019- present
National Guard Hemorrhage Control Simulation Lab Memorial Center for Learning and Innovation	2018- 2020
Breast Feeding Education for low income mothers MCG, Albany Georgia	2014

LOCAL AND GLOBAL PRESENTATIONS

“‘I Want Them Both OFF!’ Supporting Breast Cancer Surgery Patients” 22nd Annual Simmons Cancer Institute Symposium: Empowering Primary Care with Essential Insights into Cancer Management. Springfield, IL	Sept 2024
“Surgical Management of Breast Cancer” 2023 BTF Multidisciplinary Breast Cancer Conference East Peoria, IL	April 2023

“Surgical Management of Locally Advanced Breast Cancer.” Updates in Internal Medicine, Hematology & Oncology, Surgery & Obstetrics International Health and Development Network Online CME event	Jan 2022
“Management of Borderline and High-Risk Lesions of the Breast” CME event on cancer screening for primary care: SIU School of Medicine Springfield, IL	Oct 2021
“General Surgery in an Era of Specialization” SIU General Surgery Grand Rounds Springfield, IL	May 2019

PROFESSIONAL SOCIETIES MEMBERSHIPS

American College of Physicians	2019-present
American Society of Breast Surgeons	2019- present
Association for Surgical Education (ASE)	2019- present
American College of Surgeons (ACS)	2017- present
Association of Women’s Surgeons	2014 - present

PROFESSIONAL EXPERIENCE/ COMMITTEES

Member, SIU General Surgery Residency Clinical Competency Committee	2021-2022
Faculty member, GME CV Fellowship Internal Review Committee	Jan 2022
Director, Breast Tumor Board Conference	2019-present
Member, SIU General Surgery Residency Governance Committee	2017 – present
Vice President, Resident SIU House Staff	2018-2019
Member, Resident SIU House Staff	2017-2019
Journal Reviewer	
American Journal of Surgery	2021 – present

Surgery	2021
Lean Six Sigma Certification - Executive White Belt	2014

HONORS AND AWARDS

Excellence in Teaching Award – Medical Student Teaching SIU School of Medicine – Department of Surgery	2023
Excellence in Teaching Award – Resident Teaching SIU School of Medicine – Department of Surgery	2022
Faculty Teacher of the Year for Resident Teaching SIU School of Medicine – Department of Surgery	2021
Excellence in Teaching Award – Resident Teaching SIU School of Medicine – Department of Surgery	2021
Excellence in Teaching Award – Medical Student Teaching SIU School of Medicine – Department of Surgery	2021
Outstanding Contribution as Teacher in Resident Education SIU General Surgery Residency Program	2021
Excellence in Teaching Award – Resident Teaching SIU School of Medicine – Department of Surgery	2020
Outstanding Contribution as Teacher in Resident Education SIU General Surgery Residency Program	2020
Resident Excellence in Teaching Award – Medical Student Teaching SIU School of Medicine – Department of Surgery	2019
Resident Excellence in Teaching Award – Medical Student Teaching SIU School of Medicine – Department of Surgery	2018
Resident Excellence in Teaching Award – Medical Student Teaching SIU School of Medicine – Department of Surgery	2017
Patient Care/Health Advocacy:	
Medical Student Award for Excellence in Clinical Skills Medical College of Georgia	2014

Elaine J Stone Award for Health Advocacy
Medical College of Georgia

2011

Certificate in Physician Leadership and Advocacy
Medical College of Georgia

2012-2013

GRANTS

Global Surgical Training Challenge Grand Prize winner (Total grant award US\$1.3 million)
Global competition for creation of novel low-cost surgical simulation.
Team -ALL-SAFE (African Laparoscopic Learners - Surgical Advancement For Ectopic pregnancy) –joint group with University of Michigan as well as the Pan-African College of Christian Surgeons to develop a high fidelity, low cost simulation to teach laparoscopic surgeries.

PUBLICATIONS

“A novel tool for assessing psychomotor proficiency in laparoscopic cholecystectomy using simulation-based training.” Kim, E., Tchinde, M. J., Rooney, D. M., Ngam, B. N., Rettig, R. L., Gross, C. L., Snell, M. J., **Barnard, M. L.**, El-Hayek, K., Jeffcoach, D. R., & Kim, G. J. *Surgical Endoscopy*. (2025).

“Evidence supporting a virtual case-based module to improve cognitive foundation for the management of laparoscopic appendectomy.” Reynolds, C. W., Rooney, D. M., Jeffcoach, D. R., **Barnard, M.**, Snell, M. J., Ngam, B. N., Tanyi, J., El-Hayek, K., Bidwell, S. S., Anidi, C., Ryder, C. Y., & Kim, G. J. (2024). *Global Surgical Education - Journal of the Association for Surgical Education*, 3(1).

“Evidence for a case-based module in the low-resource setting to teach ectopic pregnancy management.” Hsu, I. J., Lenders, J., Johnson-Griggs, M. A., Gist, H., Vaishampayan, N., Ryder, Y., Obayemi, J., Hsu, P. J., Jeffcoach, D., **Barnard, M.**, French, M., Snell, M., Rooney, D. M., & Kim, G. J. *Surgery in Practice and Science*, 14, 100209. (2023).

“Evidence supporting performance measures of laparoscopic appendectomy through a novel surgical proficiency assessment tool and low-cost laparoscopic training system” .Reynolds CW, Rooney DM, Jeffcoach DR, **Barnard M**, Snell MJ, El-Hayek K, Ngam BN, Bidwell SS, Anidi C, Tanyi J, Yoonhee Ryder C, Kim GJ *Surg Endosc*. 2023

“Validation of Performance Measure of laparoscopic Salpingostomy using a novel low cost ectopic pregnancy simulator” Ryder, Y. Rooney PHd D, Mott N, Snell MD **M, Barnard MD**, M, Blessing MD N, Jeffcoach MD D, Kim MD, *Global Surg Educ* **1**, 41 (2022).

"Fatigue in surgical residents: An analysis of duty-hours and the effect of hypothetical naps on predicted performance". **Barnard M**, Mellinger JD,. *Am J Surg*. 2020

ORAL RESEARCH PRESENTATIONS

“Reducing Colon Surgical Site Infections Through Clean Closure Protocol “– Presentation for SIU Resident Research Day –(April 2016)

“Implementation of a Standardized, Evidence-Based Protocol for Routine Central Line Replacement to Decrease Catheter-related Blood Stream Infections in High-Risk Burn Patients: A Pre-Post Protocol study” Tehrani N, Barnard M, McKenna k, Daugherty T. SIU GME QI Research Symposium (September 2016)

“Biofeedback therapy in fecal incontinence; what predicts response? How long should treatment be?” Presentation of II chapter ACS meeting (May 2016)

OTHER SCHOLARLY ACTIVITY

Development of standardized in vitro measurement of SPF for compliance with FDA regulations

Chattem, Inc. Chattanooga, TN (May 2009-August 2009)

Corneometer testing of Gold Bond Body Wash on skin versus Ivory Soap.

Chattem, Inc. Chattanooga, TN (May 2009-December 2009)

OTHER CREATIVE PRODUCTS

Simulation Models:

1. Splenic Hemorrhage Team Simulation (2019) – Resident and hospital educational activity which provided real time feedback to a surgical team encountering a life-threatening bleed during a routine operation. Designed cadaver simulation model as well as ran simulation live.
2. Low cost high fidelity simulation models for ALL-SAFE
 - Ectopic Pregnancy
 - Appendicitis
 - Diaphragm injury
 - Small bowel diverticulum
 - port placement

Educational videos

1. “Complement System Ending – Opsonization and Membrane Attack Complex” – Education animation uploaded to YouTube.com - <https://www.youtube.com/watch?v=6SiqO20ySQc>
2. “Complement System Start Pathways” – Education animation uploaded to YouTube.com - <https://www.youtube.com/watch?v=i7GlzT8WDhw>

Non-academic Publications

1. Barnard, M. (2018). “Dry Eyes, Steady Hands.” In *SCOPE* (pp. 44–45). prose, SIU School of Medicine.
2. Barnard, M. (2024). “What I Fear is the Silence.” In *SCOPE* (pp. 51). poetry, SIU School of Medicine.
3. Barnard, M. (2024). “Fixing Problems.” In *SCOPE*, special edition (pp. 13-15). essay, SIU School of Medicine.