

Curriculum Vitae

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Training

09/1997 - 05/2000 B.S. in Biochemistry from University of California at San Diego, San Diego, CA
09/2000 - 05/2004 M.D. from Johns Hopkins School of Medicine, Baltimore, MD
07/2004 - 06/2006 Residency in General Surgery, Johns Hopkins Hospital, Baltimore, MD
07/2006 - 06/2010 Residency in General Surgery, Duke University Medical Center, Durham, NC
07/2010 - 06/2013 Residency in Anesthesiology, University of North Carolina, Chapel Hill, NC
07/2013 - 06/2014 Fellowship in Cardiothoracic Anesthesiology, Vanderbilt University Medical Center, Nashville, TN

Licensure and Certification

07/2009 - Present Medical License, North Carolina Medical License (2009-01313)
05/2014 - Present Board Certification, Anesthesiology
07/2014 - Present Medical License, Tennessee Medical License (50731)
07/2014 - Present Certification, Advanced Perioperative Transesophageal Echocardiography

Academic Appointments

07/2014 - 05/2020 Assistant Professor of Anesthesiology, Vanderbilt University Medical Center (Nashville, Tennessee)
06/2020 - Present Associate Professor of Anesthesiology, Vanderbilt University Medical Center (Nashville, Tennessee)
11/2015 - 09/2017 Associate Director, Adult Cardiothoracic Anesthesiology Fellowship, Vanderbilt University Medical Center (Nashville, Tennessee)
10/2017 - Present Program Director, Adult Cardiothoracic Anesthesiology Fellowship, Vanderbilt University Medical Center (Nashville, Tennessee)

Professional Organizations

2004 - 2010 American College of Surgeons
2007 - 2010 Society of Vascular Surgeons
2010 - Present American Society of Anesthesiologists
2012 - Present Society of Cardiothoracic Anesthesiologists

2015 - Present Consortium of Universities for Global Health

Professional Activities

Intramural

08/2012 - 02/2013 Member, Resident Recruitment and Selection Committee, University of North Carolina, Chapel Hill, NC

2014 - Present Member, Clinical Competency Committee for Adult Cardiothoracic Anesthesia Fellowship, Vanderbilt University Medical Center, Nashville, TN

2015 - Present Curriculum Director, Non-Physician Anesthesia Curriculum for Low Income Settings, Vanderbilt University Medical Center, Nashville, TN

01/2015 - Present Member, Program Evaluation Committee, Adult Cardiothoracic Anesthesiology Fellowship, Vanderbilt University Medical Center, Nashville, TN

03/2016 - Present Affiliated Faculty, Vanderbilt Institute for Global Health, Vanderbilt University Medical Center, Nashville, TN

07/2017 - Present Chair, Vanderbilt International Anesthesia Fundraising Committee, Vanderbilt University Medical Center, Nashville, TN

07/2018 - Present Member, Early and Mid-Career Task Force, Department of Anesthesiology, Vanderbilt University Medical Center, Nashville, TN

Extramural

02/2017 - Present Member, Society of Cardiothoracic Anesthesia (SCA) International Committee

04/2017 - present Resident / Fellow Poster presentation Moderator and PBLD session moderator, SCA Annual Conference

04/2021 - present Chair / Society of Cardiothoracic Anesthesia (SCA) Diversity and Inclusion Committee

Teaching Activities

Course Director

1. Cardiothoracic Division weekly Conference – CME accredited course, covering issues concerning cardiothoracic patients. 09/2014 – 09/2020.
2. Training of Trainers Course for Anesthesia Educators – 1-3-week course for nurse anesthesia educators, covering pedagogy, OR teaching, and Simulation training. 06/2017 – Kisumu, Kenya. 06/2018 – Kijabe, Kenya. 01/2019 – Mekelle, Ethiopia. 10/2019 – Bahir Dar, Ethiopia (upcoming).
3. Point of Care Ultrasound Course – 2-week training for Anesthesiologists and Anesthesia residents. Addis Ababa University, Addis Ababa, Ethiopia. 06/2019.
4. LMIC COVID-19 Tele-education Lecture Series – A 4-week 9 lecture series on COVID-19 Management geared towards healthcare providers in low resource settings. 04/2020 – 05/2020.
5. Training of Trainers Course for Physician Anesthesia Educators – 12-week online course for educators from 10 Universities in Ethiopia. 10/2020 – 02/2021.
6. Training of Trainers Course for Physician Anesthesia Educators – Tanzania (3 major academic institutions). 03/2021-06/2021.

Lectures- Local

08/2014 – Present	Pacemakers and ICDs - Cardiac Division resident lecture series. VUMC, Nashville, TN. (4-5 lectures a year)
07/2015 – Present	Comprehensive TEE Exam – Vanderbilt University Cardiothoracic Anesthesia Fellowship Lecture Series. Nashville, TN. (yearly lecture)
08/2016	Perioperative CIED Management - CT Division Weekly Conference. Nashville, TN.
09/2016 – Present	Oral Board Practice Examiner - Vanderbilt University Anesthesia Residents. Nashville, TN.
09/2016 – Present	Pacemakers and ICDs: PBLD - Vanderbilt University Cardiothoracic Anesthesia Fellowship Lecture Series. Nashville, TN. (yearly lecture)
04/2017 – Present	Echo Conference Presenter - Cardiothoracic Anesthesiology Conference. Nashville, TN. (3-4 lectures a year)
12/2017	Systemic VAD Placement in a Mustard Patient: Case Presentation - CT Anesthesia Weekly Conference, Nashville, TN.
02/2018	AV Dissociation and Atrial Dissection After Mitral Valve Surgery: Case Presentation - CT Anesthesia Weekly Conference, Nashville, TN.
02/2018	TAVR after CABG with LIMA graft: Case Presentation - CT Anesthesia Weekly Conference, Nashville, TN.
09/2019	Cardiac Implantable Electronic Device Management, Resident Lecture Series, Brigham And Women's Hospital, Boston, MA.

Lectures- International

10/2014 – 06/2018	Kenyan Registered Nurse Anesthetist curriculum. Kijabe, Kenya and Kisumu, Kenya. Invited once a year for two weeks to provide lectures to nurse anesthetist students on several anesthesia topics and serve as an external oral examiner.
06/2017 – 01/2019	Training of Trainers Course - Kisumu, Kenya; Kijabe, Kenya; and Mekelle, Ethiopia. Creating Objective and Developing Lesson Plan / Appropriate Use of Animations in Power Point Presentations / Blooms' Taxonomy Workshop / Learning Styles Workshop / Flipped Classroom Demonstration Workshop / Teaching: The Big Picture / How Does an Educator Prepare a PPT Presentation? / What are learning styles? / PowerPoint Software Tutorial / Creating a PBLD workshop / Bloom's Taxonomy Overview / What is a Flipped Classroom.
04/2020 – 06/2020	LMIC COVID-19 Lecture Series – Clinical Features and Management of Cardiovascular Disease in COVID-19.
10/2020 – 02/2021	Online Training of Trainers Course for Anesthesiologists – Anesthesiologists from 10 major Universities in Ethiopia. Learning Theory / Course Planning / Effective Power Point Presentation methodologies / Effective Teaching and Assessment / Time Management / Effective Mentoring / How to Create and Run PBLDs / Flipped Classroom Design / Leaders in Health: Leadership Mindset and Behavior / Leaders in Health: Leading with Influence

Research Supervision / Mentorship

06/2017- 08/2017	Cassie Springer, Summer Intern
07/2015 – 06/2016	Mark Henry, M.D., Vanderbilt University, Cardiothoracic Anesthesiology Fellow, currently Assistant Professor at University of North Carolina, Chapel Hill, NC.
07/2015 – 06/2017	Savannah Hunt, Vanderbilt University, MPH Student, Anesthesiology Resident

07/2016 – 06/2020	Matt Kynes, M.D., VUMC, Assistant Professor
09/2016 – 10/2020	Tiffany Richburg, M.D., VUMC, Assistant Professor
07/2017 - 06/2018	Mark Bombulie, M.D., VUMC, Cardiothoracic Anesthesiology Fellow
07/2018 – 06/2020	Megan Henley, M.D., VUMC, Cardiothoracic Anesthesiology Fellow,
07/2018 – Present	Austin Woodard, M.D., VUMC, Anesthesiology Resident
07/2018 – 06/2020	Melissa Bellomy, M.D., VUMC, Cardiothoracic Anesthesiology Fellow
06/2019 – 08/2019	Kendall McEvoy, VUMC, Summer Intern
09/2020 – Present	Amany Alshibli, Vanderbilt University Medical Student
09/2020 – Present	Claire Spralading, Vanderbilt University Anesthesiology Resident

Grants and Funding

07/2015 – 06/2016	Co-Investigator. Baxter - PI initiated grant. Susan Eagle (PI). <i>'Peripheral venous pressure analysis: hemodynamic considerations'</i> Total Cost: \$750,000.
01/2015 – 06/2021	Co-Investigator. GE Foundation – PI Initiated grant. Matthew McEvoy (PI). <i>Impact Africa Grant: Improve Education Capacity in Kenya</i> . Total Cost: \$4,300,000.
03/2018 – 03/2021	Principal Investigator. Co-PI Mark Newton. GE Foundation / ELMA Foundation PI Initiated Grant. <i>IMPACT Africa – Ethiopia</i> . Total Cost: \$376,000.
06/2019 – 12/2019	Co-Investigator. PI Antonio Hernandez. Society of Critical Care Medicine. <i>The Use of Portable Ultrasound in Low Resource Settings to Aid in Perioperative Assessment of Patients</i> . Total Cost: \$84,000.
10/2019 – 04/2020	Principal Investigator. Co-PI Grace Umutesi. Partners in Health. <i>Global Perioperative Outcomes in Rwanda</i> . Total Cost: \$14,005.
11/2020 – Present	Principal Investigator. ELMA Foundation / GE Foundation. IMPACT Africa Physician Residency Program – Ethiopia. Total Cost: \$637,868.49.
11/2020 – Present	Co-Investigator. PI Mark Newton. ELMA Foundation / GE Foundation. IMPACT Africa Tanzania Program. Total Cost: \$1,994,000.

Honors / Awards

2008	Society of Vascular Surgery Travel Scholarship Recipient, Society of Vascular Surgery
05/2018	Charles Bernard Pittinger Prize for Excellence in Education Research, Warren S. Sandberg, MD PhD

Publications

Peer Reviewed Articles

1. Lee S, Wang Y, Mao L, Cho C, Kim S, Tarin T, Kim DH, Mazzoni G, Fazi M, Nozawa M, Lee D, **Sileshi B**, Wei W, Lentini A, Yoo CH, Youngkin T, Wolf P, D'Silva M, Gittes RF. Update on sequential isologous rat organ transplantation: Pancreaticoduodenal and kidney transplantations. *Microsurgery* 1999; 19(2):83-8. PMID: 10188831.
2. Lee S, Wang Y, Kim S, Cho C, Tarin T, **Sileshi B**, Yoon JH, Mazzoni G, Youngkin T, Wolf P, Gittes RF. Mouse-to-rat testicle transplantation. *Microsurgery* 1999; 19(2):66-70. PMID: 10188828.

3. Lee S, Yoo CH, Hong IC, Bai S, Nam S, Lee D, **Sileshi B**, Nozawa M, Niewiadomski S, Fazi M, Wolf P, Tatum T, Gittes RF. Syngeneic consecutive rat spleen transplantation bearing infantile testis. Microsurgery 2001; 21(4):166-9. PMID: 11494386.
4. Achneck HE, **Sileshi B**, Lawson JH. Review of the biology of bleeding and clotting in the surgical patient. Vascular 2008 March;16 Suppl 1: S6-13. PMID: 18544308.
5. **Sileshi B**, Achneck HE, Lawson JH. Management of surgical hemostasis: Topical agents. Vascular 2008 March;16 Suppl 1: S22-8. PMID: 18544302.
6. Evans DC, **Sileshi B**, Zakaria AM, Giangiacomo D, Manson RJ, Lawson JH. Genomic modeling of atherosclerosis in peripheral arterial disease and its variant phenotype in patients with diabetes. Vascular 2008 July;16(4):225-35. PMID: 18845104.
7. Ceppa EP, **Sileshi B**, Beasley GM, Lawson JH. Surgical excision of infected arteriovenous grafts: Technique and review. The Journal of Vascular Access 2009 July;10(3):148-52. PMID: 19670165.
8. Hughes GC, Daneshmand MA, Balsara KR, Achneck HA, **Sileshi B**, Lee SM, McCann RL. "Hybrid" repair of aneurysms of the transverse aortic arch: Midterm results. The Annals of Thoracic Surgery 2009 December;88(6):1882-7; discussion 1887. PMID: 19932255.
9. Achneck HE, **Sileshi B**, Li M, Partington EJ, Peterson DA, Lawson JH. Surgical aspects and biological considerations of arteriovenous fistula placement. Seminars in Dialysis 2010 January;23(1):25-33. PMID: 20331815.
10. Achneck HE, **Sileshi B**, Jamiolkowski RM, Albala DM, Shapiro ML, Lawson JH. A comprehensive review of topical hemostatic agents: Efficacy and recommendations for use. Annals of Surgery 2010 February;251(2):217-28. PMID: 20010084.
11. **Sileshi B**, Achneck H, Ma L, Lawson JH. Application of energy-based technologies and topical hemostatic agents in the management of surgical hemostasis. Vascular 2010 July;18(4):197-204. PMID: 20643029.
12. Achneck HE, **Sileshi B**, Parikh A, Milano CA, Welsby IJ, Lawson JH. Pathophysiology of bleeding and clotting in the cardiac surgery patient: From vascular endothelium to circulatory assist device surface. Circulation 2010 November;122(20):2068-77. PMID: 21098468.
13. Achneck HE, Jamiolkowski RM, Jantzen AE, Haseltine JM, Lane WO, Huang JK, Galinat LJ, Serpe MJ, Lin FH, Li M, Parikh A, Ma L, Chen T, **Sileshi B**, Milano CA, Wallace CS, Stabler TV, Allen JD, Truskey GA, Lawson JH. The biocompatibility of titanium cardiovascular devices seeded with autologous blood-derived endothelial progenitor cells: EPC-seeded antithrombotic Ti implants. Biomaterials 2011 January;32(1):10-8. PMID: 20926131 PMID: PMC4062098.
14. Allen JD, Ham KL, Dumont DM, **Sileshi B**, Trahey GE, Dahl JJ. The development and potential of acoustic radiation force impulse (ARFI) imaging for carotid artery plaque characterization. Vascular Medicine (London, England) 2011 August;16(4):302-11. PMID: 21447606 PMID: PMC3265036.
15. Bradford WT, Arora H, Sheridan BC, **Sileshi B**, Kumar PA. A left atrial mass in a middle-aged woman: Just another myxoma? Journal of Cardiothoracic and Vascular Anesthesia 2013 August;27(4):816-8. PMID: 22560066.
16. **Sileshi B**, Shaw A. Sepsis: Protocolized care for critically ill patients with AKI. Nature reviews. Nephrology 2015 January;11(1):10-1. PMID: 25366042.
17. **Sileshi B**, Haglund NA, Davis ME, Tricarico NM, Stulak JM, Khalpey Z, Danter MR, Deegan R, Kennedy J, Keebler ME, Maltais S. In-hospital outcomes of a minimally invasive off-pump left thoracotomy approach using a centrifugal continuous-flow left ventricular assist device. The Journal of Heart and Lung Transplantation 2015 January;34(1):107-12. PMID: 25447579.
18. **Sileshi B**, Hocking KM, Boyer RB, Baudenbacher FJ, Kohorst KL, Brophy CM, Eagle S. Peripheral venous waveform analysis for detecting early hemorrhage: A pilot study. Intensive Care Medicine 2015 June;41(6):1147-8. PMID: 25862041.
19. Hocking KM, **Sileshi B**, Baudenbacher FJ, Boyer RB, Kohorst KL, Brophy CM, Eagle SS. Peripheral venous waveform analysis for detecting hemorrhage and iatrogenic volume overload in a porcine model. Shock (Augusta, Ga.) 2016 March; PMID: 27070329.
20. **Sileshi B**, O'Hara BK, Davis ME, Haglund NA, Meng X, Deegan R, Stulak JM, Kushwaha SS, Shaw A, Maltais S. Outcomes of patients implanted using a left thoracotomy technique for a miniaturized centrifugal continuous-flow pump. ASAIO Journal 2016 June; PMID: 27347709.
21. Hocking KM, **Sileshi B**, Baudenbacher FJ, Boyer RB, Kohorst KL, Brophy CM, Eagle SS. Peripheral venous waveform analysis for detecting hemorrhage and iatrogenic volume overload in a porcine model. Shock (Augusta, Ga.) 2016 October;46(4) PMID: 27070329.
22. Lopez MG, Pretorius M, Shotwell MS, Deegan R, Eagle SS, Bennett JM, **Sileshi B**, Liang Y, Gelfand BJ, Kingeter AJ, Siegrist KK, Lombard FW, Richburg TM, Fornero DA, Shaw AD, Hernandez A, Billings FT. The risk

- of oxygen during cardiac surgery (ROCS) trial: Study protocol for a randomized clinical trial. Trials 2017 June;18(1) PMID: 28651648 PMCID: PMC5485572.
23. Bennett JM, **Sileshi B**. Incorrect diagnosis of type an aortic dissection attributed to motion artifact during computed tomographic angiography: A case report. A & A Case Reports 2017 July; PMID: 28691983.
 24. **Sileshi B**, Newton MW, Kiptanui J, Shotwell MS, Wanderer JP, Mungai M, Scherdin J, Harris PA, Vermund SH, Sandberg WS, McEvoy MD. Monitoring anesthesia care delivery and perioperative mortality in Kenya utilizing a provider-driven novel data collection tool. Anesthesiology 2017 August;127(2) PMID: 28657959 PMCID: PMC5519082.
 25. Liang Y, **Sileshi B**, Kaiser CA, Pretorius M, Shaw AD. A left ventricle to left atrial appendage fistula after mitral valve replacement. Anesthesia and Analgesia 2017 October; PMID: 29077612.
 26. Liang Y, **Sileshi B**, Kaiser CA, Pretorius M, Shaw AD. A left ventricle to left atrial appendage fistula after mitral valve replacement. A&A Practice 2018 Mar 1;10(5):121-123. PMID: 29611829.
 27. Alexander LA, Newton MW, McEvoy KG, Newton MJ, Mungai M, DiMiceli-Zsigmond Mi, **Sileshi B**, Watkins SC, McEvoy MD. Development and pilot testing of a context-relevant safe anesthesia checklist for cesarean delivery in east Africa. Anesthesia and Analgesia 2019 May;128(5):993-998.
 28. Umetesi G, McEvoy MD, Starnes JR, **Sileshi B**, Atieli HE, Onyango K, Newton MW. Safe anesthesia care in western Kenya: A preliminary assessment of the impact of nurse anesthetists at multiple levels of government hospitals. Anesthesia & Analgesia 2019 June 12; PMID: 31206426.
 29. Newton MW, Hurt SE, McEvoy MD, Shi Y, Shotwell MS, Kamau J, Nabulindo S, Ngumi ZW, Sandberg WS, **Sileshi B**. Pediatric perioperative mortality in Kenya: A prospective cohort study from twenty-four hospitals. Anesthesiology. 2019 Dec 3; PMID: 31809324.

Non-Peer Reviewed Articles

1. **Sileshi B**, Tadesse M, Berhane H, Kynes JM. ImpACT: Achieving Equity in Anesthesia Education for East Africa. Anesthesia Monitor. February 2021.

Book Chapters

1. **Sileshi B**, Lawson JH. Coagulopathy and Hemorrhage. Rutherford Vascular Surgery. Editors: Jack L. Cronenwett, MD and Wayne Johnston. Saunders; 2010 June;7th Edition ISBN: 978-1-4160-5223-4.
2. Kingeter A, **Sileshi B**. Aortic Disruption. Advanced Perioperative Crisis Management. Editors: McEvoy MD, Furse CM. New York, New York, United States; Oxford University Press:2017.

Multimedia Educational Materials

1. pECHO – A Perioperative echocardiography app designed with the intraoperative echocardiographer in mind. Co-creator- Mark Gutierrez. 2015.

Videos

1. O'Hara, B, Sileshi, B. The Heart Valves. ImpACT Africa Learning Management System. Feb 2015
2. Keohane, A, Sileshi, B. Blood Brain Barrier, CSF, ICP. ImpACT Africa Learning Management System. Feb 2015
3. Clark, N, Sileshi, B,. Renal Blood Flow, GFR / The Nephron / Renal Sodium Handling, Fluid Management. ImpACT Africa Learning Management System. Feb 2015
4. Mudrick, T, Sileshi, B. The Autonomic Nervous System / Hepatitis and Cirrhosis. ImpACT Africa Learning Management System. Mar 2015
5. Janda, A, Sileshi, B. Acid Base Physiology / Determinants of Ventricular Performance. ImpACT Africa Learning Management System. Mar 2015
6. Montalto, T, Sileshi, B. Anatomy of Brain and the Nervous System. ImpACT Africa Learning Management System. Mar 2015
7. Kynes, M, Sileshi, B. Anesthesia for Spine Surgery. ImpACT Africa Learning Management System. Apr 2015

8. Myler, C, Sileshi, B. Composition of Blood / Coagulation System / Sensory Neurophysiology. ImpACT Africa Learning Management System. May 2015
9. Jensen, M, Sileshi, B. Cerebral Physiology-Effect of Anesthetic Agents. ImpACT Africa Learning Management System May 2015
10. Pagel, T, Sileshi, B. Liver Anatomy / Liver Function. ImpACT Africa Learning Management System. May 2015
11. Lopez, M, Sileshi, B. Motor Neurophysiology. ImpACT Africa Learning Management System. May 2015
12. Meyer, C, Sileshi, B. Regulation of Cerebral Flow. ImpACT Africa Learning Management System. May 2015
13. Hansen, J, Sileshi, B. Renal Physiology Review / Altered Renal Function and Effects of Anesthesia / Effects of Anesthesia on Renal Function. ImpACT Africa Learning Management System. June 2015
14. Jensen, M, Sileshi, B. Cerebral Physiology Review. ImpACT Africa Learning Management System. June 2015
15. Musee, J, Sileshi, B. ECG – Normal / ECG – Abnormal Findings. ImpACT Africa Learning Management System. Sept 2015.
16. Sedlak, R, Sileshi, B. Ischemic Heart Disease – Perioperative Management. ImpACT Africa Learning Management System. Jan 2016.
17. Sileshi, B. Arrhythmias – Perioperative Management. ImpACT Africa Learning Management System. Jan 2016.
18. Crockett, C, Sileshi, B. Mitral Valve Stenosis, Regurgitation Management. ImpACT Africa Learning Management System. Feb 2016.
19. Sedlak, R, Sileshi, B. Physiology of Electrolyte Balance. ImpACT Africa Learning Management System. Feb 2016.
20. Desai, R, Sileshi, B. Disorders of Water Balance / Hepatic Physiology Review. ImpACT Africa Learning Management System. Feb 2016.
21. Trahan, J, Sileshi, B. Introduction to Chronic Pain / Selected Pain Syndromes. ImpACT Africa Learning Management System. Aug 2016.
22. Richburg, T, Sileshi, B. Anesthesia for ENT Surgery / Anesthesia for Ophthalmic Surgery / Local Anesthetics – Specific Agents. ImpACT Africa Learning Management System. Jan 2017.
23. Richburg, T, Sileshi, B. Neuromuscular Agents – Introduction to Depolarizing Agents / Introduction to Non Depolarizing Agents / Perioperative Management of the Diabetic Patient. ImpACT Africa Learning Management System. Feb 2017.
24. Richburg, T, Sileshi, B. Respiratory Physiology – Effects of Anesthesia. ImpACT Africa Learning Management System. June 2017.
25. Sileshi, B. Introduction to Teaching – ImpACT Africa Anesthesia Educators Training of Training Course. 10/2020.
26. Sileshi, B. Introduction to Learning Theories - ImpACT Africa Anesthesia Educators Training of Training Course. 10/2020.
27. Sileshi, B. Teaching Methodologies I: Effective PowerPoint presentation - ImpACT Africa Anesthesia Educators Training of Training Course. 11/2020.
28. Sileshi, B. Teaching Methodologies II: Problem Based Learning Discussion - ImpACT Africa Anesthesia Educators Training of Training Course. 11/2020.
29. Sileshi, B. Teaching Methodologies III: Flipped Classroom Model - ImpACT Africa Anesthesia Educators Training of Training Course. 01/2021.

Problem Based Learning Discussions

1. Niconchuk, J, Sileshi, B. ACLS. ImpACT Africa Learning Management System. Dec 2016
2. Niconchuk, J, Sileshi, B. ECG Interpretation. ImpACT Africa Learning Management System. Dec 2016
3. Meredith, K, Sileshi, B. Basic Arrhythmias and Anesthesia. ImpACT Africa Learning Management System. Apr 2017
4. Meredith, K, Sileshi, B. Cardiogenic Shock and Ischemic Disease. ImpACT Africa Learning Management System. Apr 2017.
5. Gruner, D, Sileshi, B. Valvular Disorders. ImpACT Africa Learning Management System. Jan 2017
6. Janda, A, Sileshi, B. Thoracic Anesthesia and One-Lung Ventilation. ImpACT Africa Learning Management System. Apr 2017
7. Sedlak, R, Sileshi, B. Sodium Disorders. ImpACT Africa Learning Management System. Apr 2017

Presentations

Presentations at Scientific Meetings

1. Sileshi B, Evans D, Giangiacomo D, Achneck H, Manson R, Onaitis M, Lawson JH. North and South Carolina Chapters of American College of Surgeons Annual Scientific Meeting; Isle of Palms, SC. 2008 Jul; Identification of Specific Morphologic Disease States in Peripheral Arterial Disease using Genomic Profiling.
2. Hughes GC, Daneshmand MA, Balsara KR, Achneck HA, Sileshi B, Lee SM, McCann RL. Southern Thoracic Surgical Association Annual Meeting; Austin, TX. 2008 Nov; Hybrid Repair of Aneurysms of the Transverse Aortic Arch: Mid-Term Results.
3. Sileshi B, Evans D, Giangiacomo D, Achneck H, Manson R, Onaitis M, Lawson JH. 4th Annual Academic Surgical Congress; Fort Myers, FL. 2009 Feb; Genomic Profiling of Stages of Atherosclerosis in Peripheral Arterial Disease.
4. Sileshi B, Evans DC, Giangiacomo DM, Achneck HE, Manson RJ, Dibernardo L, Lawson JH. Atherosclerosis, Thrombosis and Vascular Biology 2009 Annual Conference; Washington DC. 2009 Apr; Characterization of Progression of Atherosclerosis in Patients with Peripheral Artery Disease using Genomic Profiling.
5. Sileshi B, Trani J, Stinnett SS, Miller MJ, Shortell CK. Society of Vascular Surgery 2009 Annual Meeting; Denver, CO. 2009 May; Underlying Comorbidities are More Important than Procedure Type in Determining Outcomes Following Intervention for Critical Limb Ischemia.
6. Sileshi B, Hardman HD. North Carolina Society of Anesthesiologists (NCSA) 2011 Annual Meeting; Asheville, NC. 2011 Sep; The Economic and Patient Safety Benefits of Rescue TEE in Non-Cardiac Anesthesia.
7. Sileshi B, Hardman HD. American Society of Anesthesiologists (ASA) 2011 Annual Conference; Chicago, IL. 2011 Oct; The Economic and Patient Safety Benefits of Rescue TEE in Non-Cardiac Anesthesia: A Tale of 3 Cases.
8. Sileshi B, Brandon M, Kumar P, Kyle R, Arora H. ASA 2011 Annual Meeting; Chicago, IL. 2011 Oct; Rescue Lumbar Drain Placement in a Complex Type B Dissection Repair.
9. Sileshi B, Kumar P. Society of Cardiothoracic Anesthesiologists (SCA) 2013 Annual Meeting; Miami, FL. 2013 Apr; Incidental Finding of a Double Inter-Atrial Septum During Mitral Valve Repair.
10. Sileshi B, Davis ME, Haglund N, Nian H, Kennedy J, Deegan R, Keebler M, Maltais S. International Society for Heart and Lung Transplantation 2014 Annual Conference; San Diego, CA. 2014 Apr 10; Can a Minimally Invasive Off-Pump Implantation Strategy be Considered Safe for Selected Patients Undergoing HeartWare Ventricular Assist Device Implantation?
11. Sileshi B, Deegan R, Davis MS, Haglund N, Hui N, Kennedy J, Keebler MD, Thompson A, Maltais S. SCA 2014 Annual Meeting; New Orleans, LA. 2014 Apr 12; Off-Pump Minimally Invasive Implantation of HeartWare Ventricular Assist Device: Anesthetic Considerations.
12. Sileshi B, Maltais S, Kennedy J, Deegan R. SCA 2014 Annual Meeting; New Orleans, LA. 2014 Apr 14; A Simple Maneuver Greatly Reduces Intracardiac Air in Off-Pump Placement of HeartWare Left Ventricular Assist Device.
13. Newton M, Sileshi B, Mungai M, Njorge M, Kiptanui J, Sandberg W, McEvoy MD. Consortium of Universities for Global Health (CUGH) 2015 Annual Meeting; Boston, MA. 2015 Mar 26; Operative Trauma in a Tertiary Care Center in Kenya: Detailed Causality, Demographics, and Mortality.
14. Sileshi B, McEvoy MD, Wanderer J, Njunge A, Kiptanui J, Scherdin J, Sandberg W, Newton M. CUGH 2015 Annual Conference; Boston, MA. 2015 Mar 27; Surgical Apgar Score and Safe Surgery Checklist Use in Kenya: Preliminary Results of Over 3,000 Cases at a Single Tertiary Care Center.
15. Sileshi B, Hocking K, Boyer R, Baudenbacher F, Shaw A, Eagle S. Association of University Anesthesiologists (AUA) 2015 Annual Meeting; Nashville, TN. 2015 Apr 24; Peripheral Venous Waveform Analysis for Detecting Acute Intraoperative Blood Loss.
16. Sileshi B, Newton M, Mungai M, Scherdin J, Sandberg WS, McEvoy MD. AUA 2015 Annual Meeting; Nashville, TN. 2015 Apr 25; Implementation of a Novel Data Collection Tool in a Low and Middle-income Country.
17. Sileshi B, Newton MW, Mungai M, Kiptanui J, Scherdin J, Sandberg WS, McEvoy MD. ASA Annual Meeting. San Diego, CA. 2015 Oct; Definin Anesthesia Care Delivery and Perioperative Mortality Rate in Kenya: Implementation of a Novel Data Collection Tool and Early Results from a Tertiary Hospital.
18. Sileshi B, McEvoy MD, Sandberg WS, Newton MW, Gikonyo L. ASA Annual Meeting. San Diego, CA. 2015 Oct; Creation of a Safe Anesthesia Checklist for Caesarean Section in East Africa.
19. Musee J, B. Sileshi B. ASA Annual Meeting. San Diego, CA. 2015 Oct; Pulsus Paradoxus without Electrical Alterans in Acute Type A Aortic Dissection and Cardiac Tamponade.
20. Henry M. SCA 2016. San Diego, CA. 2016 Apr; Transcaval Approach to Transcatheter Aortic Valve Replacement for Treatment of Prosthetic Aortic Stenosis in a Patient with Simulaneous Prosthetic Mitral Value Stenosis.

21. Sileshi B, Hurt SE, McEvoy MD, Kimeto J, Scherдин J, Sandberg WS, Newton MW. CUGH Annual Meeting. San Francisco, CA. 2016 Apr; Pediatric Perioperative Mortality Rates in a Sample of Kenyan Hospitals: Preliminary Results in Over 3,000 Cases.
22. Sileshi B, Newton M. Association of University Anesthesiologists' (AUA) 64th Annual Meeting. Washington DC. 2017 May; Monitoring Pediatric Perioperative Anesthesia Care and Mortality Rates in a Sample of Kenyan Hospitals: Initial Results from over 5,000 cases.
23. Kynes JM, Newton M, Niconchuk J, Nabulindo S, Ngumi ZW, McEvoy MD, Sileshi B. CUGH 2018 Annual Meeting; New York, NY. 2018 Mar 17; A profile of Trauma Care at Lower and Upper Level Hospitals in Kenya.
24. Rhee M, Eagle S, Sileshi B. SCA Annual Meeting, Phoenix, AZ. 2018 Apr 28; Systemic Right Ventricular Assist Device Placement in a Patient with Mustard Repair for Transposition of the Great Arteries.
25. Kynes JM, Newton M, Niconchuk J, Nabulindo S, Ngumi ZW, McEvoy MD, Sileshi B. AUA / IARS Annual Meeting. 2018 Apr 30; The Impact of Access and Resource Deficiencies on Trauma Care in Kenya.
26. Rose E, Martin M, Sileshi B, et al. CUGH Annual Meeting. 2019 Mar 8. Development of a Research Methodology Course Using a Blended Learning Format and Digitized Modules for Use in Low-Resourced Settings.
27. Henley M, Sileshi B, Eagle S. SCA Annual Meeting. 2019 May 18. Large Cardiac Mass in a Patient Undergoing Urgent Left Ventricular Assist Device Implantation.
28. Martin SA, Lefevre R, Sileshi B. ASA Annual Meeting. 2019 Oct. Massive Coronary Artery Aneurysm in Saphenous Vein Graft.
29. Cummings J, Sileshi B. SCA Annual Meeting. 2020 Apr (Cancelled due to COVID). Acute PE in a Patient with Undiagnosed CTEPH who Underwent Endarterectomy Complicated by significant SAM.
30. Hicks M, Tadesse M, Bellomy M, Deegan RJ, Fults J, Getulio R de Oliveira Filho, Abate A, Kinfe M, McEvoy M, Hernandez A and Sileshi B. CUGH Annual Meeting, 2020 Apr (cancelled due to COVID). The Use of portable ultrasound in low resource settings to aid in assessment of perioperative and intensive care patients.
31. Sileshi B, Kynes JM, Kamau J, Nabulindo L, Shotwell M, Shi Y, McEvoy MD, Newton M. World Congress of Anesthesiology Meeting. 2021 September. The Surgical APGAR Score Predicts seven-day postoperative mortality for a prospective cohort in Kenya.
32. Sileshi B, Danley M, Berhane H, Asfaw G, Bitew R, Kibrof M, Tesfaye G, McEvoy MD, Newton M. World Congress of Anesthesiology Meeting. 2021 September. Preliminary Surgical and Anesthesia Perioperative Outcomes from Two Referral Hospitals in Ethiopia.
33. Kynes JM, Richburg T, Larosa S, McEvoy K, Kim SM, Oliveira Filho GR, Kaptanui J, Nega A, Muchai S, Fowler L, Martin M, Rose E, Newton M, McEvoy MD, Sileshi B. World Congress of Anesthesiology Meeting. 2021 September. The Implementation and Utilization of an Anesthesia Learning management system in two low resource settings.
34. Sileshi B, Umutesi G, Mizero J, Ntirandeka C, Kamau J, Munyuzangabo M, Mazimpaka C, Shyirambere C, Getete J, Nsabyamahoro E, Ntihabose AP, Jacques S, Newton M, Mubiligi J, Riviello R, Kateer F. CUGH Annual Meeting. 2021 March. Global Perioperative Outcome Assessment at Three Rural Rwanda District Hospitals.
35. Mizero J, Umutesi G, Mirand E, Cubaka V, Nsengiyumva T, Nsabyamahoro E, Ntihabose A, Jacques S, Mazimpaka C, Shyirambere C, Gatete J, Newton M, Sileshi B, Mubiligi J, Kateera F, Riviello R. CUGH Annual Meeting. 2021 March. A qualitative study on the key factors affecting the surgical and anesthesia providers' ability to provide safe, affordable and timely care at 3 rural Rwandan facilities.
36. Umutesi G, Kateera F, Mizero J, Nshimyiryo A, Nsengiyumva T, Miranda E, Kamau J, Munyuzanga o M, Mazimpaka C, Shyirambere C, Gatete J, Nsabyamahoro E, Ntihabose P, Bizimnana S, Newton M, Sileshi B, Riviello R, Mubiligi J. CUGH Annual Meeting. 2021 March. Essential Surgical and Anesthesia Care in rural Rwandan district hospitals: A crucial investment towards achieving the universal health care coverage.
37. Baumgarten A, Woolard A, Streff A, Sileshi B. SCA Annual Meeting. 2021, April. Pulmonary Embolus, Refractory hemorrhage, and extreme obesity in a laboring woman: a challenging triad.
38. Rissi K, Cumming J, Sileshi B. SCA Annual Meeting. 2021, April. Systolic Anterior Motion of the mitral valve complicating emergent pulmonary endarterectomy in a patient with undiagnosed chronic thromboembolic pulmonary hypertension.
39. Spradling C, Etanaa N, Asfaw G, Desta H, Posey C, de Oliveira Filho g, Endeshaw A, Tesfaye G, Binwe K, Gebremedhin H, Kunie F, Mossie M, Mekbib H, Abay A, Tsegaw A, Newton M, Sileshi B. Vanderbilt Institute Global Health Annual Symposium, 2021, April. Assessing Participant Satisfaction and Knowledge Acquisition after Implementation of a Hybrid Simulation Course among Maternal and Neonatal Healthcare Providers in Ethiopia.
40. Alshibli, A, Teklehaimanot MG, Seyoum R, Tegu G, Desta H, Tesfaye G, Tsegaw A, Abay A, Etanaa N, Mossie M, Binwe K, Tarekegn F, Gebremedhin H, Newton M, Sileshi B. Vanderbilt Institute Global Health Annual

Symposium, 2021, April. Impact of the Covid-19 Pandemic on Surgical Care and Outcomes at Two Tertiary Hospitals in Ethiopia.

Invited Presentation - Local

1. 11th Annual Anesthesiology Research Symposium. Vanderbilt Department of Anesthesiology; Nashville, TN. 2015 May 1; Defining Perioperative Morbidity and Mortality in Kenya: Implementation and Early Results of a Novel Data Collection Tool.
2. Redcap Research Day. Nashville, TN. 2016 May 2; Defining Perioperative Morbidity and Mortality in Kenya: Implementation and Early Results.
3. World Health Week. Vanderbilt Institute for Global Health, Nashville TN. 2019 Feb 27; Educational Capacity Building in Low Resource Settings.

Invited Presentation - Regional

1. Tennessee Perfusion Society Annual Conference. TN. Oct 2016. Vasoplegia and Vitamin B12.
2. Southern University Departments Anesthesia Chairs Annual Meeting. Apr 2016. A Departmental Model of Capacity Building in LMICs: Vanderbilt International Anesthesia.
3. Tennessee Society of Anesthesiologists Annual Conference, Nashville, TN. Feb 2019. Should Anesthesiologists Program Pacemakers and ICDs Perioperatively?

Invited Presentation - International

1. 5th Annual Kijabe Hospital Anesthesia Educational Conference. Kisumu, Kenya. 06/16/2015. Perioperative management of hypertension, Perioperative management of arrhythmias, and Perioperative management of aortic and mitral valve disease.
2. University of Nairobi, Department of Anesthesiology Meeting. Nairobi, Kenya. 06/13/2016. Perioperative mortality rate collection implementation in Kenya: Kijabe as a case study.
3. Kenya Registered Nurse Association Annual Meeting. Elementaita, Kenya. 06/16/2016. Perioperative management of hypertension, ECG interpretation and arrhythmia management, Perioperative management of heart failure, and Defining perioperative morbidity and mortality in Kenya.
4. Education capacity building model. Ethiopia Anesthesia Road Map Summit. Addis Ababa, Ethiopia, 11/16/2016.
5. Kenyan Society of Anesthesiologists. Nairobi, Kenya, 06/12/2017. Status of national perioperative data collection in Kenya-Lessons learned.
6. Kenya Registered Nurse Anesthetists Annual Meeting. Kisumu, Kenya, 06/15/2017. Cardiogenic shock and vasopressors/inotropes in the treatment of shock.
7. Ethiopian Society of Anesthesiologists 9th Annual Meeting. Addis Ababa, Ethiopia. 06/09/2018. High-Income and low-income institutions partnership in building education capacity and Management of thoracic emergencies.
8. Kenyan Society of Nurse Anesthetists 7th Annual Conference. Mombasa, Kenya. 06/14/2018. Thoracic emergencies - Management strategies.
9. Ethiopian Society of Anesthesiologists 10th Annual Meeting, Addis Ababa, Ethiopia, 06/20/2019. Pain management for thoracic surgery.

Panel Presentations

1. IMSH - Society for Simulation in Healthcare Annual Meeting. Los Angeles, CA. 2018 Jan 16; Building Anesthesia Educational Capacity Building in Low Income Settings - A Novice's Quest.
2. CUGH Annual Conference, New York, NY. 2018 Mar 15; Surgical Ecosystem - Capacity Building in Anesthesia Care in Low Resource Settings.

Internal Grand Rounds

1. Anesthesiology Grand Rounds. Nashville, TN. 2017 Jun 23; Cardiovascular Implantable Electronic Devices: Perioperative Management.
2. Anesthesiology Grand Rounds. Nashville, TN. 2019 March 15; Educational Capacity Building in Low- and Middle-Income Countries – A Department’s Approach.
3. Surgical Services Quarterly Quality Improvement Conference. Nashville, TN. 2020 December 4; Pacemakers in the Perioperative Setting.

External Grand Rounds

1. University of North Carolina, Department of Anesthesiology; Chapel Hill, NC. 2018 Mar 21; Building Educational Capacity in Low Income Settings - An Institution's Experience.
2. Ohio State University, Department of Anesthesiology; Columbus, OH. 2019 April 18; Educational Capacity Building in Low and Middle-Income Countries – A Department’s Approach.
3. Brigham and Women’s Hospital, Department of Anesthesiology; Boston, MA. 2019 September 11; Educational Capacity Building in Low Resource Centers – An Institutions Approach.
4. University of Texas Health Science Center at Houston, Department of Anesthesiology; Houston, TX. 2020 March 5; Impacting Anesthesia Workforce in Low Resource Settings Through Education Capacity Building Efforts.
5. Program in Global Surgery and Social Change, Harvard, Boston, MA (Virtual presentation) 2021 April 15; Safe Surgery and Perioperative Assessment in Rwanda.

Workshops - Internal

1. Point of Care Ultrasound Workshop
 - Vanderbilt Anesthesiology Residents Boot Camp. Nashville, TN. 05/2019.
 - Vanderbilt Critical Care Fellows Boot Camp, Nashville, TN. 08/24/2019.
2. Perioperative CIED Device Management
 - Vanderbilt Cardiothoracic Anesthesiology Faculty. Nashville, TN. 10/2014.
 - Vanderbilt Cardiothoracic Anesthesiology Fellows. Nashville, TN. 09/15, 09/16, 09/17, 09/18, 09/19.
 - Vanderbilt Perioperative Service and Fellow. Nashville, TN. 09/19.

Workshops - International

1. Basic ECG Interpretation Workshop
 - Kenyan Registered Nurse Anesthetists Annual Meeting. Kisumu, Kenya, 06/15/2017. Mombasa, Kenya, 06/14/2018.
 - Ethiopian Society of Anesthesiologists Annual Conference. Addis Ababa, Ethiopia, 06/08/2018, and 06/20/2019.
2. Advanced ECG Interpretation Workshop
 - Kenyan Registered Nurse Anesthetists Annual Meeting. Kisumu, Kenya, 06/15/2017. Mombasa, Kenya, 06/14/2018.
 - Ethiopian Society of Anesthesiologists Annual Conference. Ethiopian Society of Anesthesiologists; Addis Ababa, Ethiopia, 06/08/2018, and 06/20/2019.
3. Point of Care Ultrasound Workshop
 - Addis Ababa University Anesthesiology Faculty and Residents. Addis Ababa, Ethiopia, 06/17-06/28/2019.