

**3RD ANNUAL
RESEARCH DAY**

**AT KIJABE HOSPITAL
WE DO RESEARCH.**

MARCH 17, 2023

THE ITINERARY

Event starts at 7am(Tea will be provided)|
Raffle prize drawing for all who arrive on time|
Prize for best poster

CONTACT

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Welcome Note

Welcome to 3rd Annual Kijabe Research Day, a day set apart to recognize and celebrate all the ways Kijabe Hospital is advancing the conversation on improving the quality of care, developing training for health care workers, and utilizing local data to address health care needs on the continent.

Come Learn About

WHO is doing research and quality improvement work at Kijabe.

WHAT type of things are they doing.

and

HOW to get involved in getting answers to questions that matter to you.

Poster presentation sessions for Kijabe Research Day are designed to showcase work being done as well as provide a learning opportunity for ALL; consultants, trainees, residents, staff from clinical, nursing, finance, human resources, housekeeping, security, and the Kijabe College of Health Science.

Poster Presentations will have 5 thematic tracks, these include;

- Recently published work
- Completed research projects
- Quality Improvement Projects
- Medical education and training programs
- Work in progress (both quality improvement and research focused)

Best Category of each thematic groups will be awarded!!!

Research Day Program

Time	Event	Facilitator
7:00 - 7:05 am	Prayer/Opening ceremony	Dr Pete Halestrap
7:05 – 7:10 am	Introduction to Kijabe Research department	Dr Mary Adam
7:10 – 7:15am	Raffle tickets award	
7:15 – 8:00am	Oral Presentation	
8:00 – 8:30am	Special guest's celebrities' interviews	Dr Pete Halestrap
8:30-10:30 am	Poster for judging [everyone with posters will be required to stand next to their poster]	
12:30 -1:30 pm	Lunch time interactions for thematic groups discussion	
	AMR Stewardship	
	Prof. Rodney D. Adam, Dr Lilian Musila, , ,Dr Maina Watson and Dr. Imma Barasa(Moderators)	
	Clinical Trials(The Good, the Bad & the Ugly)	
	Dr. Felix Riunga, Dr. Cyrus Mugo, Dr George Otieno,Dr Mary Adam(Moderator)	
	Innovations and Medical Education Training	
	Prof. Rondi Kauffmann, Mr Elijah Ntomariu, Dr Peris Kiarie and Dr Peter Halestrap Moderators	
1:30 – 1:45pm	Share a Cake and Closing ceremony	Dr Peris Kiarie
	Note: Poster will be available for viewing the whole day	



Prof. Rondi Kauffmann,

Rondi Kauffmann, MD, MPH, FACS is an Associate Professor of Surgery at Vanderbilt University Medical Center. She graduated summa cum laude with a B.S. in Physiological Sciences from UCLA, and completed her MD/MPH degrees at the University of Minnesota. She is board certified in General Surgery (residency: Vanderbilt University Medical Center) and Complex Surgical Oncology (fellowship: City of Hope Comprehensive Cancer Center). Her clinical expertise is in the care of patients with melanoma, soft tissue malignancies, and breast cancer. She is the Surgical Director of Vanderbilt's Center for Experiential Learning and Assessment, Associate Program Director for the general surgery residency program, Director of the Vanderbilt Global Health Equity and Access Leadership in Surgery program, Vice Chair for Global Surgery in the Section of Surgical Sciences, and directs Vanderbilt International Surgery's collaborative efforts with AIC Kijabe Hospital in Kijabe, Kenya. Her research efforts focus on global surgery and global surgical education. She lives with her husband and three children on a farm in Burns, TN.



Dr. Lilian Musila

Dr. Musila is a biomedical research scientist with decades of international research, academic and teaching experience in microbiology, parasitology, human genetics, cancer, virology, developmental and molecular biology. Dr. Musila has two postdoctoral fellowships from the National Laboratory Health Services in South Africa and Emory University in Atlanta, GA, USA. She earned a Ph.D. in Molecular Parasitology from the University of Pennsylvania, Philadelphia, PA, USA, and a B.Sc. Microbiology from the University of Massachusetts, Amherst, MA, USA. In addition, she has Certificates of Epidemiology in Infectious Diseases Research from the University of Florida and Leadership and Management in Health from the University of Washington. Dr. Musila currently works at USAMRD-A, based at the Kenya Medical Research Institute, Nairobi, Kenya, in infectious disease surveillance and research on arboviral and bacterial pathogens, where she has been for the past fourteen years



Prof. Rodney D. Adam

Prof. Rodney D. Adam is an Infectious Disease Specialist with over 35-year work experience. He received his MD degree at the University of Illinois, USA in 1981 and his BA in Mathematics, Chemistry and Biology at Trinity International University, USA in 1976. He completed his training in Internal Medicine and Infectious Diseases as well as laboratory training in Molecular Parasitology before joining the University of Arizona College of Medicine faculty. He joined the department of pathology at Aga Khan University Hospital in 2012 where he has been working in the Microbiology section with a focus on molecular diagnostics, especially related to the diagnosis of infectious diseases. His current research interests include hospital-acquired infections and their prevention. Prof. Adam is interested in the correlation of the intestinal microbiota with a variety of adverse outcomes.



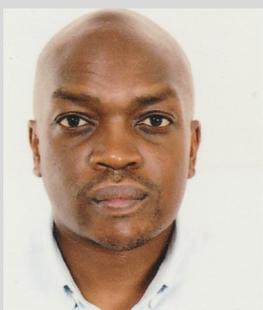
Thomas Tillett

Thomas – Cofounder and CEO of MBF Therapeutics, an immunotherapeutics company that has developed and patented an innovative, proprietary T-Max™ DNA vaccine platform to deliver commercial protective vaccines that provide safe, durable, heterologous protection against endemic, emerging and re-emerging diseases of global concern to livestock and companion animals, with significant translational opportunities in human health. Tom is the founder and Executive Director of Sustained Acts, a Christian non-profit focusing on sustainable projects in Africa and serves on the Friends of Kijabe Hospital Board of Directors. Mr. Tillett was founder, and CEO of RheoGene. As RheoGene CEO, he and his team created the RheoSwitch® Therapeutic System (RTS) that led to the first human clinical trial of a small molecule-induced gene regulation system. In 2007, he successfully completed the merger of RheoGene Inc. with Intrexon Corporation who has continued the development of RTS through a various clinical trials for cancer and other important therapeutic indications. In April, 2019 the FDA announced that the RheoSwitch Therapeutic System for glioma blastoma was approved for Fast Track designation. Mr. Tillett has served on the board of numerous non-profits including; University of North Carolina General Alumni Association, Impact Thrift Stores, Chelten Church Elder Board, and the American School of Paris. He was also elected to the Hatboro-Horsham Hall of Fame in 2017.



Cyrus Mugo, MBChB, MPH, PhD

Dr Mugo is a senior research scientist at Kenyatta National Hospital. He has over ten years of experience in clinical/public health research, clinical practice, and training in the delivery of health services. He has also received training in medicine, global health, epidemiology, and implementation science. Dr Mugo is experienced in designing & managing research projects in HIV prevention, testing, treatment and treatment support, and infectious disease surveillance in Kenya and Nigeria. Highlights of his research work include studies on index case testing for the children and adolescents, implementation strategies for community roll-out of HIV self-testing among adolescents in Kenya, development of tools to guide transition of adolescents from pediatric to independent care; these studies directly informed HIV testing and treatment guidelines and policies in Kenya. Currently he is undertaking studies assessing social factors in adolescent HIV. He has >45 publication in high impact journals. Beyond grant writing, He is involved in mentorship of junior researchers at KNH and research project staff affiliated with KNH.



Dr. Felix Riunga, MBChB, MMed.

Dr. Riunga earned his medical degree from the University of Nairobi in 2006, and his Master of Medicine (Internal Medicine) from the Aga Khan University, Nairobi in 2014. He later pursued specialty training in Infectious Diseases at the Aga Khan University Hospital, Nairobi in conjunction with the University of British Columbia, Vancouver. Currently, Dr. Riunga serves as an Infectious Diseases consultant at the Aga Khan University Hospital, Nairobi. He has been involved in clinical trials involving treatment of COVID-19 with immunomodulation and treatment of HIV with injectable antiretroviral agents.

Thematic Group Discussion

Clinical Trials: the good the bad and the ugly

Clinical trials are often seen as the pinnacle of research and a demonstration of institutional capacity. At their best, participation in a clinical trial grows local researchers, stimulating their creativity and their team's own capacity to learn from data, write it up, and publish what is learned. But clinical trials can also be a double edged sword, poorly planned and implemented by external "brains" who have under budgeted for local realities.

Come learn from Kenyan researchers own experience how to navigate the thrills and chills.

Antimicrobial Stewardship: Unlocking local and global secrets to fighting germs and winning!

Climbing mountains and growing antimicrobial stewardship capacity at an institutional and national level have a lot in common.

Blood, Sweat and Tears-literally

Come and hear how to make thing happen and learn for both failures and successes from experts in IPC and antimicrobial stewardship

Innovations in Medical Education and Research Training: Leaping Barriers and avoiding potholes

Innovation in medical education and research training is a global action space. Just like exploring space itself, you are going where no one has gone before.

Come and learn how to navigate a system seeped in tradition (Medicine and Nursing Education) and how to get the Giant to wake up to new opportunities. Learn from real stories how to LEAP Barriers and Avoid Potholes like: licensing, accreditation, regulatory bodies, faculty who only know one way to do things and most important: how to not give up.

	Recently published work
1	<p>Moving beyond audit: Driving system learning using a novel mortality classification system in a tertiary training hospital in Kenya.</p> <p>Authors: Mardi Steere ; Evelyn Mbugua; Richard E. Davis; Faith Mailu ; Mary B. Adam</p>
2	<p>Evaluation of the National HIV integrated training course at Kijabe hospital, Kiambu County, Kenya</p> <p>Authors: Emmanuel Ndeto ; Margaret Nyongesa ; Gladys Mengich</p>
	Completed research projects
3	<p>Effect of National Health Insurance Fund Compliance Changes on Hospital Revenue</p> <p>Authors: Patrick Waweru, Arianna Shirk MD AIC Kijabe Hospital, Kijabe, Kenya</p>
4	<p>Discharge Outcomes of Extremely Low Birth Weight Neonates at AIC Kijabe Hospital</p> <p>Authors: K-Barasa I, Nginyo TerryAnn</p>
5	<p>Indication and Mortality of patients on Continuous Infusion of Vasopressors in AIC Kijabe Hospital.</p> <p>Authors: Peter Halestrap, MD; Elizabeth Murumba ; Elijah Ntomariu ; Fredrick Ndibaru ;Temoi Remi ; Beatrice Odera ; Josphat Ndungu ; Moses Odhiambo</p>
6	<p>Peripheral vs Central IV Access for Vasopressors – Which Should We Use In Kijabe?</p> <p>Authors: Peter Halestrap, MD; Elizabeth Murumba ; Elijah Ntomariu ; Fredrick Ndibaru ;Temoi Remi ; Beatrice Odera ; Josphat Ndungu ; Moses Odhiambo</p>
7	<p>How Many Vasopressors Should I Use?</p> <p>Authors: Peter Halestrap, MD; Elizabeth Murumba ; Elijah Ntomariu ; Fredrick Ndibaru ;Temoi Remi ; Beatrice Odera ; Josphat Ndungu ; Moses Odhiambo</p>
8	<p>Quality Improvement Project to Minimize Incidences of Incorrect Neonatal Incubator Temperature Settings</p> <p>Authors: Allan Owino, PECCCO, Arianna Shirk MD AIC Kijabe Hospital, Kijabe, Kenya</p>
9	<p>Standardization of Clinical Care in Sub-Saharan Africa: Case for Hypospadias Surgery</p> <p>Authors: Mehret Desalegn MD, Moses Odhiambo, Ken Muma, MD, MBA FCS (ECSA) Pediatric surgery</p>
10	<p>Feeding Practices and Nutrition Status of Infants with Orofacial Clefts Attending AIC Kijabe Hospitals</p> <p>Authors: Maina .W, Annastacia, Chagwira .M</p>

11	<p>Pediatric Central Venous Catheters: One Year Experience at AIC Kijabe Hospital Authors: Muse Freneh, MD; Alexander S. Mina,; Moses Odhiambo; Britney L. Grayson, MD, PhD</p>
12	<p>Reducing Preoperative anxiety in paediatric patients using virtual reality Authors: Jennifer Connell; Muse Freneh, MD; Thomas Jon Caruso; Eunice Kageha; Rebecca Dufe,; Gregory Sund, MD; J Matthew Kynes, MD; Maziar Nourian , MD</p>
13	<p>A study to demonstrate the incidence of Acute Kidney Injury in Severe Sepsis and Septic shock requiring dialysis in the Intensive Care Unit at AIC Kijabe Hospital Author: Betty Mwangi, MD</p>
14	<p>How do Somali refugees with disabilities living in the Dadaab refugee camp experience occupational disruption from an occupational and intersectional perspective; a Short-term ethnography study Author: Lizzie Andare ; Margarita Mondaca</p>
15	<p>Retrospective Analysis of the Outcomes of Cholecystectomies Done at AIC Kijabe Hospital Authors: Dr Vallery Logedi, Dr Jack Barasa</p>
16	<p>Pre-Treatment Diagnostic Cascade of TB in low resource centers. Authors: Miima M.; Ntomariu E.; Odhiambo M.</p>
17	<p>Association of Patient Characteristics and Tuberculosis in Kenyan Peri urban Health Facilities; Cross-sectional Study Authors: Miima M. ; Ntomariu E. ; Odhiambo M.</p>
	<p>Medical education and training programs</p>
18	<p>Improving Patient Education in Type 2 Diabetes Authors: Dr Katy Linley, Moses Odhiambo, Belinda Kibet, Dorcas Wandia, Elijah Mungathia, Dr Elijah Yulu, Emmanuel Ndeto</p>
19	<p>An online platform to support continuous professional development (CPD) for healthcare worker in Kenya Authors: Elijah Mungathia Misheck; Peter Halestrap; Millicent Muthoni; Bernice Njoroge; Kenneth Miriti; Ibrahim wako; Jon Fielder</p>
20	<p>Innovative Training Program in Paediatric Emergency and Critical Care among Clinical Officers (PECCCO) In a Tertiary Care Hospital. Authors: Bob Okeyo, RCO, MPECC, Arianna Shirk MD AIC Kijabe Hospital, Kijabe, Kenya.</p>

	Quality Improvement Projects
21	The Implementation of a Volume Limited Zero-Hour Fasting Policy Decreases NPO Time Without Increasing Adverse Respiratory Events Authors: Dimingo Gomez MD, Alexander Mina, BS, Matthew Kynes, MD, Jason Axt, MD, MPH
22	Prevention of illegal Dumping in Kamuchira and Muthaiga Communities Authors: Hellen Olum, Venic Kemuma, Joseph Kariuki, Daniel Mbugua, John Kamweru and John Obure
23	Abolishing Routine RBS and Encouraging Routine HgbA1C in our Diabetic Clinic: A Quality Improvement Project Authors: Paul Mwangi, RCO; Irene Muthoni, RCO; Stella Kavugwi, RCO; Stella Wangui; RCO; Emmanuel Ndeto; Esther Njoki; Belinda Kibet; Bartholmew Nyaga; Stella Kibet MD; Dr. Kaya Belknap, MD; Mary Adam MD, PhD
24	Hypertension Control in DM Patients in Kimende Orthodox MHC: A Quality Improvement Project Authors: Patrick Kamau; Monica Gitau; Beatrice Musabi; Beth Karingi; James Wambugu; Margaret Maina; Stella Kibet MD; Dr. Kaya Belknap, MD; Mary Adam MD, PhD
25	Reducing Defaulter Rates in DM Clinic: A Quality Improvement Project at PCEA Chogoria Hospital Authors: Shadrack Beren; Sylvia Obiny; Brian Mutea; Sheila Collins; Sylvia Mumbi; Stella Kibet MD ; Felix Mulago MD; Kaya Belknap MD; Mary Adam MD, PhD
26	CARING FOR THOSE WHO CARE Authors: Moses Odhiambo; Grace Njoroge; Emanuel Ndeto; Elijah Ntomariu; Kaya Belknap, MD
	Work in progress (both quality improvement and research focused)
27	Clinical Characteristics, Treatment, and Survival Outcomes for Patients Diagnosed with Breast Cancer at a Tertiary Referral Hospital in Kenya Authors: Dr. Beryl Akinyi, Dr. Helena Musau, Prof. Jana Mcleod, Prof. Rondi Kauffmann, Michele Obat, Dorris Kanana, Moses Odhiambo, Ben Park
28	PRE-BREATHE: Building Respiratory support in East Africa through High flow versus low flow Evaluation. Author: Dr. George O Otieno: Principal Investigator AIC Kijabe Hospital
29	BREATHE: Oxygen Quantification at AIC Kijabe Hospital Authors: Dr. George O Otieno: Principal Investigator AIC Kijabe Hospital.

30	<p>Death and Coping Strategies: Perception of Nurses in Kenya. Authors: Peris Kiarie, DNP; Gabriel Okombo, BSN; Joel Ambikile, PhD; Mary Adam, MD PhD</p>
31	<p>The Second Victim Experience Survey-- CARING for Our Own Authors: Faith Lelei, MD; Moses Odhiambo; Mary. B Adam, MD, PhD; Peris Kiarie, PhD</p>
32	<p>Assessing the incidence, management, and outcomes of traumatic brain injury in a resource-limited setting Authors: B Jason Brotherton, Leahcaren Naguria Oundoh, Jonathan Abaho, Benjamin Wachira Thairu, Moses Odhiambo, Benjamin Mutiso, Beryl Akinyi, Paul Seraly, Kristina E Rudd</p>
33	<p>Impact of BLS and ACLS on the outcome of Cardiopulmonary Resuscitation in Hospital Author: Esther Edgar</p>
34	<p>Low-Intervention, Multi-Centre Study of the Burden of Nosocomial Infections Among Hospitalized Patients in Sub-Saharan Africa Authors: Basara I , Abangi Kennedy</p>
35	<p>Is the Kijabe Hospital Inpatient Malnutrition Management Protocol More Effective in Reducing Severe Acute Malnutrition Associated Outcomes among Children Under Five Compared to the National guidelines? Authors: Irene G. Kahacho, Chagwira M. Dr Arianna Shirk, Dr. Arcella Kaneza</p>
36	<p>Prevalence of Musculoskeletal pain among Surgeons in Sub-Saharan Africa Authors: Dr Vallery Logedi, Dr Richard Davis</p>
37	<p>Surveillance Partnership Improving Data for Action on Antimicrobial Resistance (SPIDAAR). Authors: Dr Imma K. Barasa; Argwings M; Moses Odhiambo; Doreen Buraje</p>
38	<p>Factors that Influence the Use of Modified Early Warning Score (MEWS) Escalation Protocol Among Nurses at AIC Kijabe Hospital Authors: Teresia Ndirangu; Mirriam Miima</p>
39	<p>Understanding adolescent transitions for youth with Spina Bifida in a LMIC: Using Focused Group Discussions to evaluate successes and challenge areas identified by young adults living with Spina Bifida. Authors: Luke McAuley; Mercy Mwangi, B</p>
40	<p>Survey of family replacement donors: promoters and barriers to future voluntary blood donation Authors: Prof. Jana macleod; Kathleen Kabeu; Simon Akhnoukh; Gladys Kuria ; Abigael Kiprono; Joseph Nderitu</p>

AIC Kijabe Published work from January 2021-March 2023

- 1 Makhoul, A. T., Pontell, M. E., Drolet, B. C., Perdakis, G., & Nthumba, P. M. (2021). The Global Craniofacial Surgery Deficit. *The Journal of craniofacial surgery*, 32(1), 10–11. <https://doi.org/10.1097/SCS.0000000000006906>
- 2 Jin, J., Akau'ola, S., Yip, C. H., Nthumba, P., Ameh, E. A., de Jonge, S., Mehes, M., Waiqanabete, I., Henry, J., Hill, A., & International Society of Surgery (ISS) and the G4 Alliance International Standards and Guidelines for Quality Safe Surgery and Anesthesia (ISG-QSSA) Group (2021). Effectiveness of Quality Improvement Processes, Interventions, and Structure in Trauma Systems in Low- and Middle-Income Countries: A Systematic Review and Meta-analysis. *World journal of surgery*, 45(7), 1982–1998. <https://doi.org/10.1007/s00268-021-06065-9>
- 3 Nthumba, P. M., Newton, M. W., & Gathuya, Z. (2021). Global surgery in the 21st century: The voice from Africa - We need a new model. *Paediatric anaesthesia*, 31(5), 510–512. <https://doi.org/10.1111/pan.14162>
- 4 Nthumba, P. M., Newton, M. W., & Gathuya, Z. (2021). Global surgery in the 21st century: The voice from Africa - We need a new model. *Paediatric anaesthesia*, 31(5), 510–512. <https://doi.org/10.1111/pan.14162>
- 5 Parker, R. K., Mwachiro, M. M., Topazian, H. M., Davis, R., Nyanga, A. F., O'Connor, Z., Burgert, S. L., & Topazian, M. D. (2021). Gastrointestinal endoscopy experience of surgical trainees throughout rural Africa. *Surgical endoscopy*, 35(12), 6708–6716. <https://doi.org/10.1007/s00464-020-08174-3>
- 6 Fitzgerald, T. N., Muma, N. J. K., Gallis, J. A., Reavis, G., Ukachukwu, A., Smith, E. R., Ogbuaji, O., & Rice, H. E. (2021). Development of an Interactive Global Surgery Course for Interdisciplinary Learners. *Annals of global health*, 87(1), 33. <https://doi.org/10.5334/aogh.3178>
- 7 Brotherton, B. J., Lelei, F., & Rudd, K. E. (2021). Clinical Severity Prediction Scores in Low-Resource Settings and the Conundrum of Missing Data. *JAMA network open*, 4(12), e2137593. <https://doi.org/10.1001/jamanetworkopen.2021.37593>
- 8 Roberts, H. J., Albright, P. D., Shearer, D. W., Won, N., MacKechnie, M. C., Richard Coughlin, R., Mclau, T., 3rd, Morshed, S., Sabharwal, S., & COACT Resident Rotation Study Group (2021). Motivations and impact of international rotations in low- and middle-income countries for orthopaedic surgery residents: Are we on the same page?. *American journal of surgery*, 221(2), 245–253. <https://doi.org/10.1016/j.amjsurg.2020.08.046>
- 9 Alayande, B., Forbes, C., Degu, S., Hey, M. T., Karekezi, C., Khanyola, J., Iradukunda, J., Newton, M., Okolo, I. D., Jumbam, D. T., Chu, K. M., Makasa, E. M., Anderson, G. A., Farmer, P., (late), Kim, J. Y., Binagwaho, A., Riviello, R., & Bekele, A. (2022). Shifting global surgery's center of gravity. *Surgery*, 172(3), 1029–1030. <https://doi.org/10.1016/j.surg.2022.04.048>
- 10 Barbareschi, G., Teerlink, W., Njuguna, J. G., Musungu, P., Kirino, M. D., & Holloway, C. (2022). Evaluating the use of a thermoplastic socket in Kenya: A pilot study. *Prosthetics and orthotics international*, 46(5), 532–537. <https://doi.org/10.1097/PXR.000000000000130>
- 11 Brotherton B. J. (2022). Sometimes, less is just less.... *Intensive care medicine*, 48(7), 987–988. <https://doi.org/10.1007/s00134-021-06598-6>
- 12 Axt J, Grayson BL, Eisenhut D, Parker AS. Pediatric Surgery: Lymphadenopathy, Neck Masses, Thoracic Surgery, Genitourinary Surgery, and Vascular Access. COSECSA Surgical Foundations Curriculum. Online Module. Created 2022.
- 13 Axt J, Grayson BL, Eisenhut D, Parker AS. Pediatric Surgery: Neonatal Vomiting, Pediatric Gastrointestinal Bleeding, the Jaundiced Infant, Disorders of the Abdominal Wall, and Neoplasms. COSECSA Surgical Foundations Curriculum. Online Module. Created 2022.

- 14 Jepkosgei, J., English, M., Adam, M. B., & Nzinga, J. (2022). Understanding intra- and interprofessional team and teamwork processes by exploring facility-based neonatal care in Kenyan hospitals. *BMC health services research*, 22(1), 636. <https://doi.org/10.1186/s12913-022-08039-6>
- 15 Jepkosgei, J., Nzinga, J., Adam, M. B., & English, M. (2022). Exploring healthcare workers' perceptions on the use of morbidity and mortality audits as an avenue for learning and care improvement in Kenyan hospitals' new-born units. *BMC health services research*, 22(1), 172. <https://doi.org/10.1186/s12913-022-07572-8>
- 16 Jin, J., 'Akau'ola, S., Yip, C. H., Nthumba, P., Ameh, E. A., de Jonge, S., Mehes, M., Waiqanabete, H. I., Henry, J., Hill, A., & International Society of Surgery (ISS) and the G4
- 17 Alliance International Standards and Guidelines for Quality Safe Surgery and Anesthesia (ISG-QSSA) Group (2022). Correction to: The Impact of Quality Improvement Interventions in Improving Surgical Infections and Mortality in Low and Middle-Income Countries: A Systematic Review and Meta-Analysis. *World journal of surgery*, 46(1), 294. <https://doi.org/10.1007/s00268-021-06274-2>
- 18 Muttalib, F., González-Dambrauskas, S., Lee, J. H., Steere, M., Agulnik, A., Murthy, S., Adhikari, N. K. J., & PALISI Global Health Subgroup of the Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) (2021). Pediatric Emergency and Critical Care Resources and Infrastructure in Resource-Limited Settings: A Multicountry Survey. *Critical care medicine*, 49(4), 671–681. <https://doi.org/10.1097>
- 19 Kariuki-Barasa, I., & Adam, M. B. (2022). Living on the Edge of Possibility: Ethical Issues in the Care of Critically Ill Patients in Resource-Limited Settings. *Critical care clinics*, 38(4), 853–863. <https://doi.org/10.1016/j.ccc.2022.06.009>
- 20 Nthumba, P. M., Huang, Y., Perdakis, G., & Kranzer, K. (2022). Surgical Antibiotic Prophylaxis in Children Undergoing Surgery: A Systematic Review and Meta-Analysis. *Surgical infections*, 23(6), 501–515. <https://doi.org/10.1089/sur.2022.131>
- 21 Sayed, S., Fan, S., Moloo, Z., Wasike, R., Bird, P., Saleh, M., Shaikh, A. J., Figueroa, J. D., Naidoo, R., Makokha, F. W., Gardner, K., Oigara, R., Njoroge, F. W., Magangane, P., Mutebi, M., Chauhan, R., Mwanzi, S., Govender, D., & Yang, X. R. (2021). Breast cancer risk factors in relation to molecular subtypes in breast cancer patients from Kenya. *Breast cancer research : BCR*, 23(1), 68. <https://doi.org/10.1186/s13058-021-01446-3>
- 22 Umutesi, G., McEvoy, M. D., Bonnet, K., Druffner, S., Schlundt, D. G., Atieli, H. E., China, J. N., Onyango, K., & Newton, M. W. (2021). Factors influencing mothers' decisions regarding obstetrical care in Western Kenya: a mixed-methods study. *BMC women's health*, 21(1), 210. <https://doi.org/10.1186/s12905-021-01355-9>
- 23 Oluoch-Aridi, J., Wafula, F., Kokwaro, G., Mcalhaney, M., & Adam, M. B. (2021). Understanding Women's Choices: How Women's Perceptions of Quality of Care Influences Place of Delivery in a Rural Sub-County in Kenya. A Qualitative Study. *Maternal and child health journal*, 25(11), 1787–1797. <https://doi.org/10.1007/s10995-021-03214-3>
- 24 Davies, J. I., Gelb, A. W., Gore-Booth, J., Martin, J., Mellin-Olsen, J., Åkerman, C., Ameh, E. A., Biccard, B. M., Braut, G. S., Chu, K. M., Derbew, M., Ersdal, H. L., Guzman, J. M., Hagander, L., Haylock-Loor, C., Holmer, H., Johnson, W., Juran, S., Kassebaum, N. J., Laerdal, T., ... Weiser, T. G. (2021). Global surgery, obstetric, and anaesthesia indicator definitions and reporting: An Utstein consensus report. *PLoS medicine*, 18(8), e1003749. <https://doi.org/10.1371/journal.pmed.1003749>
- 25 Stoehr, J. R., Chappell, A. G., Hassan, A., Nthumba, P., & Salyapongse, A. N. (2021). Plastic Surgery Across Continents: A Comparison of Residency Training in Sub-Saharan Africa and the United States. *Annals of plastic surgery*, 87(1), 3–11. <https://doi.org/10.1097/SAP.0000000000002672>
- 26 Din, T. F., Macharia, C., & Harris, T. (2021). Advancing African otolaryngology and head & neck surgery education and training through virtual academic platforms and multidisciplinary teams. *Current opinion in otolaryngology & head and neck surgery*, 29(3), 230–234. <https://doi.org/10.1097/MOO.0000000000000712>

- 27 Raees, M., Cheserem, B., Mutiso, B., Laeke, T., & Brotherton, B. J. (2022). The Next Frontier in Neurocritical Care in Resource-Constrained Settings. *Critical care clinics*, 38(4), 721–745. <https://doi.org/10.1016/j.ccc.2022.06.016>
- 28 Schoenbrunner, A. R., McIntyre, J. K., Nthumba, P., Muchemwa, F. C., Sigler, A., & Gosman, A. A. (2022). Ethical Dilemmas in Global Plastic Surgery: Divergent Perspectives of Local and Visiting Surgeons. *Plastic and reconstructive surgery*, 149(4), 789e–799e. <https://doi.org/10.1097/PRS.00000000000008957>
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FROM THE INSIDE

Patrick

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Mardi Steere 



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He enters the world with a cry
 And this little life, this sculpted being
 Is a Picasso.
 Twelve fingers, twelve toes
 Abstract heart
 A cacophony of connections
 A window of belly to naked bowel
 A confusion of creation.
 We dress for battle
 Helmet of oxygen
 Needles for spears
 Rations of salty sugary fluids -
 Engaging impending death
 With determination that we should
 Win.
 For two days we fight
 Parry and thrust
 Charge and retreat
 With combat cries we forge ahead
 Determined that, whoever the victor,
 We will have battled well.
 But by day three the smoke is clearing -
 the battlefield is deserted.
 Across the way we see
 No hood, no sickle, no face of fear
 Instead we see a beckoning friend.
 We lay down our weapons
 Embracing what is next -
 Not a loss in a blaze of attempted glory
 Where the outcome is resisted until the end
 But a journey together.
 With holiness and sobriety
 with tears
 with solace
 with silence

with grief
 with waiting
 with prayer.
 Fearfully and wonderfully made
 But for a different time and place.
 Kisses and cuddles and murmurs of
 love. Such love.
 Father, into Your hands
 We entrust his spirit.
 Farewell sweet one
 Baby Picasso.

Declarartions

Conflicts of interest
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