



## Yihan Lin, MD MPH

Clinical Assistant Professor, Cardiothoracic Surgery

### CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Surgery**

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### Bio

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#### BIO

Dr. Lin is a cardiothoracic surgeon and clinical assistant professor in the Department of Cardiothoracic Surgery at Stanford University School of Medicine. She provides the complete spectrum of surgical care for cardiac conditions, including ischemic heart disease, structural heart disease, aortic disease, and arrhythmias.

Dr. Lin's research is focused on surgical education and global disparities in surgical care. She obtained her Master of Public Health from the Harvard School of Public Health. Her research aims to decrease barriers and disparities in surgical care, including in low and middle income settings.

#### CLINICAL FOCUS

- Thoracic and Cardiac Surgery

#### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Cardiothoracic Surgery
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

#### PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2023)
- Fellowship: Univ of Colorado Cardiothoracic Surgery Fellowship (2022) CO
- Board Certification: General Surgery, American Board of Surgery (2020)
- Residency: University of Colorado General Surgery Residency Program (2019) CO
- Master of Public Health, Harvard School of Public Health (2017)
- Medical Education: University of Colorado School of Medicine (2012) CO

## LINKS

- Global Cardiac Surgery Lab Website: <https://med.stanford.edu/global-cardiac-surgery-lab.html>
- GlobalSurgBox Surgical Simulator: [www.globalsurgbox.com](http://www.globalsurgbox.com)

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

Vongai Mlambo

## Publications

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### PUBLICATIONS

- **Short term outcomes of the first pediatric cardiac surgery program in Rwanda.** *Journal of cardiothoracic surgery*  
Ejigu, Y., Mlambo, V. C., Neil, K. L., Sime, H., Wong, R., Gatera, M. R., Nyirigira, G., Sewnet, Y. C., Lin, Y., Byishimo, B., Rukomeza, G., Mutabandama, Y., Rusingiza, et al  
2024; 19 (1): 699
- **Cost-effectiveness analysis of pediatric cardiac surgery for common lesions in Rwanda.** *International journal of cardiology*  
Mlambo, V. C., Ejigu, Y., Neil, K. L., Sendegeya, A., Ntihabose, C., Bendavid, E., d'Aci, P. R., Lin, Y.  
2024: 132909
- **Cost-effectiveness analysis of valvular surgery in high- and low- to middle-income countries: A scoping review.** *World journal of surgery*  
Mlambo, V., Hyles, K., Wang, S., Lin, Y.  
2024
- **Development and dissemination of a series of surgical skills and procedures video tutorials using a novel, low-cost, and sustainable simulation kit (GlobalSurgBox).** *American journal of surgery*  
Bryce-Alberti, M., Wittenberg, R. E., Kirsch, M. J., Bollinger, D., Winslow, K., Hey, M. T., Rauf, R., Alayande, B., Anderson, G. A., Lin, Y.  
2024: 116002
- **The path to sustainable cardiac surgery in Rwanda: analysis of costs for consumables used during cardiac surgery for a non-governmental organization.** *Journal of cardiothoracic surgery*  
Rando, H., Musoni, M., Greenwood, B. C., Ingabire, L., Van Hook, S., Bolman, C. P., Bolman, R. M., Lin, Y.  
2024; 19 (1): 574
- **Teaching With the GlobalSurgBox: Trainer Perceptions of a Portable Surgical Simulator.** *Journal of surgical education*  
Mlambo, V. C., Kirsch, M. J., Masimbi, O., Gasakure, M., Alayande, B., Lin, Y.  
2024; 81 (10): 1331-1338
- **Optimal content for a surgical curriculum for general practice in Rwanda: A Delphi study.** *World journal of surgery*  
Mprimibanyi, C., Kirsch, M., Lin, Y.  
2024
- **Reproductive health among women of child-bearing age after surgery for Rheumatic Heart Disease in Rwanda.** *The Journal of thoracic and cardiovascular surgery*  
Rusingiza, E., Schulick, N., Umuganwa, P., Ntirushwa, D., Dusingizimana, V., Uwamariya, J., Kaze, L., Bolman, C., Swain, J., Mwamikazi, C., Mucumbitsi, J., Musoni, M., Bitunguhari, et al  
2024
- **Global Cardiac Surgical Volume and Gaps: Trends, Targets, and Way Forward.** *Annals of thoracic surgery short reports*  
Vervoort, D., Lee, G., Ghandour, H., Guetter, C. R., Adreak, N., Till, B. M., Lin, Y.  
2024; 2 (2): 320-324
- **Uncommon presentations of type A quadricuspid aortic valve in the Septuagenarian.** *Journal of cardiothoracic surgery*  
Choi, P., Paulsen, M., Lin, Y., Moskaliuk, W., Ji, A., Jackson, E., Malik, S., Burton, E., Woo, Y. J., Burdon, T.

2024; 19 (1): 301

- **Global cardiothoracic surgery: A survey of trainees' interests and barriers.** *JTCVS open*  
Lin, Y., Hoffner-Heinike, A., Clair, V., Han, J. J., Louis, C., Bolman, R.  
2023; 16: 610-618
- **Developing a Surgical Simulation Curriculum for the Rwandan Context.** *Journal of surgical education*  
Hey, M. T., Alayande, B. T., Masimbi, O., Shimelash, N., Forbes, C., Twizeyimana, J., Hamzah, R., Lin, Y., Riviello, R., Bekele, A., Anderson, G. A.  
2023
- **Long-Term Patient Reported Symptom Improvement and Quality of Life after Transthoracic Diaphragm Plication in Adults.** *Journal of the American College of Surgeons*  
Hunt, A. R., Stuart, C. M., Gergen, A. K., Bang, T. J., Reihman, A. E., Helmkamp, L. J., Lin, Y., Mitchell, J. D., Meguid, R. A., Scott, C. D., Wojcik, B. M.  
2023
- **Aortic Valve Repair: A Portable, Low-Cost Simulator.** *Annals of thoracic surgery short reports*  
Madsen, H. J., Lin, Y., Downs, E. A.  
2023; 1 (1): 61-64
- **GlobalSurgBox: A Portable Surgical Simulator for Surgical Trainees Worldwide.** *Journal of surgical education*  
Kirsch, M. J., Mangham, C., Lin, Y.  
2023
- **Developing a Comprehensive Surgical Simulation Program for Medical Students in the Rwandan Context**  
Hey, M., Alayande, B. T., Masimbi, O., Shimelash, N., Hamzah, R., Forbes, C. W., Lin, Y., Riviello, R., Anderson, G.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S109
- **Long-Term Patient-Reported Symptom Improvement and Quality of Life after Transthoracic Diaphragm Plication in Adults**  
Hunt, A. R., Gergen, A. K., Helmkamp, L. J., Lin, Y., Mitchell, J. D., Meguid, R. A., Wojcik, B. M.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S261-S262
- **6 Billion People Have No Access to Safe, Timely, and Affordable Cardiac Surgical Care.** *JACC. Advances*  
Vervoort, D., Lee, G., Lin, Y., Contreras Reyes, J. R., Kanyepi, K., Tapaua, N.  
2022; 1 (3): 100061
- **Insights from the thoracic surgery residents association early-career development series.** *JTCVS open*  
Mehaffey, J. H., Blitzer, D., Coyan, G., Wilder, F. G., Lin, Y., Han, J., Luc, J. G., Louis, C., Brescia, A. A.  
2022; 10: 298-302
- **Development of a Modular and Equitable Surgical Simulator** *GLOBAL HEALTH-SCIENCE AND PRACTICE*  
Lin, Y., Han, J. J., Kelly, J. J., Gergen, A. K., Downs, E.  
2022; 10 (3)
- **Noteworthy Cardiac Literature From 2021: Coronary Guideline Change Without New Data, Heart Transplant Donation After Cardiac Death, Covid Effects on Global Cardiac Surgery, and Attempt to Improve Dissection Remodeling** *SEMINARS IN CARDIOTHORACIC AND VASCULAR ANESTHESIA*  
Hoffman, J. H., Higa, K. C., Lin, Y., Reece, T., Cleveland, J. C., Aftab, M., Rove, J. Y.  
2022; 26 (2): 154-161
- **Triple-branched stent graft for acute non-A, non-B dissection: an interesting step, but is it forward?** *The Annals of thoracic surgery*  
Carroll, A. M., Lin, Y., Reece, T. B.  
2022
- **Surgical management of a collateral arch channel and aortic coarctation** *JOURNAL OF CARDIAC SURGERY*  
Schulick, N., Lin, Y., Fonseca, B., Campbell, D. N., L. Stone, M.  
2022; 37 (2): 445-448
- **Factors Affecting Attrition in Cardiothoracic Surgery: Survey of North American General Surgery Trainees**  
Louis, C., Blitzer, D., Luc, J. Y., Han, J. J., Lin, Y., Brescia, A. A., Mozer, A. B., Garuba, F., Tchantchaleishvili, V., Nguyen, T. C.  
ELSEVIER SCIENCE INC.2021: S41-S42

- **Neonatal heart transplant outcomes: A single institutional experience** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
Lin, Y., Davis, T. J., Zorrilla-Vaca, A., Wojcik, B. M., Miyamoto, S. D., Everitt, M. D., Campbell, D. N., Jagers, J. J., Rajab, T.  
2021; 162 (5): 1361-1368
- **Operative intervention for a central pulmonary artery pseudoaneurysm** *JOURNAL OF CARDIAC SURGERY*  
Singh, A. B., Lin, Y., Pal, J.  
2021; 36 (12): 4762-4765
- **Commentary: Intraoperative neuromonitoring: FAST to FASTER response to neurologic complication.** *The Journal of thoracic and cardiovascular surgery*  
Lin, Y., Aftab, M., Reece, T. B.  
2021
- **Coronary Artery Reimplantation and Berlin Heart EXCOR Rescue for Left Coronary Artery Atresia With Severe Ischemic Cardiomyopathy** *WORLD JOURNAL FOR PEDIATRIC AND CONGENITAL HEART SURGERY*  
Wilkinson, D., Lin, Y., Everett, M., Auerbach, S., Morgan, G., Mitchell, M. B.  
2021; 12 (6): 793-795
- **Commentary: Obviously Malperfusion in Dissection Is Bad, But Severe Acidosis May Be Unsurmountable** *SEMINARS IN THORACIC AND CARDIOVASCULAR SURGERY*  
Lin, Y., Aftab, M., Reece, T.  
2020; 32 (4): 681-682
- **Cardiac surgery publications in Africa over the last 20 years: A literature review** *SOUTH AFRICAN JOURNAL OF SCIENCE*  
Lin, Y., Till, B. M., Yi, S., Dahm, J. S., Taylor, K., Lu, N., Zilla, P., Bolman, R. M.  
2020; 116 (1-2)
- **Identification of the Critical Nontechnical Skills for Surgeons Needed for High Performance in a Variable-resource Context (NOTSS-VRC)** *ANNALS OF SURGERY*  
Scott, J. W., Lin, Y., Ntakiyiruta, G., Mutabazi, Z., Davis, W. A., Morris, M. A., Smink, D. S., Riviello, R., Yule, S.  
2019; 270 (6): 1070-1078
- **A Cadaver-Based Course for Humanitarian Surgery Improves Manual Skill in Powerless External Fixation** *JOURNAL OF SURGICAL RESEARCH*  
Coleman, J. R., Lin, Y., Shaw, B., Kuwayama, D.  
2019; 242: 270-275
- **Quality of essential surgical care in low- and middle-income countries: a systematic review of the literature** *INTERNATIONAL JOURNAL FOR QUALITY IN HEALTH CARE*  
Saluja, S., Mukhopadhyay, S., Amundson, J. R., Silverstein, A., Gelman, J., Jenny, H., Lin, Y., Moccia, A., Rashad, R., Sood, R., Raykar, N. P., Shrimme, M. G.  
2019; 31 (3): 166-172
- **Gender-based analysis of factors affecting junior medical students' career selection: addressing the shortage of surgical workforce in Rwanda** *HUMAN RESOURCES FOR HEALTH*  
Kansayisa, G., Yi, S., Lin, Y., Costas-Chavarri, A.  
2018; 16: 29
- **Improving Surgical Safety and Nontechnical Skills in Variable-Resource Contexts: A Novel Educational Curriculum** *JOURNAL OF SURGICAL EDUCATION*  
Lin, Y., Scott, J. W., Yi, S., Taylor, K. K., Ntakiyiruta, G., Ntirenganya, F., Banguti, P., Yule, S., Riviello, R.  
2018; 75 (4): 1014-1021
- **American College of Surgeons Member Involvement in Global Surgery: Results from the 2015 Operation Giving Back Survey** *WORLD JOURNAL OF SURGERY*  
Boeck, M. A., Goodman, L. F., Lin, Y., Wilczak, B., Tefera, G.  
2018; 42 (7): 2018-2027
- **The Colorado Humanitarian Surgical Skills Workshop: A Cadaver-Based Workshop to Prepare Residents for Surgery in Austere Settings** *JOURNAL OF SURGICAL EDUCATION*  
Lin, Y., Mukhopadhyay, S., Meguid, R. A., Kuwayama, D. P.

2018; 75 (2): 383-391

- **Contextual Challenges to Safe Surgery in a Resource-limited Setting A Multicenter, Multiprofessional Qualitative Study** *ANNALS OF SURGERY*  
Scott, J. W., Lin, Y., Ntakiyiruta, G., Mutabazi, Z. A., Davis, W., Morris, M. A., Smink, D. S., Riviello, R., Yule, S.  
2018; 267 (3): 461-467
- **Using Touch Surgery to Improve Surgical Education in Low- and Middle-Income Settings: A Randomized Control Trial** *JOURNAL OF SURGICAL EDUCATION*  
Bunogerane, G., Taylor, K., Lin, Y., Costas-Chavarri, A.  
2018; 75 (1): 231-237
- **Are American Surgical Residents Prepared for Humanitarian Deployment?: A Comparative Analysis of Resident and Humanitarian Case Logs** *WORLD JOURNAL OF SURGERY*  
Lin, Y., Dahm, J. S., Kushner, A. L., Lawrence, J. P., Trelles, M., Dominguez, L. B., Kuwayama, D. P.  
2018; 42 (1): 32-39
- **Longer travel time to district hospital worsens neonatal outcomes: a retrospective cross-sectional study of the effect of delays in receiving emergency cesarean section in Rwanda** *BMC PREGNANCY AND CHILDBIRTH*  
Niyitegeka, J., Nshimirimana, G., Silverstein, A., Odhiambo, J., Lin, Y., Nkurunziza, T., Riviello, R., Rulisa, S., Banguti, P., Magge, H., Macharia, M., Habimana, R., Hedt-Gauthier, et al  
2017; 17: 242
- **An institutional analysis of unplanned return to the operating room to identify areas for quality improvement** *AMERICAN JOURNAL OF SURGERY*  
Lin, Y., Meguid, R. A., Hosokawa, P. W., Henderson, W. G., Hammermeister, K. E., Schulick, R. D., Shelstad, R. C., Wild, T. T., McIntyre, R. C.  
2017; 214 (1): 1-6
- **Using the Consolidated Framework for Implementation Research to implement and evaluate national surgical planning** *BMJ GLOBAL HEALTH*  
Saluja, S., Silverstein, A., Mukhopadhyay, S., Lin, Y., Raykar, N., Keshavjee, S., Samad, L., Meara, J. G.  
2017; 2 (2): e000269
- **Maternal predictors of neonatal outcomes after emergency cesarean section: a retrospective study in three rural district hospitals in Rwanda.** *Maternal health, neonatology and perinatology*  
Nyirahabimana, N., Ufashingabire, C. M., Lin, Y., Hedt-Gauthier, B., Riviello, R., Odhiambo, J., Mubiligi, J., Macharia, M., Rulisa, S., Uwicyeza, I., Ngamije, P., Nkikabahizi, F., Nkurunziza, et al  
2017; 3: 11
- **Using satellite imagery and GPS technology to create random sampling frames in high risk environments** *INTERNATIONAL JOURNAL OF SURGERY*  
Lin, Y., Kuwayama, D.  
2016; 32: 123-128
- **Global Surgery 2030: a roadmap for high income country actors** *BMJ GLOBAL HEALTH*  
Ng-Kamstra, J. S., Greenberg, S. M., Abdullah, F., Amado, V., Anderson, G. A., Cossa, M., Costas-Chavarri, A., Davies, J., Debas, H. T., Dyer, G. M., Erdene, S., Farmer, P. E., Gaumnitz, et al  
2016; 1 (1): e000011
- **A prospective, controlled clinical evaluation of surgical stabilization of severe rib fractures**  
Pieracci, F. M., Lin, Y., Rodil, M., Synder, M., Herbert, B., Dong Kha Tran, Stoval, R. T., Johnson, J. L., Biffi, W. L., Barnett, C. C., Cothren-Burlew, C., Fox, C., Jurkovich, G. J., et al  
LIPPINCOTT WILLIAMS & WILKINS.2016: 187-192
- **Unplanned Return to the Operating Room: An Institutional Analysis to Identify Areas for Improvement**  
Lin, Y., Meguid, R. A., Henderson, W. G., Hammermeister, K., Wild, T. T., Spruiell, M. D., Quattlebaum, S., Shelstad, R. C., Folzenlogen, Z., McIntyre, R. C.  
ELSEVIER SCIENCE INC.2015: S79-S80
- **Vitamin D deficiency does not increase the rate of postoperative hypocalcemia after thyroidectomy** *AMERICAN JOURNAL OF SURGERY*  
Lin, Y., Ross, H. L., Raeburn, C. D., DeWitt, P. E., Albuja-Cruz, M., Jones, E. L., McIntyre, R. C.  
2012; 204 (6): 888-893