



## Lisa Marie Knowlton, MD, MPH, FACS, FRCSC

Associate Professor of Surgery (General Surgery)  
Surgery - General Surgery

### CLINICAL OFFICE (PRIMARY)

- **General Surgery**

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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#### BIO

Dr. Knowlton is an Associate Professor of Surgery and an Acute Care Surgeon whose practice encompasses trauma surgery, emergency general surgery and surgical critical care. She is an NIH and ARPA-H funded researcher whose focus is on improving access to innovative, high-quality surgical care. She obtained her medical degree at McGill University and completed her general surgery residency at the University of British Columbia in Vancouver, Canada. Her desire to understand varied healthcare systems and develop policy solutions led her to obtain an M.P.H. at the Harvard T.H. Chan School of Public Health and complete a research fellowship at the Harvard Humanitarian Initiative. After training as a Surgical Critical Care fellow at Stanford University Medical Center, she joined the faculty as an Assistant Professor of Surgery in early 2018. She was promoted to Associate Professor in the University Medical Line in 2023. Her institutional leadership roles include serving as the Unit Based Medical Director of the Surgical Intensive Care Unit, the Associate Vice Chair of Research for the Stanford Department of Surgery, the SHC Surgical AI Lead for Early Clinical Deterioration, and the Associate Program Director for the Surgical Critical Care fellowship.

Dr. Knowlton is board certified by the American Board of Surgery and the Royal College of Physicians and Surgeons of Canada. Dr. Knowlton's areas of clinical interest include developing safe surgical solutions for anatomic visualization in the operating room, artificial intelligence prediction tools for detection early clinical deterioration of surgery patients, optimizing the management of critically ill patients and reducing venous thromboembolism events.

Her research focuses on improving access to high-quality and high-value surgical care, merging expertise in health economics, and artificial intelligence to implement surgical innovations and health policy interventions. She leads novel work with the Department of Health Care Services focused on improving healthcare access and utilization through emergency Medicaid programs.

Dr. Knowlton's research lab (<https://med.stanford.edu/knowlton-lab.html>) is funded by the Advanced Research Projects Agency for Health (ARPA-H), the National Institute of Health (NIMHD) through R21 and R01 grants, and the California Violence Prevention Center. She has also held funding through

PCORI, the Department of Defense, the American College of Surgeons (the 17th C. James Carrico Faculty Research Fellowship), and the American Association for the Surgery of Trauma (AAST).

<https://surgery.stanford.edu/news2/Knowlton-ARPA-H.html>

She is active in national and international professional surgical societies, and recently served as the inaugural Chair of the Associate Member Council of the AAST. Dr. Knowlton has been recognized by the Association of Women Surgeons as both a 'Shining Star' and 'Breaking the Glass Ceiling' Leadership Scholar. She is also an American College of Surgeons Health Policy Scholar. Most recently, Dr. Knowlton was also selected as the 2023-24 U.S. ambassador for the James IV Surgical Association Traveling Fellowship program, where she will travel internationally to foster clinical and research collaborations.

## **CLINICAL FOCUS**

- General Surgery
- Trauma Surgery
- Acute Care Surgery
- Surgical Critical Care

## **ACADEMIC APPOINTMENTS**

- Associate Professor - University Medical Line, Surgery - General Surgery
- Member, Cardiovascular Institute

## **ADMINISTRATIVE APPOINTMENTS**

- Unit Based Medical Director, Surgical Intensive Care Unit, Stanford Health Care, (2024- present)
- Associate Vice Chair of Research, Department of Surgery, Stanford University Department of Surgery, (2023-2026)
- Associate Program Director, Stanford Surgical Critical Care Fellowship, Stanford University School of Medicine, (2020- present)
- Chair, AAST Associate Member Council, American Association for the Surgery of Trauma, (2020-2022)
- General Surgery Resident Coach, Stanford University Department of Surgery, (2020-2023)

## **HONORS AND AWARDS**

- ARPA-H Precision Surgical Intervention Grant (White House Moonshot Initiative), Advanced Research Projects Agency for Health (ARPA-H) (2024-2029)
- James IV Traveling Fellowship Recipient, James IV Association of Surgeons (2024-2025)
- Break the Glass Ceiling Leadership Scholarship, Association of Women Surgeons (AWS) (2024)
- Health Policy Scholarship, American College of Surgeons and Eastern Association for the Surgery of Trauma (EAST) (2024)
- Faculty Seed Grant, Stanford Department of Surgery (2023-2024)
- R01 Research Project Grant, National Institute on Minority Health and Health Disparities (2023-2028)
- Shining Star Award, Association of Women Surgeons (2023)
- Canizaro New Fellow Best Paper and Presentation Award, 82nd Annual Meeting of the AAST, American Association for the Surgery of Trauma (2023)
- R21 Exploratory Development Grant, National Institute on Minority Health and Health Disparities (July 2021-June 2023)
- Pacific Invited Professorship, Visiting Professor Collaborative (UC Davis, UCSF, Stanford, OHSU, UW) (2022-2023)
- Associate Member Best Paper and Presentation Award, 81st Annual Meeting of the AAST, American Association for the Surgery of Trauma (September 2022)
- McCormick and Gabilan Faculty Fellow, Stanford University Office for Faculty Development and Diversity (2020-2022)
- AAST Faculty Research Fellowship, American Association for the Surgery of Trauma (July 2020-July 2021)

- Stanford Department of Surgery Faculty Seed Grant, Stanford Department of Surgery (March 2020-March 2021)
- C. James Carrico Faculty Research Fellowship, American College of Surgeons (July 2018-July 2020)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member Initiate, Western Trauma Association (2023 - present)
- Member, Pacific Coast Surgical Association (2023 - present)
- Fellow, American Association for the Surgery of Trauma (2023 - present)
- Fellow, American College of Surgeons (2020 - present)
- Member, Association for Women Surgeons (2020 - present)
- Publications Committee, Association for Academic Surgery (2020 - present)
- Diversity and Inclusion Cabinet, Stanford Department of Surgery (2020 - present)
- Healthcare and Economics Committee, American Association for the Surgery of Trauma (2019 - present)
- Early Clinical Deterioration Committee, Surgery Lead, Stanford University Medical Center (2019 - present)
- Member, Association for Academic Surgery (2019 - present)
- Associate Member, American Association for the Surgery of Trauma (2019 - present)
- Diversity and Inclusion Committee, American Association for the Surgery of Trauma (2019 - present)
- Member, Canadian Association of General Surgeons (2014 - present)

## **PROFESSIONAL EDUCATION**

- Board Certification: Surgical Critical Care, American Board of Surgery (2018)
- Board Certification: General Surgery, American Board of Surgery (2016)
- Fellowship: Stanford University Medical Center (2016) CA
- Board Certification: General Surgery, Royal College of Physicians and Surgeons of Canada (2014)
- Residency: University of British Columbia - UBC (2014) Canada
- Master of Public Health, Harvard T.H. Chan School of Public Health , Quantitative Methods / Global Health (2010)
- Internship: University of British Columbia - UBC (2008) Canada
- Medical Education: McGill University - Faculty of Medicine (2007) Canada

## **Teaching**

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### **COURSES**

#### **2023-24**

- Practical Introduction to Surgical Research: SURG 238 (Win)

#### **2022-23**

- Practical Introduction to Surgical Research: SURG 238 (Win)
- Seminar in Global Surgery and Anesthesia: SURG 236 (Win)

### **STANFORD ADVISEES**

#### **Med Scholar Project Advisor**

Clare Kennedy

#### **Postdoctoral Faculty Sponsor**

Yann Sakref

## Publications

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### PUBLICATIONS

- **Blunt Tibial Injury Is Associated With Primary Amputation for Lower Extremity Vascular Trauma.** *The Journal of surgical research*  
Ho, V. T., Dossabhoy, S. S., Tennakoon, L., Lee, J. T., Knowlton, L. M.  
2026; 323: 159-164
- **Empowering surgeons with integrated synthetic data: solutions for mastering complex clinical scenarios.** *NPJ digital medicine*  
Sakref, Y., Seenivasan, L., Ding, H., Iyer, R., Venkatesh, D. K., Speidel, S., Unberath, M., Jopling, J. K., Knowlton, L. M.  
2026
- **Natural Language Processing for Surgical Quality Enhancement.** *The Journal of surgical research*  
Tennakoon, L., Roll, N., Knowlton, L. M., Spain, D. A., Hawn, M.  
2026; 322: 361-366
- **BREAKING DOWN THE EVIDENCE: A MULTICENTER ANALYSIS OF VENOUS THROMBOEMBOLISM AMONG TRAUMA PATIENTS WITH LOWER EXTREMITY FRACTURES.** *Journal of orthopaedic trauma*  
Knowlton, L. M., Guorgui, J. G., Wang, S., Arnow, K., Knudson, M. M.  
2026
- **Optimizing your output: maximizing documentation efficiency and improving reimbursement.** *Trauma surgery & acute care open*  
Ritter, K. A., Knowlton, L. M., Gurney, J. M., Bonne, S., Fakhry, S. M.  
2026; 11 (2): e001927
- **Financial toxicity after trauma and acute care surgery: recommendations for measuring long-term financial hardship.** *Trauma surgery & acute care open*  
Haddad, D., Kim, P., Dowzicky, P., Agapian, J. V., Bugaev, N., Crandall, M. L., Hu, P., Martin, R. S., Nahmias, J., Smith, S. G., Staudenmayer, K., Zarzaur, B. L., Knowlton, et al  
2025; 10 (4): e001856
- **Beyond capacity: an EAST multicenter mixed-methods study exploring surgeon perceptions on patient ratios in acute care surgery.** *Trauma surgery & acute care open*  
Wilson, D. J., Gellings, J. A., Coleman, J., Mukherjee, K., Bonne, S., Boltz, M., Hartwell, J. L., Bruns, B., Kurle, J., Hassan, M., Todd, S. R., Maqbool, B., Morse, et al  
2025; 10 (4): e001937
- **Augmenting decision making in acute care surgery: A systematic review of machine learning-driven risk prediction models.** *The journal of trauma and acute care surgery*  
Lee, A. H., Chan, M. K., Narayanan, D., Staudenmayer, K., Nassar, A., Forrester, J. D., Knowlton, L. M., Hameed, S. M.  
2025
- **Evaluating Financial Toxicity and Quality of Life Among Acute Care Surgery Patients: A Mixed-Methods Study.** *Journal of the American College of Surgeons*  
Kennedy, C., Wang, S., Chen, J., Flojo, R., King, J., Arnow, K., Earley, M., Abreo, A., Knowlton, L. M., S-SPIRE Qualitative Study Team  
2025
- **Leveraging ChatGPT for thematic analysis of medical best practice advisory data.** *JAMIA open*  
Jeong, Y., Smith, M., Gallo, R. J., Knowlton, L. M., Lin, S., Shieh, L.  
2025; 8 (5): ooaf126
- **Leveraging ChatGPT for thematic analysis of medical best practice advisory data** *JAMIA OPEN*  
Jeong, Y., Smith, M., Gallo, R. J., Knowlton, L., Lin, S., Shieh, L.  
2025; 8 (5)
- **Understanding Financial Hardship for Liver Transplant Recipients: A National Evaluation of Pre-Transplant Costs and Insurance Instability**  
Guorgui, J., Bae, H., Grab, J. D., Arnow, K., Knowlton, L. M.  
ELSEVIER SCIENCE INC.2025: S523
- **Futility Thresholds for Emergency General Surgery in the Post-Cardiac Intensive Care Unit.** *The Journal of surgical research*

- Villarreal, J. A., Satyadi, W., Tennakoon, L., Knowlton, L. M., Knight, A., Forrester, J. D.  
2025; 313: 78-83
- **Factors associated with in-hospital amputation after revascularization for lower extremity trauma.** *Vascular*  
Ho, V. T., Dossabhoy, S. S., Tennakoon, L., Lee, J. T., Knowlton, L. M.  
2025: 17085381251360074
  - **The Future of Emergency Medicaid - What's at Stake for Patients and Hospitals.** *Annals of surgery*  
Keegan, G., Knowlton, L. M.  
2025
  - **Access to Surgical Care After Newly Acquired Insurance Enrollment.** *Annals of surgery*  
Chen, A. T., Haddad, D., Eisinger, E., Delgado, M. K., Kern, J. A., Knowlton, L. M., Lile, D., Morgan, A. U., Ramadan, O. I., Xu, L., Kaufman, E. J.  
2025
  - **Factors contributing to long term Medicaid sustainment among burn patients enrolled via California's Hospital Presumptive Eligibility program.** *Journal of burn care & research : official publication of the American Burn Association*  
Quint, M., Arnow, K., Reid, L., Gibson, A., Hendricks, W., Romanowski, K., Sheckter, C., Knowlton, L. M.  
2025
  - **Hospital setting of endovascular repair influences procedural outcomes in blunt traumatic aortic injury.** *Journal of vascular surgery*  
Cabot, J. H., Zubkov, M., Knowlton, L. M., Romagnoli, A., Kauvar, D. S.  
2025
  - **Medicaid Enrollment After Hospital Presumptive Eligibility in the Emergency Department.** *JAMA health forum*  
Wang, S., Arnow, K., Sakamoto, M. M., Knowlton, L. M.  
2025; 6 (4): e250768
  - **Management of a traumatic splenic injury in the setting of polysubstance use and challenging social factors.** *Trauma surgery & acute care open*  
Arbaugh, C. J., Brakebill, A., Spain, D. A., Knowlton, L. M.  
2025; 10 (1): e001680
  - **Pre- and postinjury financial hardship among trauma survivors: A national survey study.** *The journal of trauma and acute care surgery*  
Clark, N. M., Hernandez, A. H., Knowlton, L. M., Stewart, B. T., Bulger, E. M., Malloy, A., Anderson, G., Dieleman, J. L., Zatzick, D., Scott, J. W.  
2025
  - **Awaiting insurance coverage: Medicaid enrollment and post-acute care use after traumatic injury.** *The journal of trauma and acute care surgery*  
Haddad, D. N., Hatchimonji, J. S., Eisinger, E. C., Chen, A. T., Chreiman, K. M., Ramadan, O. I., Morgan, A. U., Delgado, M. K., Martin, N. D., Seamon, M. J., Knowlton, L. M., Kaufman, E. J.  
2025
  - **Do emergency Medicaid programs improve post-discharge health care access for trauma patients? A statewide mixed-methods study.** *The journal of trauma and acute care surgery*  
Knowlton, L. M., Arnow, K., Cosby, Z., Davis, K., Hendricks, W. D., Gibson, A. B., Chen, P., Morris, A. M., Wagner, T. H.  
2024
  - **Taking action to achieve health equity and eliminate healthcare disparities within acute care surgery.** *Trauma surgery & acute care open*  
McCrum, M. L., Zakrisson, T. L., Knowlton, L. M., Bruns, B., Kao, L. S., Joseph, K. A., Berry, C.  
2024; 9 (1): e001494
  - **Emergency Medicaid enrollment after traumatic injury predicts long-term health care utilization.** *The journal of trauma and acute care surgery*  
Haddad, D. N., Eisinger, E., Hatchimonji, J. S., Chen, A. T., Ramadan, O. I., Morgan, A. U., Lile, D. J., Delgado, M. K., Reese, J., Seamon, M. J., Martin, N. D., Reilly, P. M., Knowlton, et al  
2024
  - **Does preperitoneal packing increase venous thromboembolism risk among trauma patients? A prospective multicenter analysis across 17 level I trauma centers.** *The journal of trauma and acute care surgery*  
Knowlton, L. M., Sauaia, A., Moore, E. E., Knudson, M. M., CLOTT Study Group  
2024

- **Hospital Presumptive Eligibility Emergency Medicaid Programs: An Opportunity for Continuous Insurance Coverage?** *Medical care*  
Knowlton, L. M., Arnow, K., Trickey, A. W., Tran, L. D., Harris, A. H., Morris, A. M., Wagner, T. H.  
2024
- **Small bowel obstruction due to a migrated pyloric stent.** *Trauma surgery & acute care open*  
Agolia, J. P., Wang, S., Fisher, A., Bryan, J. L., Knowlton, L. M.  
2024; 9 (1): e001443
- **Value in Acute Care Surgery, Part 3: Defining Value in Acute Surgical Care - It Depends on the Perspective.** *The journal of trauma and acute care surgery*  
Ayoung-Chee, P. R., Gore, A. V., Bruns, B., Knowlton, L. M., Nahmias, J., Davis, K. A., Leichtle, S., Ross, S. W., Scherer, L. R., Velopulos, C., Martin, R. S., Staudenmayer, K. L.  
2024
- **Management of Uncomplicated Appendicitis in Adults: A Nationwide Analysis From 2018 to 2019.** *The Journal of surgical research*  
Korah, M., Tennakoon, L., Knowlton, L. M., Tung, J., Spain, D. A., Ko, A.  
2024; 298: 307-315
- **Severe intracranial and intra-abdominal hemorrhage: timing is everything.** *Trauma surgery & acute care open*  
Farooqi, N. B., Wong, S. Y., Wang, S., Knowlton, L. M.  
2024; 9 (1): e001434
- **Firearm-Related Injuries and the US Opioid and Other Substance Use Epidemic: A Nationwide Evaluation of Emergency Department Encounters.** *The Journal of surgical research*  
Tennakoon, L., Ko, A., Knight, A. W., Nassar, A. K., Wu, R., Spain, D. A., Knowlton, L. M.  
2024; 298: 128-136
- **Managing career transitions in the profession of acute care surgery.** *Trauma surgery & acute care open*  
Fitzgerald, C. A., Dumas, R. P., Cripps, M. W., Gurney, J. M., Davis, K. A., Knowlton, L. M.  
2024; 9 (1): e001334
- **Large uterine fibroids causing a closed loop small bowel obstruction following uterine fibroid embolization.** *Trauma surgery & acute care open*  
Antono, A. C., Najar, J., Wong, S. Y., Junn, J., Knowlton, L. M.  
2024; 9 (1): e001425
- **Financial Toxicity Part II: A Practical Guide to Measuring and Tracking Long-Term Financial Outcomes Among Acute Care Surgery.** *The journal of trauma and acute care surgery*  
Knowlton, L. M., Scott, J. W., Dowzicky, P., Murphy, P., Davis, K. A., Staudenmayer, K., Martin, R. S.  
2024
- **Weight-based enoxaparin thromboprophylaxis in young trauma patients: analysis of the CLOTT-1 registry.** *Trauma surgery & acute care open*  
Lombardo, S., McCrum, M., Knudson, M. M., Moore, E. E., Kornblith, L., Brakenridge, S., Bruns, B., Cipolle, M. D., Costantini, T. W., Crookes, B., Haut, E. R., Kerwin, A. J., Kiraly, et al  
2024; 9 (1): e001230
- **Cholecystocolonic fistula: an unusual presentation of large bowel obstruction.** *Trauma surgery & acute care open*  
Knight, A. W., Wu, R., Tennakoon, L., Knowlton, L. M.  
2024; 9 (Suppl 1): e001242
- **A Qualitative Study of Emergency Medicaid Programs From the Perspective of Hospital Stakeholders.** *The Journal of surgical research*  
Boncompagni, A. C., Handley, T. J., Sasnal, M., Morris, A. M., Knowlton, L. M.  
2023; 295: 530-539
- **Delayed hollow viscus injury with an occult seatbelt abrasion presenting as a small bowel obstruction.** *Trauma case reports*  
Shideler, B. L., Berera, D. C., Knowlton, L. M., Knight, A. W.  
2023; 48: 100934
- **State-Level Variability in Hospital Presumptive Eligibility Programs.** *JAMA network open*  
Gibson, A. B., Hendricks, W. D., Arnow, K., Tran, L. D., Wagner, T. H., Knowlton, L. M.

2023; 6 (11): e2345244

- **Do Hospital-Based Emergency Medicaid Programs Benefit Trauma Centers? A Mixed-Methods Analysis.** *The journal of trauma and acute care surgery*  
Knowlton, L. M., Logan, D. S., Arnow, K., Hendricks, W. D., Gibson, A. B., Tran, L. D., Wagner, T. H., Morris, A. M.  
2023
- **An Open-Source Curriculum to Teach Practical Academic Research Skills.** *Annals of surgery open : perspectives of surgical history, education, and clinical approaches*  
Lee, J. J., Korndorffer, J. R., Knowlton, L. M., Choi, J.  
2023; 4 (3): e329
- **Does tranexamic acid increase venous thromboembolism risk among trauma patients? A prospective multicenter analysis across 17 level I trauma centers.** *Injury*  
Knowlton, L. M., Arnow, K., Trickey, A. W., Sauaia, A., Knudson, M. M.  
2023: 111008
- **Glasgow Coma Scale Intubation Thresholds and Outcomes of Patients With Traumatic Brain Injury: The Need for Tailored Practice Management Guidelines.** *The American surgeon*  
Elkbuli, A., Breeding, T., Ngatuvai, M., Patel, H., Andrade, R., Rosander, A., Knowlton, L. M., Liu, H., Ang, D.  
2023: 31348231192062
- **TRENDS IN DISPARITIES RESEARCH ON TRAUMA AND ACUTE CARE SURGERY OUTCOMES: A 10-YEAR SYSTEMATIC REVIEW OF ARTICLES PUBLISHED IN THE JOURNAL OF TRAUMA AND ACUTE CARE SURGERY.** *The journal of trauma and acute care surgery*  
Breeding, T., Ngatuvai, M., Rosander, A., Maka, P., Davis, J., Knowlton, L. M., Hoops, H., Elkbuli, A.  
2023
- **Bias in the trauma bay: A multicenter qualitative study on team communication.** *The journal of trauma and acute care surgery*  
Bankhead, B. K., Bichard, S. L., Seltzer, T., Thompson, L. A., Chambers, B., Davis, B., Knowlton, L. M., Tatebe, L. C., Vella, M. A., Dumas, R. P.  
2023; 94 (6): 771-777
- **Organ donation in the surgical ICU: an American Association for the Surgery of Trauma Critical Care Committee clinical consensus document.** *Trauma surgery & acute care open*  
Seshadri, A., Cuschieri, J., Kaups, K. L., Knowlton, L. M., Kutcher, M. E., Pathak, A., Rappold, J., Rinderknecht, T., Stein, D. M., Young, J., Michetti, C. P.  
2023; 8 (1): e001107
- **Quality care is equitable care: a call to action to link quality to achieving health equity within acute care surgery.** *Trauma surgery & acute care open*  
Knowlton, L. M., Zakrisson, T., Kao, L. S., McCrum, M. L., Agarwal, S., Bruns, B., Joseph, K. A., Berry, C.  
2023; 8 (1): e001098
- **Financial Toxicity after Trauma & Acute Care Surgery: From Understanding to Action.** *The journal of trauma and acute care surgery*  
Scott, J. W., Knowlton, L. M., Murphy, P., Neiman, P. U., Martin, R. S., Staudenmayer, K.  
2023
- **Evaluating Emergency Medicaid Program Policy Changes During the COVID-19 Pandemic.** *The Journal of surgical research*  
Handley, T. J., Boncompagni, A. C., Arnow, K., Sasnal, M., Day, H. S., Trickey, A., Morris, A. M., Knowlton, L. M.  
2023; 289: 97-105
- **Developing an Inpatient Relationship Centered Communication Curriculum (I-RCCC) rounding framework for surgical teams.** *BMC medical education*  
Nassar, A. K., Weimer-Elder, B., Yang, R., Kline, M., Dang, B. K., Spain, D. A., Knowlton, L. M., Valdez, A. B., Korndorffer, J. R., Johnson, T.  
2023; 23 (1): 137
- **Trauma Activation Fees-A Fair Approach to Reimburse Trauma Readiness Costs or a Pathway to Profitability?** *JAMA network open*  
Knowlton, L. M., Haut, E. R.  
2023; 6 (1): e2252526
- **Power of mentorship for civilian and military acute care surgeons: identifying and leveraging opportunities for longitudinal professional development.** *Trauma surgery & acute care open*

- Knowlton, L. M., Butler, W. J., Dumas, R. P., Bankhead, B. K., Meizoso, J. P., Bruns, B., Van Gent, J., Kaafarani, H. M., Martin, M. J., Namias, N., Stein, D. M., Tadlock, M. D., Martin, et al  
2023; 8 (1): e001049
- **Insurance churn after adult traumatic injury: a national evaluation among a large private insurance database.** *The journal of trauma and acute care surgery*  
Fu, S. J., Arnow, K., Barreto, N. B., Aouad, M., Trickey, A. W., Spain, D. A., Morris, A., Knowlton, L.  
2022
  - **Non-Surgical Management and Analgesia Strategies for Older Adults with Multiple Rib Fractures: a Systematic Review, Meta-Analysis, and Practice Management Guideline from the Eastern Association for the Surgery of Trauma.** *The journal of trauma and acute care surgery*  
Mukherjee, K., Schubl, S. D., Tominaga, G., Cantrell, S., Kim, B., Haines, K. L., Kaups, K. L., Barraco, R., Staudenmayer, K., Knowlton, L. M., Shiroff, A. M., Bauman, Z. M., Brooks, et al  
2022
  - **A National Evaluation of Emergency General Surgery Outcomes Among Hospitalized Cardiac Patients.** *The Journal of surgical research*  
Tennakoon, L., Hakes, N. A., Nassar, A. K., Spain, D. A., Knowlton, L. M.  
2022; 283: 24-32
  - **Evaluating the Impact of the Covid-19 Pandemic on Emergency Medicaid Programs: Have Insurance Rates Improved among Trauma Patients?**  
Handley, T. J., Boncompagni, A., Arnow, K. D., Sasnal, M., Trickey, A. W., Morris, A. M., Knowlton, L.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S88
  - **Faculty Lead Coaching as a Method to Enhance Feedback Culture and Communication Skills Development in Surgical Education-Needs Assessment (Study in Progress)**  
Nassar, A., Sasnal, M., Tung, J., Ko, A., Esquivel, M., Knowlton, L.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S74
  - **Firearm-Related Injuries and the US Opioid Epidemic: A Nationwide Evaluation of Emergency Department Encounters**  
Tennakoon, L. D., Nassar, A. K., Wanberg, J. A., Knowlton, L.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S45-S46
  - **EMERGENCY MEDICAID PROGRAMS MAY BE AN EFFECTIVE MEANS OF PROVIDING SUSTAINED INSURANCE AMONG TRAUMA PATIENTS: A STATEWIDE LONGITUDINAL ANALYSIS.** *The journal of trauma and acute care surgery*  
Knowlton, L. M., Tran, L. D., Arnow, K., Trickey, A. W., Morris, A. M., Spain, D. A., Wagner, T. H.  
2022
  - **Developing and Leading a Sustainable Organization for Early Career Acute Care Surgeons: Lessons from the Inaugural AAST Associate Member Council.** *The journal of trauma and acute care surgery*  
Dumas, R. P., Bankhead, B. K., Coleman, J. R., Dhillion, N. K., Meizoso, J. P., Bessoff, K., Butler, W. J., Strickland, M., Dultz, L. A., Davis, K., Bulger, E. M., Reilly, P. M., Croce, et al  
2022
  - **The Need to Routinely Convert Emergency Cricothyroidotomy to Tracheostomy: A Systematic Review and Meta-Analysis.** *Journal of the American College of Surgeons*  
Choi, J., Anderson, T. N., Sheira, D., Sousa, J., Borghi, J. A., Spain, D. A., Knowlton, L. M.  
2022; 234 (5): 947-952
  - **Introducing advanced surgical tasks simulation for surgical training.** *Annals of medicine and surgery (2012)*  
Tuma, F., Knowlton, L. M., Nassar, A. K.  
2022; 77: 103568
  - **Data Resources for Evaluating the Economic and Financial Consequences of Surgical Care in the United States.** *The journal of trauma and acute care surgery*  
Scott, J. W., Ayoung-Chee, P., Lester, E. L., Bruns, B. R., Davis, K. A., Gore, A., Knowlton, L. M., Liu, C., Martin, R. S., Oh, E. J., Ross, S. W., Wandling, M., Minei, et al  
2022
  - **Building a Trainee-led Research Community to Propel Academic Productivity in Health Services Research.** *Journal of surgical education*  
Choi, J., Tennakoon, L., Khan, S., Jaramillo, J. D., Rajasingh, C. M., Hakes, N. A., Forrester, J. D., Knowlton, L. M., Nassar, A. K., Weiser, T. G., Spain, D. A.

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