



David A. Spain, MD

Professor of Surgery (General Surgery)

Surgery - General Surgery

CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Dr. David A. Spain is a Professor of Acute Care Surgery. His clinical areas of specialty are emergency and elective general surgery, trauma and critical care. His research focus is assessment of clinical care, systems of care and assessment of stress response and PTSD after trauma. He is a President of the American Association for the Surgery of Trauma and was a Councilor of the American Board of Surgery and Director of the Surgical Critical Care board. He is the editor of the textbook Scientific American's Critical Care of the Surgical Patient. Dr. Spain is also the General Surgery Residency Program Director at Stanford.

CLINICAL FOCUS

- Critical Care Medicine
- Trauma Surgery
- Splenectomy
- Hernia, Abdominal
- Cholecystectomy, Laparoscopic
- Surgical Critical Care

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Surgery - General Surgery
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chief of Trauma and Critical Care Surgery, Stanford University, (2001-2023)

HONORS AND AWARDS

- General Surgery Chief Residents Award, Stanford (2018)
- Teaching Award, Stanford/Kaiser Emergency Medicine Residency (2004 and 2008)
- Collins Teaching Award, General Surgery Residency Program (2005)

- General Surgery Chief Residents Award, Stanford (2010)

PROFESSIONAL EDUCATION

- Board Certification: General Surgery, American Board of Surgery (1993)
- Board Certification: Surgical Critical Care, American Board of Surgery (1996)
- Fellowship: University of Louisville Hospital (1994) KY
- Residency: Robert Wood Johnson University Hospital (1992) NJ
- MD, Wayne State University , Medicine (1986)
- BS/Honors College, Michigan State University , Biochemistry (1982)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our main areas of interest are clinical research in shock, sepsis, multiple organ failure and ICU pneumonia, as well as organizational characteristics of well functioning trauma centers and systems.

We have also developed a robust program in Health Services Research focused on access to specialized, high acuity care and the economic impact of this on the hospital and healthcare system.

We also have an ongoing, multi-centered NIH funded study on "Development of a Risk Factor Screen for Mental Health Problems after Sudden Illness or Injury." This study runs through 2021.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Surgical Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **State Trauma Center Designation Criteria and Expansion of For-Profit vs Nonprofit Trauma Centers.** *JAMA network open*
Narayan, S., Cho, N. Y., Chattopadhyay, K., Spain, D. A., Staudenmayer, K., Choi, J.
2026; 9 (5): e2613256
- **Consent Is a Conversation: Where Artificial Intelligence Fits and Where It May Not.** *Journal of the American College of Surgeons*
Bidare, D. S., Spain, D. A.
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
- **Continuous monitoring of intra-abdominal pressure: cumulative pressure exposure predicts early acute kidney injury in animal model.** *World journal of emergency surgery : WJES*
Liao, C., Chen, C., Wang, Y., Ribeiro, M. A., Lin, W., Ho, D., Spain, D. A., Cheng, C.
2026
- **Redefining Professionalism in Medicine-Balancing Clinical Duties, Wellness, and Self-Advocacy.** *JAMA network open*
Han, B. J., Spain, D. A.
2026; 9 (3): e260666

- **Automating Injury Severity Score Calculation Using Large Language Models: A Feasibility Study With Large Language Model-Assisted Trauma Scoring.** *The Journal of surgical research*
Chan, S. Y., Liao, P. C., Jow, A., Lin, Y. J., Fang, K. Y., Cheng, C. T., Liao, C. H., Chen, C. C., Spain, D. A.
2025; 317: 560-566
- **The Surgical Residency of Tomorrow: A Case for Authenticity.** *Journal of the American College of Surgeons*
Klaris, G. E., Branch, R., Wang, L., Nobuhara, C. K., Spain, D. A.
2025
- **Evaluation of the Quality of General Surgery Entrustable Professional Activities Using the EQual Rubric.** *Journal of surgical education*
Seale, S., Gan, C. Y., Liebert, C. A., Kempenich, J. W., Dent, D. L., Spain, D. A., Korndorffer, J. R.
2025: 103747
- **Traumatic brain injury (TBI) triage tool for low-risk patients: standardizing TBI care at a Level 1 trauma center.** *Trauma surgery & acute care open*
Villarreal, J. A., Anderson, M., Gallegos, K., Harris, O., Hirsch, K., Lumba-Brown, A., Ravi, S., Seifert, K., Spain, D., Staudenmayer, K., Threlkeld, Z., Forrester, J. D.
2025; 10 (4): e001892
- **Application of evidence into practice in trauma: the Purpose-to-Practice (P2P) approach to consensus generation.** *Trauma surgery & acute care open*
Guido, J. M., Krause, M., Frankel, B., Hillmer, E., Knight, A. W., Grider, K. T., Moreno, A. N., LaGrone, L. N.
2025; 10 (Suppl 5): e002061
- **A Case Study of AI-Enabled Software as a Medical Device Cleared by the FDA for Assessing Hemorrhage Risk Index (APPRAISE-HRI) after Trauma.** *NEJM AI*
Frock, A., Robbins, J. T., Vital-Lopez, F. G., Desai, V., Doros, G., Sands, B. E., Prabhakaran, A., Nemeth, C., Rule, G. T., Sperry, J. L., Guyette, F. X., Wisniewski, S. R., Moore, et al
2025; 2 (11)
- **Factors Associated With Time to Surgery of Geriatric Hip Fractures: An Analysis of the American College of Surgeons' Trauma Quality-Improvement Program Database.** *The Journal of the American Academy of Orthopaedic Surgeons*
Zhuang, T., Shapiro, L. M., Koltsov, J. C., Harris, A. H., Baker, L. C., Morris, A., Gardner, M. J., Tennakoon, L., Spain, D. A., Kamal, R. N.
2025
- **A Nationwide Analysis of Outcomes, Healthcare Encounters, and Costs of Small Bowel Obstruction.** *The Journal of surgical research*
Tennakoon, L., Min, J. G., Wu, R., Spain, D. A., Hindin, D.
2025; 315: 41-47
- **Allyship in surgery: Moving beyond awareness into action** *AMERICAN JOURNAL OF SURGERY*
Priddy, H. A., Spain, D. A.
2025; 247: 116472
- **Association Among Fragmented Trauma Care, Mortality, and Major Complications: Optimizing Care for the Injured Beyond the Initial Hospitalization.** *Annals of surgery open : perspectives of surgical history, education, and clinical approaches*
Wang, B. K., Green, A., Zogg, C. K., Tennakoon, L., Spain, D. A., Choi, J.
2025; 6 (3): e591
- **Application of Evidence into Practice in Trauma: The Purpose to Practice (P2P) Approach to Consensus Generation.** *medRxiv : the preprint server for health sciences*
Guido, J. M., Krause, M., Frankel, B., Hillmer, E., Knight, A. W., Grider, K., Moreno, A. N., LaGrone, L. N., Bixby, P., Bonne, S., Bulger, E. M., Cain, J. G., Chastek, et al
2025
- **Making the case for value of acute care surgery: American Association for the Surgery of Trauma panel on overcoming local challenges.** *The journal of trauma and acute care surgery*
Kim, P., Murphy, P., Kelly, E., Haddad, D. N., Martin, R. S., Spain, D. A., Smith, J. W., Savage, S. A., Staudenmayer, K. L.
2025
- **Diversity and Expertise Among Authors of U.S. Surgical Society Clinical Guidelines.** *The American surgeon*
Berg, A., Chattopadhyay, K., Chung, Y., Tang, K., Cho, N. Y., Tennakoon, L., Spain, D. A., Choi, J.

2025: 31348251367049

- **Venous Thromboembolism Prophylaxis Practice Patterns, Outcomes, and Risk Stratification after Surgery for Inflammatory Bowel Disease: A National Surgical Quality Improvement Program IBD Collaborative Study.** *Diseases of the colon and rectum*
Holubar, S. D., Eisenstein, S., Bordeianou, L., Chapman, W., Crowell, K., Davids, J. S., Hrabe, J., Justiniano, C., Kapadia, M. R., Kin, C., Krane, M., Lee, E., Olortegui, et al
2025
- **Objectivity in the Residency Application Process-Reply.** *JAMA*
Agolia, J., Spain, D. A., Choi, J.
2025
- **Prioritizing circulation over airway to improve survival in trauma patients with exsanguinating injuries: a world society of emergency surgery-panamerican trauma consensus statement.** *World journal of emergency surgery : WJES*
Ferrada, P., Shafique, S., Brenner, M., Burlew, C., Catena, F., Coleman, J., Coleman, J., Demetriades, D., Demoya, M., Di Saverio, S., Dissanaika, S., Dransfield, T., DuBose, et al
2025; 20 (1): 47
- **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
- **Diminishing Objectivity in the Residency Application Process.** *JAMA*
Agolia, J., Green, A., Spain, D. A., Choi, J.
2025
- **Feasibility and accuracy of continuous intraabdominal pressure monitoring with a capsular device in human pilot trial.** *World journal of emergency surgery : WJES*
Liao, C. H., Spain, D. A., Chen, C. C., Cheng, C. T., Lin, W. C., Ho, D. R., Lin, H. F., Catena, F.
2025; 20 (1): 7
- **Time delay and evidence profiles forming clinical recommendations of US surgical society guidelines.** *Surgery*
Berg, A., Cho, N. Y., Chattopadhyay, K., Narayan, S., Alawa, J., Spain, D. A., Choi, J.
2024: 108916
- **Understanding Gun Violence among Our Youth: A National Evaluation of the Association Between Firearm Injuries and Mental Health Disorders**
Hakes, N., Tennakoon, L., Spain, D. A., Knowlton, L. M.
LIPPINCOTT WILLIAMS & WILKINS.2024: S555-S556
- **Elimination of the Percentile Score From the Surgical ABSITE-The Program Director Perspective.** *JAMA surgery*
Sarosi, G. A., Spain, D. A., Johnson, S.
2024
- **Resident-Applicant Buddy Program Increases Applicant Interest and Program Transparency.** *Journal of surgical education*
Shearer, J., Ngongoni, R. F., Yelorda, K., Nobuhara, C., Lin, D. T., Gahagan, J., Dua, M., Spain, D. A., Liebert, C. A.
2024; 81 (11): 1792-1797
- **Ethnoracial Differences in Social Determinants of Health and Acute Mental Health Symptoms Among Adults Hospitalized After Emergency Care** *JOURNAL OF HEALTH CARE FOR THE POOR AND UNDERSERVED*
Wright, B., Carlson, E., Barlow, M., Flores, M. W., Spain, D. A., Le Cook, B.
2024; 35 (3)
- **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
- **Delivering Impactful Scientific Oral Presentations.** *JAMA surgery*
Choi, J., Spain, D. A.

2024

- **The burden of readmissions after rib fractures among older adults.** *Surgery*
Choi, J., Hur, D. G., Tennakoon, L., Spain, D. A., Staudenmayer, K.
2024
- **Serratus anterior plane block improves pain and incentive spirometry volumes in trauma patients with multiple rib fractures: a prospective cohort study.** *Trauma surgery & acute care open*
Sadauskas, V., Fofana, M., Brunson, D., Choi, J., Spain, D., Quinn, J. V., Duanmu, Y.
2024; 9 (1): e001183
- **Comparative Analysis of Frailty Scores for Predicting Adverse Outcomes in Hip Fracture Patients: Insights from the United States National Inpatient Sample.** *Journal of personalized medicine*
Forssten, M. P., Cao, Y., Mohammad Ismail, A., Tennakoon, L., Spain, D. A., Mohseni, S.
2024; 14 (6)
- **Palliative Intervention for Malignant Bowel Obstruction Comes at a Cost: A National Inpatient Study.** *The American surgeon*
Sun, B. J., Tennakoon, L., Spain, D. A., Lee, B.
2024: 31348241256083
- **Pediatric Trauma Center Access, Regional Injury Burden, and Socioeconomic Disadvantage.** *JAMA surgery*
Hur, D. G., Ren, A. L., Yue, T. M., Spain, D. A., Choi, J.
2024
- **Career Trajectory After General Surgery Residency: Do Academic Program Graduates Pursue Academic Surgery?** *Annals of surgery*
Green, A., Sommer, E. R., Johnson, M. R., Gonzalez, H., Sia, T., Spain, D. A., Choi, J.
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
- **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
- **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
- **Angioembolization for splenic injuries: does it help? Retrospective evaluation of grade III–V splenic injuries at two level I trauma centers** *Trauma & Acute Care Open*
Ahmad, M., Lee, D., Tennakoon, L., Chao, T. E., Spain, D., Staudenmayer, K.
2024; 9
- **Performance replication of the Hospital Mental Health Risk Screen in ethnoracially diverse U.S. patients admitted through emergency care.** *PloS one*
Carlson, E. B., Barlow, M. R., Palmieri, P. A., Shieh, L., Mellman, T. A., Cooksey, E., Parker, J., Williams, M., Spain, D. A.
2024; 19 (10): e0311256
- **Development and Initial Performance of the Hospital Mental Health Risk Screen.** *Journal of the American College of Surgeons*
Carlson, E. B., Palmieri, P. A., Barlow, M. R., Macia, K., Bruns, B. R., Shieh, L., Spain, D. A.
2023
- **The acute care surgery model and elective surgery.** *The journal of trauma and acute care surgery*
Spain, D. A., Cryer, H. G.
2023; 95 (5): e42-e44

- **Social Determinants of Patients with Acute Uncomplicated Appendicitis: A National Evaluation of Ambulatory Surgery Centers**
Tennakoon, L., Nassar, A., Spain, D. A., Knowlton, L. M.
LIPPINCOTT WILLIAMS & WILKINS.2023: S261-S262
- **Development and Validation of a Model to Quantify Injury Severity in Real Time.** *JAMA network open*
Choi, J., Vendrow, E. B., Moor, M., Spain, D. A.
2023; 6 (10): e2336196
- **TraumaICDBERT, A Natural Language Processing Algorithm to Extract Injury ICD-10 Diagnosis Code from Free Text.** *Annals of surgery*
Choi, J., Chen, Y., Sivura, A., Vendrow, E. B., Wang, J., Spain, D. A.
2023
- **Mental health symptoms are comparable in patients hospitalized with acute illness and patients hospitalized with injury.** *PloS one*
Carlson, E. B., Shieh, L., Barlow, M. R., Palmieri, P. A., Yen, F., Mellman, T. A., Williams, M., Williams, M. Y., Chandran, M., Spain, D. A.
2023; 18 (9): e0286563
- **The relationship and predictive value of dementia and frailty for mortality in patients with surgically managed hip fractures.** *European journal of trauma and emergency surgery : official publication of the European Trauma Society*
Ioannidis, I., Forssten, M. P., Mohammad Ismail, A., Cao, Y., Tennakoon, L., Spain, D. A., Mohseni, S.
2023
- **The relationship and predictive value of dementia and frailty for mortality in patients with surgically managed hip fractures** *EUROPEAN JOURNAL OF TRAUMA AND EMERGENCY SURGERY*
Ioannidis, I., Forssten, M., Ismail, A., Cao, Y., Tennakoon, L., Spain, D. A., Mohseni, S.
2023
- **Impact of Medicaid Expansion and Firearm Legislation on Cost of Firearm Injuries.** *American journal of preventive medicine*
Brough, S. C., Tennakoon, L., Spitzer, S. A., Thomas, A., Forrester, J. D., Spain, D. A., Weiser, T. G.
2023
- **For-Profit Status and Geographic Distribution of Trauma Centers in the US.** *JAMA surgery*
Handley, T. J., Kang, A., Alawa, J., Arnow, K., Spain, D. A., Choi, J.
2023
- **Validation of the orthopedic frailty score for measuring frailty in hip fracture patients: a cohort study based on the United States National inpatient sample.** *European journal of trauma and emergency surgery : official publication of the European Trauma Society*
Forssten, M. P., Cao, Y., Mohammad Ismail, A., Ioannidis, I., Tennakoon, L., Spain, D. A., Mohseni, S.
2023
- **Survey of venous thromboembolism prophylaxis in trauma patients: current prescribing practices and concordance with clinical practice guidelines.** *Trauma surgery & acute care open*
Alexander, K. M., Butts, C. C., Lee, Y. L., Kutcher, M. E., Polite, N., Haut, E. R., Spain, D., Berndtson, A. E., Costantini, T. W., Simmons, J. D.
2023; 8 (1): e001070
- **FasterRib: A Deep Learning Algorithm to Automate Identification and Characterization of Rib Fractures on Chest Computed Tomography Scans.** *The journal of trauma and acute care surgery*
Edamadaka, S., Brown, D. J., Swaroop, R., Kolodner, M., Spain, D. A., Forrester, J. D., Choi, J.
2023
- **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
- **Ensuring excellence in patient care, research, and education: thoughts on leadership and teamwork.** *Trauma surgery & acute care open*
Spain, D. A.
2023; 8 (1): e001027
- **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

- **Contributions of SCCPDS to the Training of Surgeons.** *The journal of trauma and acute care surgery*
Ali, Y., Davis, K., Chiu, W., Cioffi, W., Luchette, F., Tisherman, S., Spain, D.
2022
- **Precision Medicine as a Blueprint for Surgical Education: Concepts and Competencies.** *Annals of surgery*
Montgomery, K. B., Sarosi, G. A., Spain, D. A., Lindeman, B.
2022
- **Appraising the Quality of Development and Reporting in Surgical Prediction Models.** *JAMA surgery*
Marwaha, J. S., Chen, H. W., Habashy, K., Choi, J., Spain, D. A., Brat, G. A.
2022
- **Maturing as an Impactful Academic Surgeon during Residency Research Time.** *Annals of surgery*
Choi, J., Spain, D. A.
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
- **Development and Initial Performance of a Hospital Mental Health Risk Screen**
Spain, D. A., Palmieri, P. A., Shieh, L., Bruns, B. R., Williams, M., Carlson, E. B.
LIPPINCOTT WILLIAMS & WILKINS.2022: S43
- **Management of Uncomplicated Appendicitis in Adults: A Nationwide Analysis of Healthcare Use, Cost, and Outcomes From 2018-2019**
Tennakoon, L., Korah, M. M., Tung, J. T., Spain, D. A., Ko, A.
LIPPINCOTT WILLIAMS & WILKINS.2022: S33
- **Disparities in detection of suspected child abuse.** *Journal of pediatric surgery*
Diyaolu, M., Ye, C., Huang, Z., Han, R., Wild, H., Tennakoon, L., Spain, D. A., Chao, S. D.
2022
- **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
- **Explainable Machine Learning to Bring Database to the Bedside: Development and Validation of the TROUT (Trauma fRailty OUTcomes) Index, a Point-of-Care Tool to Prognosticate Outcomes after Traumatic Injury based on Frailty.** *Annals of surgery*
Choi, J., Anderson, T., Tennakoon, L., Spain, D. A., Forrester, J. D.
2022
- **Racial/ethnic differences in acute and longer-term posttraumatic symptoms following traumatic injury or illness.** *Psychological medicine*
Cruz-Gonzalez, M., Alegria, M., Palmieri, P. A., Spain, D. A., Barlow, M. R., Shieh, L., Williams, M., Srirangam, P., Carlson, E. B.
2022: 1-10
- **Access to American College of Surgeons Committee on Trauma-Verified Trauma Centers in the US, 2013-2019.** *JAMA*
Choi, J., Karr, S., Jain, A., Harris, T. C., Chavez, J. C., Spain, D. A.
2022; 328 (4): 391-393
- **Access to American College of Surgeons Committee on Trauma-Verified Trauma Centers in the US, 2013-2019** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Choi, J., Karr, S., Jain, A., Harris, T. C., Chavez, J. C., Spain, D. A.
2022; 328 (4): 391-393
- **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., Dhillon, 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

- **Management of an internal hernia through the foramen of Winslow.** *Trauma surgery & acute care open*
Titan, A. L., Garagliano, J. M., Spain, D.
2022; 7 (1): e000960
- **Management of an internal hernia through the foramen of Winslow** *TRAUMA SURGERY & ACUTE CARE OPEN*
Titan, A., Garagliano, J. M., Spain, D.
2022; 7 (1)
- **Improving tracheostomy delivery for trauma and surgical critical care patients: timely trach initiative.** *BMJ open quality*
McShane, E. K., Sun, B. J., Maggio, P. M., Spain, D. A., Forrester, J. D.
2022; 11 (2)
- **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
- **A decade of hospital costs for firearm injuries in the United States by region, 2005-2015: government healthcare costs and firearm policies.** *Trauma surgery & acute care open*
Spitzer, S. A., Forrester, J. D., Tennakoon, L., Spain, D. A., Weiser, T. G.
2022; 7 (1): e000854
- **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.
2022
- **Professionalism of Admitting and Consulting Services and Trauma Patient Outcomes.** *Annals of surgery*
Cooper, W. O., Hickson, G. B., Guillamondegui, O. D., Cannon, J. W., Charles, A. G., Hoth, J. J., Alam, H. B., Tillou, A., Luchette, F. A., Skeete, D. A., Domenico, H. J., Meredith, J. W., Brennan, et al
2022
- **"Be Worthy".** *The journal of trauma and acute care surgery*
Spain, D. A.
1800; 92 (1): 4-11
- **Contemporary management of obturator hernia.** *Trauma surgery & acute care open*
Anderson, T., Bessooff, K. E., Spain, D., Choi, J.
2022; 7 (1): e001011
- **The Weight of Surgical Knowledge: Navigating Information Overload.** *Annals of surgery*
Choi, J., Stave, C., Spain, D. A.
2021
- **Prospective study of long-term quality-of-life after rib fractures.** *Surgery*
Choi, J., Khan, S., Sheira, D., Hakes, N. A., Aboukhater, L., Spain, D. A.
1800
- **Challenging Traditional Paradigms in Posttraumatic Pulmonary Thromboembolism.** *JAMA surgery*
Knudson, M. M., Moore, E. E., Kornblith, L. Z., Shui, A. M., Brakenridge, S., Bruns, B. R., Cipolle, M. D., Costantini, T. W., Crookes, B. A., Haut, E. R., Kerwin, A. J., Kiraly, L. N., Knowlton, et al
1800: e216356
- **Trauma and Acute Care Surgery: The Evolution of a Specialty.** *The journal of trauma and acute care surgery*
Richardson, J. D., Spain, D. A., Livingston, D. H.
2021
- **Outcome-specific Injury Scores (OSIS): Development and Validation of Tailored Prediction Tools for Injured Older Adults**
Choi, J., Tennakoon, L., Spain, D. A., Staudenmayer, K. L.

ELSEVIER SCIENCE INC.2021: E74

- **A National Evaluation of Ambulatory Surgery Utilization Among Emergency General Surgery and Trauma Patients**
Tennakoon, L. D., Hakes, N. A., Spain, D. A., Knowlton, L. M.
ELSEVIER SCIENCE INC.2021: E90
- **Traumatic Injury and Death Among Law Enforcement Officers**
Patil, A., Tennakoon, L., Choi, J., Hakes, N., Spain, D. A., Tung, J.
ELSEVIER SCIENCE INC.2021: E94
- **Financial Burden of Traumatic Injury Amongst the Privately Insured.** *Annals of surgery*
Fu, S. J., Arnow, K., Trickey, A., Spain, D. A., Morris, A., Knowlton, L.
2021
- **Citation Inaccuracies in Influential Surgical Journals.** *JAMA surgery*
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