

Stanford



David A. Spain, MD

David L. Gregg, MD Professor of General Surgery
Surgery - General Surgery

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. David A. Spain is the David L. Gregg, MD Professor and Chief 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 the current President of the American Association for the Surgery of Trauma. He is 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

STANFORD ADVISEES

Med Scholar Project Advisor

Anshal Gupta

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Surgical Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **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
- **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
- **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
- **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
- **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 fRaily 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., Guillaumondegui, 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., Bessoff, 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*
Choi, J., Gupta, A., Kaghazchi, A., Htwe, T. S., Baiocchi, M., Spain, D. A.
2021
- **Factors Associated With General Surgery Residents' Operative Experience During the COVID-19 Pandemic.** *JAMA surgery*
Purdy, A. C., de Virgilio, C., Kaji, A. H., Shields Frey, E., Lee-Kong, S., Inaba, K., Gauvin, J. M., Neville, A. L., Donahue, T. R., Smith, B. R., Salcedo, E. S., Calhoun, K. E., Poola, et al
2021
- **Scoping review of traumatic hemothorax: Evidence and knowledge gaps, from diagnosis to chest tube removal.** *Surgery*
Choi, J., Villarreal, J., Andersen, W., Min, J. G., Touponse, G., Wong, C., Spain, D. A., Forrester, J. D.
2021
- **Practical computer vision application to detect hip fractures on pelvic X-rays: a bi-institutional study.** *Trauma surgery & acute care open*
Choi, J., Hui, J. Z., Spain, D., Su, Y. S., Cheng, C. T., Liao, C. H.
2021; 6 (1): e000705
- **ACQUISITION OF MEDICAID AT THE TIME OF INJURY: AN OPPORTUNITY FOR SUSTAINABLE INSURANCE COVERAGE.** *The journal of trauma and acute care surgery*
Jaramillo, J. D., Arnow, K., Trickey, A. W., Dickerson, K., Wagner, T. H., Harris, A. H., Tran, L. D., Bereksnyei, S., Morris, A. M., Spain, D. A., Knowlton, L. M.
2021
- **A Review of "Will Future Surgeons Be Interested in Trauma Care? Results of a Resident Survey" (1992).** *The American surgeon*
Spain, D. A.
2021: 3134820988821
- **Outcomes after Surgery among Patients Diagnosed with One or More Multi-Drug-Resistant Organisms.** *Surgical infections*
Gupta, A. n., Tennakoon, L. n., Spain, D. A., Forrester, J. D.
2021

- **Evidence-based surgery for laparoscopic appendectomy: A stepwise systematic review.** *Surgery open science*
Bessoiff, K. E., Choi, J., Wolff, C. J., Kashikar, A., Carlos, G. M., Caddell, L., Khan, R. I., Stave, C. D., Spain, D. A., Forrester, J. D.
2021; 6: 29-39
- **Rib Fracture Frailty Index: A Risk-Stratification Tool for Geriatric Patients with Multiple Rib Fractures.** *The journal of trauma and acute care surgery*
Choi, J., Marafino, B. J., Vendrow, E. B., Tennakoon, L., Baiocchi, M., Spain, D. A., Forrester, J. D.
2021
- **Practical Computer Vision Application to Compute Total Body Surface Area Burn: Reappraising a Fundamental Burn Injury Formula in the Modern Era.** *JAMA surgery*
Choi, J., Patil, A., Vendrow, E., Touponse, G., Aboukhater, L., Forrester, J. D., Spain, D. A.
2021
- **Concomitant Sternal Fractures: Harbinger of Worse Pulmonary Complications and Mortality in Patients With Rib Fractures.** *The American surgeon*
Choi, J. n., Mulaney, B. n., Sun, B. n., Trimble, R. n., Tennakoon, L. n., Spain, D. A., Forrester, J. D.
2021: 3134821991978
- **Complication to consider: delayed traumatic hemothorax in older adults** *Trauma Surgery Acute Care Open*
Choi, J., Anand, A., Sborov, K. D., Walton, W., Chow, L., Guillamondegui, O., Dennis, B. M., Spain, D., Staudenmayer, K.
2021
- **Practical computer vision application to detect hip fractures on pelvic X-rays: a bi-institutional study** *Trauma Surgery Acute Care Open*
Choi, J., Hui, J. Z., Spain, D. A., Su, Y., Cheng, C., Liao, C.
2021
- **COVID-19 Impact on Surgical Resident Education and Coping.** *The Journal of surgical research*
Wise, C. E., Berekeyei Merrell, S. n., Sasnal, M. n., Forrester, J. D., Hawn, M. T., Lau, J. N., Lin, D. T., Schmiederer, I. S., Spain, D. A., Nassar, A. K., Knowlton, L. M.
2021; 264: 534-43
- **Heterogeneity in managing rib fractures across non-trauma and level I, II, and III trauma centers.** *American journal of surgery*
Choi, J. n., Kaghazchi, A. n., Dickerson, K. L., Tennakoon, L. n., Spain, D. A., Forrester, J. D.
2021
- **Nationwide Cost-Effectiveness Analysis of Surgical Stabilization of Rib Fractures by Flail Chest Status and Age Groups** *Journal of Trauma and Acute Care Surgery*
Choi, J., Mulaney, B., Laohavinij, W., Trimble, R., Tennakoon, L., Spain, D. A., Salomon, J. A., Goldhaber-Fiebert, J. D., Forrester, J. D.
2021
- **The impact of trauma systems on patient outcomes.** *Current problems in surgery*
Choi, J., Carlos, G., Nassar, A. K., Knowlton, L. M., Spain, D. A.
2021; 58 (1): 100840
- **Management of splenic platelet sequestration in idiopathic thrombocytopenic purpura.** *Trauma surgery & acute care open*
Sceats, L. A., Lipman, K. n., Spain, D. n.
2021; 6 (1): e000693
- **Modified percutaneous tracheostomy in patients with COVID-19.** *Trauma surgery & acute care open*
Sun, B. J., Wolff, C. J., Bechtold, H. M., Free, D., Lorenzo, J., Minot, P. R., Maggio, P. G., Spain, D. A., Weiser, T. G., Forrester, J. D.
2020; 5 (1): e000625
- **The Opioid Epidemic Among Patients with Traumatic Injury: A Nationwide Emergency Department Evaluation**
Tennakoon, L., Hakes, N., Spain, D. A., Knowlton, L. M.
ELSEVIER SCIENCE INC.2020: E253
- **Common, Severe, and Preventable: Agricultural Machinery Trauma in the US**
Hakes, N. A., Jaramillo, J. D., Choi, J., Spain, D. A., Tennakoon, L., Forrester, J. D.
ELSEVIER SCIENCE INC.2020: E231
- **Incidence and Management of Arterial Vascular Trauma in the US**

- Kashikar, A., Choi, J., Tennakoon, L., Spain, D., Arya, S.
ELSEVIER SCIENCE INC.2020: E263–E264
- **Situating Artificial Intelligence in Surgery A Focus on Disease Severity** *ANNALS OF SURGERY*
Korndorffer, J. R., Hawn, M. T., Spain, D. A., Knowlton, L. M., Azagury, D. E., Nassar, A. K., Lau, J. N., Arnow, K. D., Trickey, A. W., Pugh, C. M.
2020; 272 (3): 523–28
 - **Situating Artificial Intelligence in Surgery: A Focus on Disease Severity.** *Annals of surgery*
Korndorffer, J. R., Hawn, M. T., Spain, D. A., Knowlton, L. M., Azagury, D. E., Nassar, A. K., Lau, J. N., Arnow, K. D., Trickey, A. W., Pugh, C. M.
2020; 272 (3): 523-528
 - **Hospital Readmission After Climbing-Related Injury in the United States** *WILDERNESS & ENVIRONMENTAL MEDICINE*
Forrester, J. D., Hunter, K. A., Tennakoon, L., Spain, D. A.
2020; 31 (3): 298–302
 - **Implications of COVID-19 on the General Surgery Match.** *Annals of surgery*
Sell, N. M., Qadan, M., Delman, K. A., Roggin, K. K., Spain, D. A., Phitayakorn, R., Lillemoe, K. D., Mullen, J. T.
2020; 272 (2): e155-e156
 - **The Research Agenda for Stop the Bleed: Beyond Focused Empiricism in Prehospital Hemorrhage Control.** *JAMA network open*
Lu, S. W., Spain, D. A.
2020; 3 (7): e209465
 - **Better characterization of operation for ulcerative colitis through the National surgical quality improvement program: A 2-year audit of NSQIP-IBD.** *American journal of surgery*
Luo, W. Y., Holubar, S. D., Bordeianou, L., Cosman, B. C., Hyke, R., Lee, E. C., Messaris, E., Saraidaridis, J., Scow, J. S., Shaffer, V. O., Smith, R., Steinhagen, R. M., Vaida, et al
2020
 - **Mapping the increasing interest in acute care surgery-Who, why and which fellowship?** *The journal of trauma and acute care surgery*
Gayed, B. N., Zarzaur, B. L., Livingston, D. H., Chiu, W. C., Davis, K. A., Tisherman, S. A., Alam, H. B., Spain, D. A.
2020; 88 (5): 629–35
 - **Coagulopathy and Transfusion Ratios in Pediatric Trauma.** *The journal of trauma and acute care surgery*
Murphy, C., Spain, D. A., Shan, H.
2020
 - **The Operative management in Bariatric Acute abdomen (OBA) Survey: long-term complications of bariatric surgery and the emergency surgeon's point of view** *WORLD JOURNAL OF EMERGENCY SURGERY*
De Simone, B., Ansaloni, L., Sartelli, M., Kluger, Y., Abu-Zidan, F. M., Biffi, W. L., Heyer, A., Coccolini, F., Baiocchi, G., Catena, F., Campanile, F., Mario, D., Raziell, et al
2020; 15 (1)
 - **Regionalization Patterns for Children with Serious Trauma in California (2005-2015): A Retrospective Cohort Study.** *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*
Wang, N. E., Ewbank, C. n., Newton, C. R., Spain, D. A., Pirrotta, E. n., Thomas-Uribe, M. n.
2020: 1–22
 - **Modified percutaneous tracheostomy in patients with COVID-19** *Trauma Surg Acute Care Open*
Sun, B. J., Wolff, C. J., Bechtold, H. M., Free, D., Lorenzo, J., Minot, P. R., Maggio, P. G., Spain, D. A., Weiser, T. G., Forrester, J. D.
2020; 5 (1)
 - **Small Bowel Obstruction: the Sun Also Rises?** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
Zamary, K. n., Spain, D. A.
2020
 - **Mobile application-based guidelines to enhance patient care and provider education in trauma and acute care surgery.** *Trauma surgery & acute care open*
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