

Stanford



David A. Spain, MD

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

CLINICAL OFFICES

900 Blake Wilbur Dr Rm W0048

Garden Level

Palo Alto, CA 94304

Tel (650) 724-4209

Fax (650) 723-8378

ACADEMIC CONTACT INFORMATION

• Alternate Contact

Clinic Referrals

Tel 650-736-7102

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

ADMINISTRATIVE APPOINTMENTS

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

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

Drew Daniel, Anshal Gupta, Erin McShane

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Surgical Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **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
- **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., Bereckneyi, 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
- **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., Guillaumondegui, 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., Bereksnyei 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
- **Practical computer vision application to detect hip fractures on pelvic X-rays: a bi-institutional study.** *Trauma surgery & acute care open*
Choi, J. n., Hui, J. Z., Spain, D. n., Su, Y. S., Cheng, C. T., Liao, C. H.
2021; 6 (1): e000705
- **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
- **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
- **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
- **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., Razieli, 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-Urbe, 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)
 - **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
 - **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
 - **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*
Hakes, N. A., Kethman, W. C., Spain, D. n., Nassar, A. K.
2020; 5 (1): e000479
 - **Pulmonary contusions in patients with rib fractures: The need to better classify a common injury.** *American journal of surgery*
Choi, J. n., Tennakoon, L. n., You, J. G., Kaghazchi, A. n., Forrester, J. D., Spain, D. A.
2020
 - **Implications of COVID-19 on the General Surgery Match.** *Annals of surgery*
Sell, N. M., Qadan, M. n., Delman, K. A., Roggin, K. K., Spain, D. A., Phitayakorn, R. n., Lillemoe, K. D., Mullen, J. T.
2020; 272 (2): e155–e156
 - **Understanding Health Care Utilization and Mortality After Emergency General Surgery in Patients With Underlying Liver Disease.** *The American surgeon*

- Tennakoon, L. n., Baiu, I. n., Concepcion, W. n., Melcher, M. L., Spain, D. A., Knowlton, L. M.
2020; 86 (6): 665–74
- **Placement of Surgical Feeding Tubes Among Patients With Severe Traumatic Brain Injury Requiring Exploratory Abdominal Surgery : Better Early Than Late.** *The American surgeon*
Cha, P. I., Jou, R. M., Spain, D. A., Forrester, J. D.
2020; 86 (6): 635–42
 - **Prospective Study of Short-Term Quality-of-Life After Traumatic Rib Fractures.** *The journal of trauma and acute care surgery*
Choi, J. n., Khan, S. n., Hakes, N. A., Carlos, G. n., Seltzer, R. n., Jaramillo, J. D., Spain, D. A.
2020
 - **Implications of COVID-19 on the General Surgery Match.** *Annals of surgery*
Sell, N. M., Qadan, M. n., Delman, K. A., Roggin, K. K., Spain, D. A., Phitayakorn, R. n., Lillemo, K. D., Mullen, J. T.
2020
 - **Impact of shelter-in-place order for COVID-19 on trauma activations: Santa Clara County, California, March 2020.** *Trauma surgery & acute care open*
Forrester, J. D., Liou, R. n., Knowlton, L. M., Jou, R. M., Spain, D. A.
2020; 5 (1): e000505
 - **What constitutes a 'successful' recovery? Patient perceptions of the recovery process after a traumatic injury.** *Trauma surgery & acute care open*
Rosenberg, G., Zion, S. R., Shearer, E., Berekenyi Merrell, S., Abadilla, N., Spain, D. A., Crum, A. J., Weiser, T. G.
2020; 5 (1): e000427
 - **Mortality After General Surgery Among Hospitalized Patients With Hematologic Malignancy** *Journal of Surgical Research*
Forrester, J. D., Syed, M., Tennakoon, L., Spain, D. A., Knowlton, L. M.
2020; 256: P502-511
 - **Hospital Readmission After Climbing-Related Injury in the United States.** *Wilderness & environmental medicine*
Forrester, J. D., Hunter, K. A., Tennakoon, L. n., Spain, D. A.
2020
 - **Tube thoracostomy during the COVID-19 pandemic: guidance and recommendations from the AAST Acute Care Surgery and Critical Care Committees.** *Trauma surgery & acute care open*
Pieracci, F. M., Burlew, C. C., Spain, D. n., Livingston, D. H., Bulger, E. M., Davis, K. A., Michetti, C. n.
2020; 5 (1): e000498
 - **Performing tracheostomy during the Covid-19 pandemic: guidance and recommendations from the Critical Care and Acute Care Surgery Committees of the American Association for the Surgery of Trauma.** *Trauma surgery & acute care open*
Michetti, C. P., Burlew, C. C., Bulger, E. M., Davis, K. A., Spain, D. A., Critical Care and Acute Care Surgery Committees of the American Association for the Surgery of Trauma
2020; 5 (1): e000482
 - **Splenectomy for benign and malignant hematologic pathology: Modern morbidity, mortality, and long-term outcomes.** *Surgery open science*
Alobuia, W. M., Perrone, K. n., Iberri, D. J., Brar, R. S., Spain, D. A., Forrester, J. D.
2020; 2 (4): 19–24
 - **Prospectively Assigned AAST Grade versus Modified Hinchey Class and Acute Diverticulitis Outcomes.** *The Journal of surgical research*
Choi, J. n., Besso, K. n., Bromley-Dulfano, R. n., Li, Z. n., Gupta, A. n., Taylor, K. n., Wadhwa, H. n., Seltzer, R. n., Spain, D. A., Knowlton, L. M.
2020
 - **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.
2020
 - **Using a virtual platform for personal protective equipment education and training.** *Medical education*
Nassar, A. K., Lin, D. T., Spain, D. A., Knowlton, L. M.
2020
 - **Lessons from Epidemics, Pandemics, and Surgery.** *Journal of the American College of Surgeons*
Hakes, N. A., Choi, J. n., Spain, D. A., Forrester, J. D.

2020

- **A multi-institutional study assessing general surgery faculty teaching evaluations** brief title: **General surgery faculty teaching evaluations.** *American journal of surgery*
Shellito, A. D., de Virgilio, C. n., Kaji, A. H., Harrington, D. W., Robertson, J. M., Zern, N. K., Spain, D. A., Dickinson, K. J., Smink, D. S., Cho, N. L., Donahue, T. n., Aarons, C. B., Namm, et al
2020
- **Pain Scores in Geriatric vs Nongeriatric Patients With Rib Fractures.** *JAMA surgery*
Choi, J. n., Khan, S. n., Zamy, K. n., Tennakoon, L. n., Spain, D. A.
2020
- **Surgical Stabilization of Rib Fracture to Mitigate Pulmonary Complication and Mortality: A Systematic Review and Bayesian Meta-Analysis.** *Journal of the American College of Surgeons*
Choi, J. n., Gomez, G. I., Kaghazchi, A. n., Borghi, J. A., Spain, D. A., Forrester, J. D.
2020
- **Association of the US Affordable Care Act With Out-of-Pocket Spending and Catastrophic Health Expenditures Among Adult Patients With Traumatic Injury.** *JAMA network open*
Liu, C. n., Tsugawa, Y. n., Weiser, T. G., Scott, J. W., Spain, D. A., Maggard-Gibbons, M. n.
2020; 3 (2): e200157
- **Creation and implementation of a novel clinical workflow based on the AAST uniform anatomic severity grading system for emergency general surgery conditions.** *Trauma surgery & acute care open*
Bessoff, K. E., Choi, J. n., Berekyei Merrell, S. n., Nassar, A. K., Spain, D. n., Knowlton, L. M.
2020; 5 (1): e000552
- **Intravenous lidocaine as a non-opioid adjunct analgesic for traumatic rib fractures.** *PloS one*
Choi, J. n., Zamy, K. n., Barreto, N. B., Tennakoon, L. n., Davis, K. M., Trickey, A. W., Spain, D. A.
2020; 15 (9): e0239896
- **Recurrent Small Bowel Obstruction with Intraluminal Structures.** *The journal of trauma and acute care surgery*
Sun, B. J., Kopecky, K. E., Garcia, P. n., Spain, D. A.
2020
- **Evidenced-Based Practice Among Trainees: A Survey on Facial Trauma Wound Management.** *Journal of surgical education*
Choi, J. n., Traboulsi, A. A., Okland, T. S., Sadauskas, V. n., Perrault, D. n., Spain, D. A., Lorenz, H. P., Weiser, T. G.
2020
- **Safety of Foregoing Operation for Small Bowel Obstruction in the Virgin Abdomen: Systematic Review and Meta-Analysis.** *Journal of the American College of Surgeons*
Choi, J. n., Fisher, A. T., Mulaney, B. n., Anand, A. n., Carlos, G. n., Stave, C. D., Spain, D. A., Weiser, T. G.
2020
- **Traumatic Injuries Due to Interpersonal and Domestic Violence in the United States.** *The Journal of surgical research*
Tennakoon, L. n., Hakes, N. A., Knowlton, L. M., Spain, D. A.
2020; 254: 206–16
- **Necessity of routine chest radiograph in blunt trauma resuscitation: time to evaluate dogma with evidence.** *The journal of trauma and acute care surgery*
Choi, J. n., Forrester, J. D., Spain, D. A.
2020
- **Review of Facial Trauma Management.** *The journal of trauma and acute care surgery*
Choi, J. n., Lorenz, H. P., Spain, D. A.
2020
- **Altered Mental Status and Hypercalcemia with a Splenic Mass.** *The journal of trauma and acute care surgery*
Khan, S., Choi, J., Patel, S. A., Spain, D. A.
2019
- **Long-Term Outcomes after Nonoperative Management of Perforated Appendicitis: A Retrospective Cohort Analysis**

- Sceats, L. A., Kin, C. J., Spain, D. A.
ELSEVIER SCIENCE INC.2019: S157
- **Injury Due to Domestic and Intimate Partner Violence in the United States: A Nationwide Evaluation of Emergency Department Visits**
Tennakoon, L., Knowlton, L. M., Spain, D. A.
ELSEVIER SCIENCE INC.2019: E61
 - **Mortality after Emergency General Surgery among Patients with Hematologic Malignancy: A National Assessment**
Forrester, J. D., Tennakoon, L., Spain, D. A., Knowlton, L. M.
ELSEVIER SCIENCE INC.2019: S103–S104
 - **Health Care Utilization and Mortality after Emergency General Surgery in Patients with Underlying Liver Disease: A National Perspective**
Tennakoon, L., Concepcion, W., Melcher, M. L., Spain, D. A., Knowlton, L. M.
ELSEVIER SCIENCE INC.2019: E139
 - **Developing an Inpatient Relationship-Centered Communication Curriculum for Surgical Teams: Pilot Study**
Nassar, A., Weimer-Elder, B., Kline, M., Minthorn, C., Staudenmayer, K. L., Yang, R., Spain, D. A., Maggio, P., Korndorffer, J. R., Johnson, T.
ELSEVIER SCIENCE INC.2019: E48
 - **Coagulopathy Is Associated With Increased Mortality and Transfusion Requirements in a Pediatric Trauma Database**
Murphy, C. H., Spain, D. A., Shan, H.
WILEY.2019: 203A–204A
 - **Implementation Challenges Using a Novel Method for Collecting Patient-Reported Outcomes After Injury** *JOURNAL OF SURGICAL RESEARCH*
Rosenberg, G. M., Shearer, E. J., Zion, S. R., Mackey, S. C., Morris, A. M., Spain, D. A., Weiser, T. G.
2019; 241: 277–84
 - **The Future of Emergency General Surgery** *ANNALS OF SURGERY*
Havens, J. M., Neiman, P. U., Campbell, B. L., Croce, M. A., Spain, D. A., Napolitano, L. M.
2019; 270 (2): 221–22
 - **Operative Versus Nonoperative Management of Appendicitis: A Long-Term Cost Effectiveness Analysis.** *MDM policy & practice*
Sceats, L. A., Ku, S., Coughran, A., Barnes, B., Grimm, E., Muffly, M., Spain, D. A., Kin, C., Owens, D. K., Goldhaber-Fiebert, J. D.
2019; 4 (2): 2381468319866448
 - **Association of Coworker Reports About Unprofessional Behavior by Surgeons With Surgical Complications in Their Patients.** *JAMA surgery*
Cooper, W. O., Spain, D. A., Guillaumondegui, O., Kelz, R. R., Domenico, H. J., Hopkins, J., Sullivan, P., Moore, I. N., Pichert, J. W., Catron, T. F., Webb, L. E., Dmochowski, R. R., Hickson, et al
2019
 - **BASE Jumping Injuries Presenting to Emergency Departments in the United States: an Assessment of Morbidity, Emergency Department, and Inpatient Costs** *WILDERNESS & ENVIRONMENTAL MEDICINE*
Forrester, J. D., Yelorda, K., Tennakoon, L., Spain, D. A., Staudenmayer, K.
2019; 30 (2): 150–54
 - **Enteral Nutrition.** *JAMA*
Baiu, I., Spain, D. A.
2019; 321 (20): 2040
 - **Rib Fractures.** *JAMA*
Baiu, I., Spain, D.
2019; 321 (18): 1836
 - **BASE Jumping Injuries Presenting to Emergency Departments in the United States: an Assessment of Morbidity, Emergency Department, and Inpatient Costs.** *Wilderness & environmental medicine*
Forrester, J. D., Yelorda, K., Tennakoon, L., Spain, D. A., Staudenmayer, K.
2019
 - **The economic footprint of acute care surgery in the United States: Implications for systems development**
Knowlton, L. M., Minei, J., Tennakoon, L., Davis, K. A., Doucet, J., Bernard, A., Haider, A., Scherer, L., Spain, D. A., Staudenmayer, K. L.
LIPPINCOTT WILLIAMS & WILKINS.2019: 609–16

- **Smoking Cessation in Elective Surgery** *AMERICAN SURGEON*
Trang, K., Spain, D. A.
2019; 85 (4): E193–E194
- **Atraumatic acute forearm compartment syndrome due to systemic heparin.** *Trauma surgery & acute care open*
Chavez, G. n., Choi, J. n., Fogel, N. n., Jaramillo, J. D., Murphy, M. n., Spain, D. n.
2019; 4 (1): e000399
- **Patient, hospital and regional characteristics associated with undertriage of injured children in California (2005-2015): a retrospective cohort study.** *Trauma surgery & acute care open*
Wang, N. E., Newton, C. R., Spain, D. A., Pirrotta, E. n., Thomas-Uribe, M. n.
2019; 4 (1): e000317
- **The "T's" of snakebite injury in the USA: fact or fiction?** *Trauma surgery & acute care open*
Jaramillo, J. D., Hakes, N. A., Tennakoon, L., Spain, D., Forrester, J. D.
2019; 4 (1): e000374
- **THE IMPACT OF MEDICAID EXPANSION ON TRAUMA-RELATED EMERGENCY DEPARTMENT UTILIZATION: A NATIONAL EVALUATION OF POLICY IMPLICATIONS.** *The journal of trauma and acute care surgery*
Knowlton, L. M., Dehghan, M. S., Arnow, K. n., Trickey, A. W., Tennakoon, L. n., Morris, A. M., Spain, D. A.
2019
- **Rhinovirus-associated severe acute respiratory distress syndrome (ARDS) managed with airway pressure release ventilation (APRV).** *Trauma surgery & acute care open*
Ayala, C. n., Baiu, I. n., Owyang, C. n., Forrester, J. D., Spain, D. n.
2019; 4 (1): e000322
- **Implementation Challenges Using a Novel Method for Collecting Patient-Reported Outcomes After Injury.** *The Journal of surgical research*
Rosenberg, G. M., Shearer, E. J., Zion, S. R., Mackey, S. C., Morris, A. M., Spain, D. A., Weiser, T. G.
2019; 241: 277–84
- **Readmission risk and costs of firearm injuries in the United States, 2010-2015.** *PloS one*
Spitzer, S. A., Vail, D., Tennakoon, L., Rajasingh, C., Spain, D. A., Weiser, T. G.
2019; 14 (1): e0209896
- **Caring for Caregivers - Resident Physician Health and Wellbeing.** *Journal of surgical education*
Baiu, I. n., Titan, A. n., Kin, C. n., Spain, D. A.
2019
- **LAPRA-TY for laparoscopic repair of traumatic diaphragmatic hernia without intracorporeal knot tying.** *Trauma surgery & acute care open*
Choi, J. n., Pan, J. n., Forrester, J. D., Spain, D. n., Browder, T. D.
2019; 4 (1): e000334
- **Parenteral Nutrition.** *JAMA*
Baiu, I. n., Spain, D. A.
2019; 321 (21): 2142
- **The Future of Emergency General Surgery.** *Annals of surgery*
Havens, J. M., Neiman, P. U., Campbell, B. L., Croce, M. A., Spain, D. A., Napolitano, L. M.
2018
- **The Economic Footprint of Acute Care Surgery in the United States: Implications for Systems Development.** *The journal of trauma and acute care surgery*
Knowlton, L. M., Minei, J., Tennakoon, L., Davis, K. A., Doucet, J., Bernard, A., Haider, A., Tres Scherer, L. R., Spain, D. A., Staudenmayer, K. L.
2018
- **INTER-HOSPITAL VARIABILITY IN TIME TO DISCHARGE TO REHABILITATION AMONG INSURED TRAUMA PATIENTS.** *The journal of trauma and acute care surgery*
Knowlton, L. M., Harris, A. H., Tennakoon, L., Hawn, M. T., Spain, D. A., Staudenmayer, K. L.
2018

- **Letter to the Editor** *ANNALS OF SURGERY*
Spitzer, S. A., Vail, D., Rajasingh, C. M., Tennakoon, L., Spain, D. A., Weiser, T. G.
2018; 268 (6): E77–E78
- **Implementing a Standardized Nurse-driven Rounding Protocol in a Trauma-surgical Intensive Care Unit: A Single Institution Experience.** *Cureus*
Marshall, C. D., Fay, M. E., Phillips, B., Faurote, R., Kustudia, J., Ransom, R. C., Henley, C., DiConstanzo, L., Jopling, J. K., Sang, A. X., Spain, D. A., Tisnado, J. A., Weiser, et al
2018; 10 (10): e3422
- **An Update on the Management of Adult Traumatic Nerve Injuries-Replacing Old Paradigms: A Review.** *The journal of trauma and acute care surgery*
Smith, B. W., Sakamuri, S., Spain, D. A., Joseph, J. R., Yang, L. J., Wilson, T. J.
2018
- **Operative vs Nonoperative Management of Appendicitis: A Long-Term Cost-Effectiveness Analysis**
Sceats, L. A., Coughran, A., Barnes, B., Grimm, E. L., Muffly, M., Spain, D. A., Kin, C. J., Owens, D. K., Fiebert, J.
ELSEVIER SCIENCE INC.2018: S157–S158
- **The association between angioembolization and splenic salvage for isolated splenic injuries.** *The Journal of surgical research*
Rosenberg, G. M., Weiser, T. G., Maggio, P. M., Browder, T. D., Tennakoon, L., Spain, D. A., Staudenmayer, K. L.
2018; 229: 150–55
- **Financial Stability of Level I Trauma Centers Within Safety-Net Hospitals.** *Journal of the American College of Surgeons*
Knowlton, L. M., Morris, A. M., Tennakoon, L., Spain, D. A., Staudenmayer, K. L.
2018
- **Surgical deserts in California: an analysis of access to surgical care** *JOURNAL OF SURGICAL RESEARCH*
Uribe-Leitz, T., Esquivel, M. M., Garland, N. Y., Staudenmayer, K. L., Spain, D. A., Weiser, T. G.
2018; 223: 102–8
- **Trauma-induced insurance instability: Variation in insurance coverage for patients who experience readmission after injury.** *The journal of trauma and acute care surgery*
Rajasingh, C. M., Weiser, T. G., Knowlton, L. M., Tennakoon, L. n., Spain, D. A., Staudenmayer, K. L.
2018; 84 (6): 876–84
- **Patient-reported outcomes in trauma: a scoping study of published research.** *Trauma surgery & acute care open*
Rosenberg, G. M., Stave, C., Spain, D. A., Weiser, T. G.
2018; 3 (1): e000202
- **Letter to the Editor.** *Annals of surgery*
Spitzer, S. A., Vail, D., Rajasingh, C. M., Tennakoon, L., Spain, D. A., Weiser, T. G.
2017
- **Rapid Retriage of Critically Injured Trauma Patients** *JAMA SURGERY*
Della Valle, J. M., Newton, C., Kline, R. A., Spain, D. A., Pirrotta, E., Wang, N.
2017; 152 (10): 981–83
- **Splenic trauma: WSES classification and guidelines for adult and pediatric patients** *WORLD JOURNAL OF EMERGENCY SURGERY*
Coccolini, F., Montori, G., Catena, F., Kluger, Y., Biffl, W., Moore, E. E., Reva, V., Bing, C., Bala, M., Fugazzola, P., Bahouth, H., Marzi, I., Velmahos, et al
2017; 12: 40
- **Real-Time Clinical Decision Support Decreases Inappropriate Plasma Transfusion** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
Shah, N., Baker, S. A., Spain, D., Shieh, L., Shepard, J., Hadhazy, E., Maggio, P., Goodnough, L. T.
2017; 148 (2): 154–60
- **Clinical phenotypes of US level I trauma centers: use of clustering methodology**
Forrester, J. D., Weiser, T. G., Maggio, P., Browder, T., Tennakoon, L., Spain, D. A., Staudenmayer, K.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2017: 146–52
- **The trauma ecosystem: The impact and economics of new trauma centers on a mature statewide trauma system.** *journal of trauma and acute care surgery*
Ciesla, D. J., Pracht, E. E., Leitz, P. T., Spain, D. A., Staudenmayer, K. L., Tepas, J. J.

2017; 82 (6): 1014-1022

- **The prevalence of psychiatric diagnoses and associated mortality in hospitalized US trauma patients** *JOURNAL OF SURGICAL RESEARCH*
Townsend, L. L., Esquivel, M. M., Uribe-Leitz, T., Weiser, T. G., Maggio, P. M., Spain, D. A., Tennakoon, L., Staudenmayer, K.
2017; 213: 171–76
- **A geospatial evaluation of timely access to surgical care in seven countries** *BULLETIN OF THE WORLD HEALTH ORGANIZATION*
Knowlton, L. M., Banguti, P., Chackungal, S., Chanthasiri, T., Chao, T. E., Dahn, B., Derbew, M., Dhar, D., Esquivel, M. M., Evans, F., Hendel, S., LeBrun, D. G., Notrica, et al
2017; 95 (6): 437–44
- **Costs and Financial Burden of Initial Hospitalizations for Firearm Injuries in the United States, 2006-2014.** *American journal of public health*
Spitzer, S. A., Staudenmayer, K. L., Tennakoon, L., Spain, D. A., Weiser, T. G.
2017; 107 (5): 770-774
- **Development and preliminary performance of a risk factor screen to predict posttraumatic psychological disorder after trauma exposure** *GENERAL HOSPITAL PSYCHIATRY*
Carlson, E. B., Palmieri, P. A., Spain, D. A.
2017; 46: 25–31
- **Population-based estimate of trauma-related deaths for law enforcement personnel: Risks for death are higher and increasing over time.** *journal of trauma and acute care surgery*
Eastman, A. L., Cripps, M. W., AbdelFattah, K. R., Inaba, K., Weiser, T. G., Spain, D. A., Staudenmayer, K. L.
2017
- **The American College of Surgeons (ACS) Needs-Based Assessment of Trauma Systems (NBATS): Estimates for the State of California.** *journal of trauma and acute care surgery*
Uribe-Leitz, T., Esquivel, M. M., Knowlton, L. M., Ciesla, D., Lin, F., Hsia, R. Y., Spain, D. A., Winchell, R. J., Staudenmayer, K. L.
2017
- **Use of Unsolicited Patient Observations to Identify Surgeons With Increased Risk for Postoperative Complications.** *JAMA surgery*
Cooper, W. O., Guillaumondegui, O., Hines, O. J., Hultman, C. S., Kelz, R. R., Shen, P., Spain, D. A., Sweeney, J. F., Moore, I. N., Hopkins, J., Horowitz, I. R., Howerton, R. M., Meredith, et al
2017
- **National Readmission Patterns of Isolated Splenic Injuries Based on Initial Management Strategy.** *JAMA surgery*
Rosenberg, G. M., Knowlton, L. n., Rajasingh, C. n., Weng, Y. n., Maggio, P. M., Spain, D. A., Staudenmayer, K. L.
2017; 152 (12): 1119–25
- **Effects of mechanism of injury and patient age on outcomes in geriatric rib fracture patients.** *Trauma surgery & acute care open*
Shi, H. H., Esquivel, M., Staudenmayer, K. L., Spain, D. A.
2017; 2 (1): e000074
- **Trauma advanced practice provider programme development in an academic setting to optimize care coordination.** *Trauma surgery & acute care open*
Woodfall, M. C., Browder, T. D., Alfaro, J. M., Claudius, M. A., Chan, G. K., Robinson, D. G., Spain, D. A.
2017; 2 (1): e000068
- **Nontraumatic Clostridium septicum Myonecrosis in Adults Case Report and a 15-Year Systematic Literature Review** *INFECTIOUS DISEASES IN CLINICAL PRACTICE*
Forrester, J. D., Shkolyar, E., Gregg, D., Spain, D. A., Weiser, T. G.
2016; 24 (6): 318–23
- **International rotations: A valuable source to supplement operative experience for acute care surgery, trauma and surgical critical care fellows.** *journal of trauma and acute care surgery*
Ferrada, P., Ivatury, R. R., Spain, D. A., Davis, K. A., Aboutanos, M., Fildes, J. J., Scalea, T. M.
2016: -?
- **A Multinational Evaluation of Timely Access to Basic Surgical Services Using Geospatial Analyses**
Knowlton, L., Esquivel, M., Uribe-Leitz, T., McQueen, K., Chackungal, S., LeBrun, D. G., Chao, T. E., Weiser, T. G., Spain, D. A.
ELSEVIER SCIENCE INC.2016: E118

- **Trends in open vascular surgery for trauma: implications for the future of acute care surgery.** *journal of surgical research*
Forrester, J. D., Weiser, T. G., Maggio, P., Browder, T., Tennakoon, L., Spain, D., Staudenmayer, K.
2016; 205 (1): 208-212
- **The significance of underlying cardiac comorbidity on major adverse cardiac events after major liver resection.** *HPB*
Tran, T. B., Worhunsky, D. J., Spain, D. A., Dua, M. M., Visser, B. C., Norton, J. A., Poultides, G. A.
2016; 18 (9): 742-747
- **Contributions of risk and protective factors to prediction of psychological symptoms after traumatic experiences** *COMPREHENSIVE PSYCHIATRY*
Carlson, E. B., Palmieri, P. A., Field, N. P., Dalenberg, C. J., Macia, K. S., Spain, D. A.
2016; 69: 106–15
- **Trends in the management of pelvic fractures, 2008-2010** *JOURNAL OF SURGICAL RESEARCH*
Chu, C. H., Tennakoon, L., Maggio, P. M., Weiser, T. G., Spain, D. A., Staudenmayer, K. L.
2016; 202 (2): 335-340
- **The Triage of Injured Patients: Mechanism of Injury, Regardless of Injury Severity, Determines Hospital Destination** *AMERICAN SURGEON*
Staudenmayer, K., Wang, N. E., Weiser, T. G., Maggio, P., Mackersie, R. C., Spain, D., Hsia, R. Y.
2016; 82 (4): 356-361
- **Trauma center care is associated with reduced readmissions after injury.** *journal of trauma and acute care surgery*
Staudenmayer, K., Weiser, T. G., Maggio, P. M., Spain, D. A., Hsia, R. Y.
2016; 80 (3): 412-418
- **Advantages and psychometric validation of proximal intensive assessments of patient-reported outcomes collected in daily life** *QUALITY OF LIFE RESEARCH*
Carlson, E. B., Field, N. P., Ruzek, J. I., Bryant, R. A., Dalenberg, C. J., Keane, T. M., Spain, D. A.
2016; 25 (3): 507-516
- **Uninsured status may be more predictive of outcomes among the severely injured than minority race** *INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED*
Gerry, J. M., Weiser, T. G., Spain, D. A., Staudenmayer, K. L.
2016; 47 (1): 197-202
- **Uninsured status may be more predictive of outcomes among the severely injured than minority race.** *Injury*
Gerry, J. M., Weiser, T. G., Spain, D. A., Staudenmayer, K. L.
2016; 47 (1): 197–202
- **Erratum to: Advantages and psychometric validation of proximal intensive assessments of patient-reported outcomes collected in daily life.** *Quality of life research : an international journal of quality of life aspects of treatment, care and rehabilitation*
Carlson, E. B., Field, N. P., Ruzek, J. I., Bryant, R. A., Dalenberg, C. J., Keane, T. M., Spain, D. A.
2016; 25 (9): 2399
- **Small bowel obstruction: A practical step-by-step evidence-based approach to evaluation, decision making, and management.** *journal of trauma and acute care surgery*
Azagury, D., Liu, R. C., Morgan, A., Spain, D. A.
2015; 79 (4): 661-668
- **The Effect of Chronic Kidney Disease on Postoperative Outcomes after Major Hepatectomy: Results from the National Surgical Quality Improvement Program**
Tran, T. B., Dua, M. M., Spain, D. A., Poultides, G. A., Norton, J. A., Visser, B. C.
ELSEVIER SCIENCE INC.2015: S94–S95
- **Hepato-pancreatectomy: how morbid? Results from the national surgical quality improvement project** *HPB*
Tran, T. B., Dua, M. M., Spain, D. A., Visser, B. C., Norton, J. A., Poultides, G. A.
2015; 17 (9): 763-769
- **Hepato-pancreatectomy: how morbid? Results from the national surgical quality improvement project.** *HPB*
Tran, T. B., Dua, M. M., Spain, D. A., Visser, B. C., Norton, J. A., Poultides, G. A.
2015; 17 (9): 763-769

- **Care and caring in the intensive care unit: Family members' distress and perceptions about staff skills, communication, and emotional support** *JOURNAL OF CRITICAL CARE*
Carlson, E. B., Spain, D. A., Muhtadie, L., McDade-Montez, L., Macia, K. S.
2015; 30 (3): 557-561
- **Adding insult to injury: discontinuous insurance following spine trauma.** *journal of bone and joint surgery. American volume*
Kastenberg, Z. J., Hurley, M. P., Weiser, T. G., Cole, T. S., Staudenmayer, K. L., Spain, D. A., Ratliff, J. K.
2015; 97 (2): 141-146
- **Adding Insult to Injury: Discontinuous Insurance Following Spine Trauma** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Kastenberg, Z. J., Hurley, M. P., Weiser, T. G., Cole, T. S., Staudenmayer, K. L., Spain, D. A., Ratliff, J. K.
2015; 97A (2): 141-146
- **Prediction of neurosurgical intervention after mild traumatic brain injury using the national trauma data bank.** *World journal of emergency surgery*
Sweeney, T. E., Salles, A., Harris, O. A., Spain, D. A., Staudenmayer, K. L.
2015; 10: 23-?
- **Prediction of neurosurgical intervention after mild traumatic brain injury using the national trauma data bank.** *World journal of emergency surgery*
Sweeney, T. E., Salles, A., Harris, O. A., Spain, D. A., Staudenmayer, K. L.
2015; 10: 23-?
- **Ground-level Falls Are a Marker of Poor Outcome in the Injured Elderly** *AMERICAN SURGEON*
Gerry, J. M., Spain, D. A., Staudenmayer, K. L.
2014; 80 (11): 1171-1173
- **Environmental Sampling for Clostridium difficile on Alcohol-Based Hand Rub Dispensers in an Academic Medical Center** *SURGICAL INFECTIONS*
Forrester, J. D., Banaei, N., Buchner, P., Spain, D. A., Staudenmayer, K. L.
2014; 15 (5): 581-584
- **Environmental sampling for Clostridium difficile on alcohol-based hand rub dispensers in an academic medical center.** *Surgical infections*
Forrester, J. D., Banaei, N., Buchner, P., Spain, D. A., Staudenmayer, K. L.
2014; 15 (5): 581-584
- **Variations in Pediatric Trauma Transfer Patterns in Northern California Pediatric Trauma Centers (2001-2009)** *ACADEMIC EMERGENCY MEDICINE*
Vogel, L. D., Vongsachang, H., Pirrotta, E., Holmes, J. M., Sherck, J., Newton, C., D'Souza, P., Spain, D. A., Wang, N. E.
2014; 21 (9): 1023-1030
- **Variations in pediatric trauma transfer patterns in Northern California pediatric trauma centers (2001-2009).** *Academic emergency medicine*
Vogel, L. D., Vongsachang, H., Pirrotta, E., Holmes, J. F., Sherck, J., Newton, C., D'Souza, P., Spain, D. A., Wang, N. E.
2014; 21 (9): 1023-1030
- **Clostridium ramosum Bacteremia: Case Report and Literature Review** *SURGICAL INFECTIONS*
Forrester, J. D., Spain, D. A.
2014; 15 (3): 343-346
- **Factors Associated With the Disposition of Severely Injured Patients Initially Seen at Non-Trauma Center Emergency Departments Disparities by Insurance Status** *JAMA SURGERY*
Delgado, M. K., Yokell, M. A., Staudenmayer, K. L., Spain, D. A., Hernandez-Boussard, T., Wang, N. E.
2014; 149 (5): 422-430
- **Factors associated with the disposition of severely injured patients initially seen at non-trauma center emergency departments: disparities by insurance status.** *JAMA surgery*
Delgado, M. K., Yokell, M. A., Staudenmayer, K. L., Spain, D. A., Hernandez-Boussard, T., Wang, N. E.
2014; 149 (5): 422-430
- **Variability in California triage from 2005 to 2009: A population-based longitudinal study of severely injured patients.** *journal of trauma and acute care surgery*
Staudenmayer, K., Lin, F., Mackersie, R., Spain, D., Hsia, R.
2014; 76 (4): 1041-1047

- **The epidemiology of trauma-related mortality in the United States from 2002 to 2010.** *journal of trauma and acute care surgery*
Sise, R. G., Calvo, R. Y., Spain, D. A., Weiser, T. G., Staudenmayer, K. L.
2014; 76 (4): 913-920
- **Cost-effectiveness of helicopter versus ground emergency medical services for trauma scene transport in the United States.** *Annals of emergency medicine*
Delgado, M. K., Staudenmayer, K. L., Wang, N. E., Spain, D. A., Weir, S., Owens, D. K., Goldhaber-Fiebert, J. D.
2013; 62 (4): 351-364 e19
- **Cost-effectiveness of helicopter versus ground emergency medical services for trauma scene transport in the United States.** *Annals of emergency medicine*
Delgado, M. K., Staudenmayer, K. L., Wang, N. E., Spain, D. A., Weir, S., Owens, D. K., Goldhaber-Fiebert, J. D.
2013; 62 (4): 351-364 e19
- **Cost-effectiveness of preoperative imaging for appendicitis after indeterminate ultrasonography in the second or third trimester of pregnancy.** *Obstetrics and gynecology*
Kastenber, Z. J., Hurley, M. P., Luan, A., Vasu-Devan, V., Spain, D. A., Owens, D. K., Goldhaber-Fiebert, J. D.
2013; 122 (4): 821-829
- **Triage of elderly trauma patients: a population-based perspective.** *Journal of the American College of Surgeons*
Staudenmayer, K. L., Hsia, R. Y., Mann, N. C., Spain, D. A., Newgard, C. D.
2013; 217 (4): 569-576
- **Logistics of transfusion support for patients with massive hemorrhage** *CURRENT OPINION IN ANESTHESIOLOGY*
Goodnough, L. T., Spain, D. A., Maggio, P.
2013; 26 (2): 208-214
- **Predictors of emergency department death for patients presenting with ruptured abdominal aortic aneurysms** *JOURNAL OF VASCULAR SURGERY*
Mell, M. W., Callcut, R. A., Bech, F., Delgado, M. K., Staudenmayer, K., Spain, D. A., Hernandez-Boussard, T.
2012; 56 (3): 651-655
- **Sonographic Identification of Tube Thoracostomy Study (SITTS): Confirmation of Intrathoracic Placement.** *The western journal of emergency medicine*
Jenkins, J. A., Gharahbaghian, L., Doniger, S. J., Bradley, S., Crandall, S., Spain, D. A., Williams, S. R.
2012; 13 (4): 305-311
- **Payer status is associated with the use of prophylactic inferior vena cava filter in high-risk trauma patients** *SURGERY*
Pickham, D. M., Callcut, R. A., Maggio, P. M., Mell, M. W., Spain, D. A., Bech, F., Staudenmayer, K.
2012; 152 (2): 232-237
- **Outcomes of Complex Abdominal Herniorrhaphy Experience With 106 Cases** *ANNALS OF PLASTIC SURGERY*
Satterwhite, T. S., Miri, S., Chung, C., Spain, D., Lorenz, H. P., Lee, G. K.
2012; 68 (4): 382-388
- **Abdominal wall reconstruction with dual layer cross-linked porcine dermal xenograft: The "Pork Sandwich" herniorrhaphy** *JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY*
Satterwhite, T. S., Miri, S., Chung, C., Spain, D. A., Lorenz, H. P., Lee, G. K.
2012; 65 (3): 333-341
- **The forgotten trauma patient: Outcomes for injured patients evaluated by emergency medical services but not transported to the hospital** *JOURNAL OF TRAUMA AND ACUTE CARE SURGERY*
Staudenmayer, K., Hsia, R., Wang, E., Sporer, K., Ghilarducci, D., Spain, D., Mackersie, R., Sherck, J., Kline, R., Newgard, C.
2012; 72 (3): 594-599
- **Statins for Everyone Are We There Yet?** *ARCHIVES OF SURGERY*
Spain, D. A.
2012; 147 (2): 189-189
- **Under-Utilization of Transfer for Ruptured Abdominal Aortic Aneurysm (rAAA) in the Western United States**
Mell, M. W., Callcut, R. A., Bech, F., Delgado, K., Staudenmayer, K., Spain, D. A., Hernandez-Boussard, T.
MOSBY-ELSEVIER.2011: 590-91
- **Development and Validation of a Brief Self-Report Measure of Trauma Exposure: The Trauma History Screen** *PSYCHOLOGICAL ASSESSMENT*

- Carlson, E. B., Smith, S. R., Palmieri, P. A., Dalenberg, C., Ruzek, J. I., Kimerling, R., Burling, T. A., Spain, D. A.
2011; 23 (2): 463-477
- **Characteristics of Pediatric Trauma Transfers to a Level I Trauma Center: Implications for Developing a Regionalized Pediatric Trauma System in California** *ACADEMIC EMERGENCY MEDICINE*
Acosta, C. D., Delgado, M. K., Gisoni, M. A., Raghunathan, A., D'Souza, P. A., Gilbert, G., Spain, D. A., Christensen, P., Wang, N. E.
2010; 17 (12): 1364-1373
 - **Early outcomes of deliberate nonoperative management for blunt thoracic aortic injury in trauma** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Caffarelli, A. D., Mallidi, H. R., Maggio, P. M., Spain, D. A., Miller, D. C., Mitchell, R. S.
2010; 140 (3): 598-605
 - **Training and Certification in Surgical Critical Care: A Position Paper by the Surgical Critical Care Program Directors Society** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Alam, H. B., Chipman, J. G., Luchette, F. A., Shapiro, M. J., Spain, D. A., Cioffi, W.
2010; 69 (2): 471-474
 - **Demographic and Financial Analysis of EMTALA Hand Patient Transfers.** *Hand (New York, N.Y.)*
Melkun, E. T., Ford, C., Brundage, S. I., Spain, D. A., Chang, J.
2010; 5 (1): 72-76
 - **Emergency Innovation: Implications for the Trauma Surgeon** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Pretz, J. L., Magnus, D., Spain, D. A.
2009; 67 (6): 1443-1447
 - **Massive Transfusion Protocols: The Role of Aggressive Resuscitation Versus Product Ratio in Mortality Reduction** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*
Riskin, D. J., Tsai, T. C., Riskin, L., Hernandez-Boussard, T., Purtill, M., Maggio, P. M., Spain, D. A., Brundage, S. I.
2009; 209 (2): 198-205
 - **The impact of hypopituitarism on function and performance in subjects with recent history of traumatic brain injury and aneurysmal subarachnoid haemorrhage.** *Brain injury*
Srinivasan, L., Roberts, B., Bushnik, T., Englander, J., Spain, D. A., Steinberg, G. K., Ren, L., Sandel, M. E., Al-Lawati, Z., Teraoka, J., Hoffman, A. R., Katznelson, L.
2009; 23 (7): 639-648
 - **Commitment to COT Verification Improves Patient Outcomes and Financial Performance** *67th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma/Meeting of the Association-for-Acute-Medicine*
Maggio, P. M., Brundage, S. I., Hernandez-Boussard, T., Spain, D. A.
LIPPINCOTT WILLIAMS & WILKINS.2009: 190-95
 - **An Evaluation of Multidetector Computed Tomography in Detecting Pancreatic Injury: Results of a Multicenter AAST Study** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Phelan, H. A., Velmahos, G. C., Jurkovich, G. J., Friese, R. S., Minei, J. P., Menaker, J. A., Philp, A., Evans, H. L., Gunn, M. L., Eastman, A. L., Rowell, S. E., Allison, C. E., Barbosa, et al
2009; 66 (3): 641-646
 - **The impact of hypopituitarism on function and performance in subjects with recent history of traumatic brain injury and aneurysmal subarachnoid haemorrhage** *BRAIN INJURY*
Srinivasan, L., Roberts, B., Bushnik, T., Englander, J., Spain, D. A., Steinberg, G. K., Ren, L., Sandel, M. E., Al-Lawati, Z., Teraoka, J., Hoffman, A. R., Katznelson, L.
2009; 23 (7-8): 639-648
 - **Validation of a Prehospital Trauma Triage Tool: A 10-Year Perspective** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Purtill, M., Benedict, K., Hernandez-Boussard, T., Brundage, S. I., Kritayakirana, K., Sherck, J. P., Garland, A., Spain, D. A.
2008; 65 (6): 1253-1257
 - **Insulin increases the release of proinflammatory mediators** *63rd Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Brundage, S. I., Kirilcuk, N. N., Lam, J. C., Spain, D. A., Zautke, N. A.
LIPPINCOTT WILLIAMS & WILKINS.2008: 367-72

- **Responsible development and application of surgical innovations: a position statement of the Society of University Surgeons.** *Journal of the American College of Surgeons*
Biffi, W. L., Spain, D. A., Reitsma, A. M., Minter, R. M., Upperman, J., Wilson, M., Adams, R., Goldman, E. B., Angelos, P., Krummel, T., Greenfield, L. J.
2008; 206 (3): 1204-1209
- **CT angiography effectively evaluates extremity vascular trauma** *AMERICAN SURGEON*
Peng, P. D., Spain, D. A., Tataria, M., Hellinger, J. C., Rubin, G. D., Brundage, S. I.
2008; 74 (2): 103-107
- **County hospital surgical practice: a model for acute care surgery** *59th Annual Meeting of the Southwestern-Surgical-Congress*
Garland, A. M., Riskin, D. J., Brundage, S. I., Moritz, F., Spain, D. A., Purtill, M., Sherck, J. P.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2007: 758-64
- **Pediatric blunt abdominal injury: Age is irrelevant and delayed operation is not detrimental** *64th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Tataria, M., Nance, M. L., Holmes, J. H., Miller, C. C., Mattix, K. D., Brown, R. L., Mooney, D. P., Scherer, L. R., Groner, J. L., Scaife, E. R., Spain, D. A., Brundage, S. L.
LIPPINCOTT WILLIAMS & WILKINS.2007: 608-14
- **Venous air embolism and pressure infusion devices** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Mendenhall, M. L., Spain, D. A.
2007; 63 (1): 246-246
- **Recruitment strategies for a fall prevention program: If we build it, will they really come?** *36th Annual Meeting of the Western-Trauma-Association*
Shandro, J. R., Spain, D. A., Dicker, R. A.
LIPPINCOTT WILLIAMS & WILKINS.2007: 142-46
- **Requests for 692 transfers to an academic Level I trauma center: Implications of the Emergency Medical Treatment and Active Labor Act** *65th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Spain, D. A., Bellino, M., Kopelman, A., Chang, J., Park, J., Gregg, D. L., Brundage, S. I.
LIPPINCOTT WILLIAMS & WILKINS.2007: 63-67
- **Early enteral nutrition after abdominal trauma: effects on septic morbidity and practicality.** *Nutrition in clinical practice*
Weissenfluh, G. M., Brundage, S. I., Spain, D. A.
2006; 21 (5): 479-484
- **Dramatic shift in the primary management of traumatic thoracic aortic rupture** *ARCHIVES OF SURGERY*
Lebl, D. R., Dicker, R. A., Spain, D. A., Brundage, S. I.
2006; 141 (2): 177-180
- **Endovascular management of a gunshot wound to the thoracic aorta** *35th Annual Meeting of the Western-Trauma-Association*
Fang, T. D., Peterson, D. A., Kirilcuk, N. N., Dicker, R. A., Spain, D. A., Brundage, S. I.
LIPPINCOTT WILLIAMS & WILKINS.2006: 204-8
- **Are temporary inferior vena cava filters really temporary?** *57th Annual Meeting of the Southwestern-Surgical-Congress*
Kirilcuk, N. N., Herget, E. J., Dicker, R. A., Spain, D. A., Hellinger, J. C., Brundage, S. I.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2005: 858-63
- **Spontaneous splenic rupture: The masquerade of minor trauma** *35th Annual Meeting of the Western-Trauma-Association*
Tataria, M., Dicker, R. A., Melcher, M., Spain, D. A., Brundage, S. I.
LIPPINCOTT WILLIAMS & WILKINS.2005: 1228-30
- **Education and training of the future trauma surgeon in acute care surgery: trauma, critical care, and emergency surgery** *AMERICAN JOURNAL OF SURGERY*
Spain, D. A., Miller, F. B.
2005; 190 (2): 212-217
- **Potential targets to encourage a surgical career** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*
Brundage, S. I., Lucci, A., Miller, C. C., Azizzadeh, A., Spain, D. A., Kozar, R. A.
2005; 200 (6): 946-953

- **Acute care surgery: Trauma, critical care, and emergency surgery** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Jurkovich, G. J., Angood, P. B., Britt, L. D., Cioffi, W. G., Cryer, H. G., Esposito, T. J., Feliciano, D. V., Hoyt, D. B., Mackersie, R. C., Maier, R. V., Meredith, J. W., Mileski, W. J., Moore, et al
2005; 58 (3): 614-616
- **Poor validity of residual volumes as a marker for risk of aspiration in critically ill patients** *CRITICAL CARE MEDICINE*
McClave, S. A., Lukan, J. K., Stefater, J. A., Lowen, C. C., Looney, S. W., Matheson, P. J., Gleeson, K., Spain, D. A.
2005; 33 (2): 324-330
- **Interleukin-6 infusion blunts proinflammatory cytokine production without causing systematic toxicity in a swine model of uncontrolled hemorrhagic shock** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Brundage, S. I., Zautke, N. A., Holcomb, J. B., Spain, D. A., Lam, J. C., Mastrangelo, M. A., Macaitis, J. M., Tweardy, D. J.
2004; 57 (5): 970-977
- **Management of acute complete tracheal transection caused by nonpenetrating trauma: Report of a case and review of the literature** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Chow, J. L., Coady, M. A., Varner, J., Cannon, W., Spain, D., Brock-Utne, J. G.
2004; 18 (4): 475-478
- **Perioperative risk assessment in elderly and high-risk patients** *International Symposium on World Overview of Important Nutrition Problems and How They are Being Addressed*
Richardson, J. D., Cocanour, C. S., Kern, J. A., Garrison, R. N., Kirton, O. C., Cofer, J. B., Spain, D. A., Thomason, M. H.
ELSEVIER SCIENCE INC.2004: 133-46
- **Impairment of endothelium-dependent dilation response after resuscitation from hemorrhagic shock involved postreceptor mechanisms** *24th Annual Meeting of the Shock-Society*
Zakaria, E. R., Garrison, R. N., Spain, D. A., Harris, P. D.
LIPPINCOTT WILLIAMS & WILKINS.2004: 175-81
- **The continuing challenge of intra-abdominal infection.** *American journal of surgery*
Cheadle, W. G., Spain, D. A.
2003; 186 (5A): 15S-22S
- **The continuing challenge of intra-abdominal infection** *27th Annual Surgical Symposium of the Association-of-VA-Surgeons*
Cheadle, W. G., Spain, D. A.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2003: 15S-22S
- **Society of University Surgeons position statement on the volume-outcome relationship for surgical procedures** *SURGERY*
Berger, D. H., Ko, C. Y., Spain, D. A.
2003; 134 (1): 34-40
- **Intraperitoneal resuscitation improves intestinal blood flow following hemorrhagic shock** *114th Annual Meeting of the Southern-Surgical-Association*
Zakaria, E. R., Garrison, R. N., Spain, D. A., Matheson, P. J., Harris, P. D., Richardson, J. D.
LIPPINCOTT WILLIAMS & WILKINS.2003: 704-11
- **Immune-enhancing enteral diet increases blood flow and proinflammatory cytokines in the rat ileum** *26th Annual Meeting of the Association-of-VA-Surgeons*
Matheson, P. J., Hurt, R. T., Mittel, O. F., Wilson, M. A., Spain, D. A., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2003: 360-70
- **Achievement of steady state optimizes results when performing indirect calorimetry** *JOURNAL OF PARENTERAL AND ENTERAL NUTRITION*
McClave, S. A., Spain, D. A., Skolnick, J. L., Lowen, C. C., Kjeber, M. J., Wickerham, P. S., Vogt, J. R., Looney, S. W.
2003; 27 (1): 16-20
- **Resuscitation regimens for hemorrhagic shock must contain blood** *SHOCK*
Zakaria, E. R., Spain, D. A., Harris, P. D., Garrison, R. N.
2002; 18 (6): 567-573
- **Rates of overtriage & undertriage at a level 1 trauma center** *32nd Critical Care Congress of the Society-of-Critical-Care-Medicine*
Seiver, A., DiDomenico, P., Spain, D., Gregg, D., Curet, M.
LIPPINCOTT WILLIAMS & WILKINS.2002: A58-A58

- **When is the seriously ill patient ready to be fed?** *JPEN. Journal of parenteral and enteral nutrition*
Spain, D. A.
2002; 26 (6): S62-5
- **Risk factors for delirium tremens in trauma patients** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Lukan, J. K., Reed, D. N., Looney, S. W., Spain, D. A., Blondell, R. D.
2002; 53 (5): 901-906
- **Examination of the role of abdominal computed tomography in the evaluation of victims of trauma with increased aspartate aminotransferase in the era of focused abdominal sonography for trauma** *59th Annual Meeting of the Central-Surgical-Association*
Stassen, N. A., Lukan, J. K., Carrillo, E. H., Spain, D. A., Norfleet, L. A., Miller, F. B., Polk, H. C.
MOSBY-ELSEVIER.2002: 642-46
- **Generalized dilation of the visceral microvasculature by peritoneal dialysis solutions** *21st Annual Conference on Dialysis*
Zakaria, E. R., Spain, D. A., Harris, P. D., Garrison, R. N.
MULTIMED INC.2002: 593-601
- **Immune-enhancing enteral diet selectively augments ileal blood flow in the rat** *Annual Meeting of the Association-of-VA-Surgeons*
Rhoden, D., Matheson, P. J., Carricato, N. D., Spain, D. A., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2002: 25-30
- **Abdominal seat belt marks in the era of focused abdominal Sonography for trauma** *109th Scientific Session of the Western-Surgical-Association*
Stassen, N. A., Lukan, J. K., Carrillo, E. H., Spain, D. A., Richardson, J. D.
AMER MEDICAL ASSOC.2002: 718-22
- **Do facial fractures protect the brain or are they a marker for severe head injury?** *AMERICAN SURGEON*
Martin, R. C., Spain, D. A., Richardson, J. D.
2002; 68 (5): 477-481
- **Ventilator-associated pneumonia and surgical patients** *CHEST*
Spain, D. A.
2002; 121 (5): 1390-1391
- **A comparison of alcohol-positive and alcohol-negative trauma patients** *JOURNAL OF STUDIES ON ALCOHOL*
Blondell, R. D., Looney, S. W., Krieg, C. L., Spain, D. A.
2002; 63 (3): 380-383
- **Femoral vessel injuries** *SURGICAL CLINICS OF NORTH AMERICA*
Carrillo, E. H., Spain, D. A., Miller, F. B., Richardson, J. D.
2002; 82 (1): 49-?
- **Handsewn versus stapled anastomosis in penetrating colon injuries requiring resection: A multicenter study** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Demetriades, D., Murray, J. A., Chan, L. S., Ordonez, C., Bowley, D., Nagy, K. K., Cornwell, E. E., Velmahos, G. C., MUNOZ, N., Hatzitheofilou, C., Schwab, C. W., Rodriguez, A., Cornejo, et al
2002; 52 (1): 117-121
- **Development and implementation of a clinical pathway for severe traumatic brain injury** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Vitaz, T. W., McIlvoy, L., Raque, G. H., Spain, D., Shields, C. B.
2001; 51 (2): 369-375
- **Thermal injury in the elderly: When is comfort care the right choice?** *AMERICAN SURGEON*
Stassen, N. A., Lukan, J. K., Mizuguchi, N. N., Spain, D. A., Carrillo, E. H., Polk, H. C.
2001; 67 (7): 704-708
- **Progressive decrease in constrictor reactivity of the non-absorbing intestine during chronic sepsis** *23rd Annual Conference of the Shock-Society*
Zhao, H. L., Spain, D. A., Matheson, P. J., Harris, P. D., Garrison, R. N.
LIPPINCOTT WILLIAMS & WILKINS.2001: 40-43

- **Development and implementation of a clinical pathway for spinal cord injuries** *49th Annual Meeting of the Congress of Neurological Surgeons*
Vitaz, T. W., McIlvoy, L., Raque, G. H., Spain, D. A., Shields, C. B.
LIPPINCOTT WILLIAMS & WILKINS.2001: 271–76
- **Impact of recent trends of noninvasive trauma evaluation and nonoperative management in surgical resident education** *60th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Lukan, J. K., Carrillo, E. H., Franklin, G. A., Spain, D. A., Miller, F. B., Richardson, J. D.
LIPPINCOTT WILLIAMS & WILKINS.2001: 1015–19
- **Penetrating colon injuries requiring resection: Diversion or primary anastomosis? An AAST prospective multicenter study** *60th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Demetriades, D., Murray, J. A., Chan, L., Ordonez, C., Bowley, D., Nagy, K. K., Cornwell, E. E., Velmahos, G. C., MUNOZ, N., Hatzitheofilou, C., Schwab, C. W., Rodriguez, A., Cornejo, et al
LIPPINCOTT WILLIAMS & WILKINS.2001: 765–74
- **Successful incorporation of the Severe Head Injury Guidelines into a phased-outcome clinical pathway.** *journal of neuroscience nursing*
McIlvoy, L., Spain, D. A., RAQUE, G., Vitaz, T., Boaz, P., Meyer, K.
2001; 33 (2): 72-?
- **A multicenter evaluation of whether gender dimorphism affects survival after trauma** *AMERICAN JOURNAL OF SURGERY*
Wohlmann, C. D., Franklin, G. A., Boaz, P. W., Luchette, F. A., Kearney, P. A., Richardson, J. D., Spain, D. A.
2001; 181 (4): 297-300
- **"Incidental" pericardial effusion during surgeon-performed ultrasonography in patients with blunt torso trauma** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Lukan, J. K., Franklin, G. A., Spain, D. A., Carrillo, E. H.
2001; 50 (4): 743-745
- **Delayed laparoscopy facilitates the management of biliary peritonitis in patients with complex liver injuries** *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*
Carrillo, E. H., Reed, D. N., Gordon, L., Spain, D. A., Richardson, J. D.
2001; 15 (3): 319-322
- **Sepsis increases NOS-2 activity and decreases non-NOS-mediated acetylcholine-induced dilation in rat aorta** *24th Annual Symposium of the Association-of-Veterans-Administration-Surgeons*
Beach, P. K., Spain, D. A., Kawabe, T., Harris, P. D., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2001: 17–22
- **Does cell-saver blood administration and free hemoglobin load cause renal dysfunction?** *AMERICAN SURGEON*
Klodell, C. T., Richardson, J. D., Bergamini, T. M., Spain, D. A.
2001; 67 (1): 44-47
- **Sustained infection induces 2 distinct microvascular mechanisms in the splanchnic circulation** *57th Annual Meeting of the Central-Surgical-Association*
Zhao, H. L., Spain, D. A., Matheson, P. J., Vaughn, C., Harris, P. D., Garrison, R. N.
MOSBY-ELSEVIER.2000: 513–18
- **Lazaroid and pentoxifylline suppress sepsis-induced increases in renal vascular resistance via altered arachidonic acid metabolism** *Annual Meeting of the Association-for-Academic-Surgery*
Kryzstopik, R. J., Matheson, P. J., Spain, D. A., Garrison, R. N., Wilson, M. A.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2000: 75–81
- **Evolution in the management of hepatic trauma: A 25-year perspective** *120th Annual Meeting of the American-Surgical-Association*
Richardson, J. D., Franklin, G. A., Lukan, J. K., Carrillo, E. H., Spain, D. A., Miller, F. B., Wilson, M. A., Polk, H. C., Flint, L. M.
LIPPINCOTT WILLIAMS & WILKINS.2000: 324–29
- **Prehospital hypotension as a valid indicator of trauma team activation** *59th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Franklin, G. A., Boaz, P. W., Spain, D. A., Lukan, J. K., Carrillo, E. H., Richardson, J. D.
LIPPINCOTT WILLIAMS & WILKINS.2000: 1034–37
- **Blunt hemopericardium detected by surgeon-performed sonography** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Carrillo, E. H., Schirmer, T. P., Sideman, M. J., Wallace, J. M., Spain, D. A.

2000; 48 (5): 971-974

- **Practice management guidelines for prophylactic antibiotic use in tube thoracostomy for traumatic hemopneumothorax: The EAST practice management guidelines work group** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Luchette, F. A., Barrie, P. S., Oswanski, M. F., Spain, D. A., Mullins, C. D., Palumbo, F., Pasquale, M. D.
2000; 48 (4): 753-757
- **Should trauma surgeons do general surgery?** *59th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Spain, D. A., Richardson, J. D., Carrillo, E. H., Miller, F. B., Wilson, M. A., Polk, H. C.
LIPPINCOTT WILLIAMS & WILKINS.2000: 433-37
- **Routine intragastric feeding following traumatic brain injury is safe and well tolerated** *28th Educational and Scientific Symposium of the Society-of-Critical-Care-Medicine*
Klodell, C. T., Carroll, M., Carrillo, E. H., Spain, D. A.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2000: 168-71
- **Discussion** *American journal of surgery*
Spain, CROCE, Rodriguez, CROCE, Rodriguez, LIVINGSTON, Spain, Barie, Malangoni, Barie
2000; 179 (2A): 30-?
- **Discussion** *American journal of surgery*
POLK, Fabian, POLK, Fabian, LIVINGSTON, Rodriguez, Rodriguez, Malangoni, Malangoni, Spain, Boucher, Cheadle, Boucher, CROCE
2000; 179 (2A): 24-25
- **Discussion** *American journal of surgery*
Barie, Fabian, Barie, Malangoni, Malangoni, Rodriguez, Spain, Rodriguez, Fabian
2000; 179 (2A): 7-?
- **Discussion** *American journal of surgery*
Barie, CROCE, Spain, POLK, Barie, POLK, LIVINGSTON, CROCE, Spain, Rodriguez, Rodriguez, Boucher, Boucher
2000; 179 (2A): 39-40
- **Empyema and restrictive pleural processes after blunt trauma: An under-recognized cause of respiratory failure** *AMERICAN SURGEON*
Watkins, J. A., Spain, D. A., Richardson, J. D., Polk, H. C.
2000; 66 (2): 210-214
- **The continuing challenge of Fournier's gangrene in the 1990s** *67th Annual Meeting of the Southeastern-Surgical-Congress*
Olsofka, J. N., Carrillo, E. H., Spain, D. A., Polk, H. C.
SOUTHEASTERN SURGICAL CONGRESS.1999: 1156-59
- **Infusion protocol improves delivery of enteral tube feeding in the critical care unit** *22nd Clinical Congress of the American-Society-of-Parenteral-and-Enteral-Nutrition*
Spain, D. A., McClave, S. A., Sexton, L. K., Adams, J. L., Blanford, B. S., Sullins, M. E., Owens, N. A., Snider, H. L.
SAGE PUBLICATIONS INC.1999: 288-92
- **Enteral tube feeding in the intensive care unit: Factors impeding adequate delivery** *CRITICAL CARE MEDICINE*
McClave, S. A., Sexton, L. K., Spain, D. A., Adams, J. L., Owens, N. A., Sullins, M. B., Blandford, B. S., Snider, H. L.
1999; 27 (7): 1252-1256
- **Decreased alpha-adrenergic response in the intestinal microcirculation after "two-hit" hemorrhage resuscitation and bacteremia** *Annual Meeting of the Association-for-Academic-Surgery*
Spain, D. A., Kawabe, T., Keelan, P. C., Wilson, M. A., Harris, P. D., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.1999: 180-85
- **Blunt carotid artery injuries: Difficulties with the diagnosis prior to neurologic event** *105th Annual Meeting of the Western-Surgical-Association*
Carrillo, E. H., Osborne, D. L., Spain, D. A., Miller, F. B., Senler, S. O., Richardson, J. D.
LIPPINCOTT WILLIAMS & WILKINS.1999: 1120-25
- **Glucose and glutamine gavage increase portal vein nitric oxide metabolite levels via adenosine A2b activation** *JOURNAL OF SURGICAL RESEARCH*
Matheson, P. J., Spain, D. A., Harris, P. D., Garrison, R. N., Wilson, M. A.
1999; 84 (1): 57-63

- **Common and external iliac artery injuries associated with pelvic fractures** *13th Annual Meeting of the Orthopaedic-Trauma-Association*
Carrillo, E. H., Wohltmann, C. D., Spain, D. A., Schmieg, R. E., Miller, F. B., Richardson, J. D.
LIPPINCOTT WILLIAMS & WILKINS.1999: 351–55
- **Subacute sepsis impairs vascular smooth muscle contractile machinery and alters vasoconstrictor and dilator mechanisms** *Annual Meeting of the Association-for-Academic-Surgery*
Price, S. A., Spain, D. A., Wilson, M. A., Harris, P. D., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.1999: 75–80
- **Preoperative issues in clinical nutrition** *CHEST*
McClave, S. A., Snider, H. L., Spain, D. A.
1999; 115 (5): 64S-70S
- **Interventional techniques are useful adjuncts in nonoperative management of hepatic injuries** *58th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma/Trauma-Association-of-Canada*
Carrillo, E. H., Spain, D. A., Wohltmann, C. D., Schmieg, R. E., Boaz, P. W., Miller, F. B., Richardson, J. D.
LIPPINCOTT WILLIAMS & WILKINS.1999: 619–22
- **Complement activation mediates intestinal injury after resuscitation from hemorrhagic shock** *58th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma/Trauma-Association-of-Canada*
Spain, D. A., Fruchterman, T. M., Matheson, P. J., Wilson, M. A., Martin, A. W., Garrison, R. N.
LIPPINCOTT WILLIAMS & WILKINS.1999: 224–32
- **Altered vasoconstrictor and dilator responses after a "two-hit" model of sequential hemorrhage and bacteremia** *22nd Annual Symposium of the Association-of-Veterans-Administration-Surgeons*
Price, S. A., Spain, D. A., Wilson, M. A., Harris, P. D., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.1999: 59–64
- **Selective microvascular endothelial cell dysfunction in the small intestine following resuscitated hemorrhagic shock** *21st Annual Conference on Shock*
Fruchterman, T. M., Spain, D. A., Wilson, M. A., Harris, P. D., Garrison, R. N.
LIPPINCOTT WILLIAMS & WILKINS.1998: 417–22
- **Small intestinal production of nitric oxide is decreased following resuscitated hemorrhage** *JOURNAL OF SURGICAL RESEARCH*
Fruchterman, T. M., Spain, D. A., Matheson, P. J., Martin, A. W., Wilson, M. A., Harris, P. D., Garrison, R. N.
1998; 80 (1): 102-109
- **Complement inhibition prevents gut ischemia and endothelial cell dysfunction after hemorrhage/resuscitation** *55th Annual Meeting of the Central-Surgical-Association*
Fruchterman, T. M., Spain, D. A., Wilson, M. A., Harris, P. D., Garrison, R. N.
MOSBY-ELSEVIER.1998: 782–92
- **Effect of a clinical pathway for severe traumatic brain injury on resource utilization** *57th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Spain, D. A., McIlvoy, L. H., Fix, S. E., Carrillo, E. H., Boaz, P. W., Harpring, J. E., Raque, G. H., Miller, F. B.
LIPPINCOTT WILLIAMS & WILKINS.1998: 101–4
- **Nutritional management in acute and chronic pancreatitis** *GASTROENTEROLOGY CLINICS OF NORTH AMERICA*
McClave, S. A., Spain, D. A., Snider, H. L.
1998; 27 (2): 421-?
- **Microvascular changes explain the "two-hit" theory of multiple organ failure** *109th Annual Meeting of the Southern-Surgical-Association*
Garrison, R. N., Spain, D. A., Wilson, M. A., Keelen, P. A., Harris, P. D.
LIPPINCOTT WILLIAMS & WILKINS.1998: 851–59
- **Comparison of sequential compression devices and foot pumps for prophylaxis of deep venous thrombosis in high-risk trauma patients** *66th Annual Scientific Meeting and Postgraduate Course Program of the Southeastern-Surgical-Congress*
Spain, D. A., Bergamini, T. M., Hoffmann, J. F., Carrillo, E. H., Richardson, J. D.
SOUTHEASTERN SURGICAL CONGRESS.1998: 522–26
- **Thoracoscopy in the management of posttraumatic persistent pneumothorax** *American-College-of-Surgeons 83rd Annual Clinical Congress*
Carrillo, E. H., Schmacht, D. C., Gable, D. R., Spain, D. A., Richardson, J. D.

ELSEVIER SCIENCE INC.1998: 636–39

- **Alternatives in the management of penetrating injuries to the iliac vessels** *57th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Carrillo, E. H., Spain, D. A., Wilson, M. A., Miller, F. B., Richardson, J. D.
LIPPINCOTT WILLIAMS & WILKINS.1998: 1024–29
- **Impact of trauma attending surgeon case volume on outcome: Is more better?** *57th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Richardson, J. D., Schmieg, R., Boaz, P., Spain, D. A., Wohltmann, C., Wilson, M. A., Carrillo, E. H., Miller, F. B., Fulton, R. L.
LIPPINCOTT WILLIAMS & WILKINS.1998: 266–71
- **Quality assessment of intraoperative blood salvage and autotransfusion** *65th Annual Scientific Meeting and Postgraduate Course Program of the Southeastern-Surgical-Congress*
Spain, D. A., Miller, F. B., Bergamini, T. M., Montgomery, R. C., Richardson, J. D.
SOUTHEASTERN SURGICAL CONGRESS.1997: 1059–63
- **Lazaroid improves intestinal blood flow in the rat during hyperdynamic bacteraemia** *BRITISH JOURNAL OF SURGERY*
Krysztopik, R. J., Bentley, F. R., Spain, D. A., Wilson, M. A., Garrison, R. N.
1997; 84 (12): 1717-1721
- **Twelfth rib resection - Preferred therapy for subphrenic abscess in selected surgical patients** *17th Annual Meeting of the Surgical-Infection-Society*
Spain, D. A., Martin, R. C., Carrillo, E. H., Polk, H. C.
AMER MEDICAL ASSOC.1997: 1203–6
- **Percutaneous dilational tracheostomy for airway control** *43rd Annual Meeting of the Society-of-Head-and-Neck-Surgeons*
Carrillo, E. H., Spain, D. A., Bumpous, J. M., Schmieg, R. E., Miller, F. B., Richardson, J. D.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.1997: 469–73
- **Bedside percutaneous endoscopic gastrostomy - A safe alternative for early nutritional support in critically ill trauma patients** *Annual Scientific Session of the Society-of-American-Gastrointestinal-Endoscopic-Surgeons*
Carrillo, E. H., Heniford, B. T., Osborne, D. L., Spain, D. A., Miller, F. B., Richardson, J. D.
SPRINGER-VERLAG.1997: 1068–71
- **Glucose-induced intestinal hyperemia is mediated by nitric oxide** *30th Annual Meeting of the Association-for-Academic-Surgery*
Matheson, P. J., Wilson, M. A., Spain, D. A., Harris, P. D., Anderson, G. L., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.1997: 146–54
- **Risk-taking behaviors among adolescent trauma patients** *55th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma / 13th Annual Meeting of the Trauma-Association-of-Canada*
Spain, D. A., Boaz, P. W., Davidson, D. J., Miller, F. B., Carrillo, E. H., Richardson, J. D.
WILLIAMS & WILKINS.1997: 423–26
- **Heme oxygenase-dependent carbon monoxide production is a hepatic adaptive response to sepsis** *JOURNAL OF SURGICAL RESEARCH*
Downard, P. J., Wilson, M. A., Spain, D. A., Matheson, P. J., Siow, Y., Garrison, R. N.
1997; 71 (1): 7-12
- **Intrahepatic vascular clamping in complex hepatic vein injuries** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Carrillo, E. H., Spain, D. A., Miller, F. B., Richardson, J. D.
1997; 43 (1): 131-133
- **Lazaroids prevent acute cyclosporine-induced renal vasoconstriction** *15th Annual Meeting of the American-Society-of-Transplant-Physicians*
Krysztopik, R. J., Bentley, F. R., Spain, D. A., Wilson, M. A., Garrison, R. N.
LIPPINCOTT WILLIAMS & WILKINS.1997: 1215–20
- **The role of thoracoscopy in the management of retained thoracic collections after trauma** *43rd Annual Meeting of the Southern-Thoracic-Surgical-Association*
Heniford, B. T., Carrillo, E. H., Spain, D. A., Sosa, J. L., Fulton, R. L., Richardson, J. D.
ELSEVIER SCIENCE INC.1997: 940–43
- **Blunt popliteal artery trauma: A challenging injury** *64th Annual Scientific Meeting and Postgraduate Course Program, Southeastern-Surgical-Congress*
Harrell, D. J., Spain, D. A., Bergamini, T. M., Miller, F. B., Richardson, J. D.
SOUTHEASTERN SURGICAL CONGRESS.1997: 228–31

- **Venous thromboembolism in the high-risk trauma patient: Do risks justify aggressive screening and prophylaxis?** *56th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Spain, D. A., Richardson, J. D., Polk, H. C., Bergamini, T. M., Wilson, M. A., Miller, F. B.
WILLIAMS & WILKINS.1997: 463–67
- **Differential intestinal microvascular dysfunction occurs during bacteremia** *Annual Symposium of the Association-of-Veterans-Administration-Surgeons*
Spain, D. A., Wilson, M. A., Krysztopik, R. J., Matheson, P. J., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.1997: 67–71
- **Heparan preserves intestinal perfusion after hemorrhage and resuscitation** *29th Annual Meeting of the Association-of-Veterans-Administration-Surgeons*
Watkins, J. M., Spain, D. A., Krysztopik, R. J., Downard, P. J., Wilson, M. A., Garrison, R. N.
ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS.1996: 154–58
- **Operative strategies for management of abdominal aortic gunshot wounds** *53rd Annual Meeting of the Central-Surgical-Association*
Richardson, J. D., Bergamini, T. M., Spain, D. A., Wilson, M. A., Carrillo, E. H., Garrison, R. N., Fulton, R. L., Miller, F. B.
MOSBY-ELSEVIER.1996: 667–71
- **Free radical scavenging by lazaroids improves renal blood flow during sepsis** *53rd Annual Meeting of the Central-Surgical-Association*
Krysztopik, R. J., Bentley, F. R., Spain, D. A., Wilson, M. A., Garrison, R. N.
MOSBY-ELSEVIER.1996: 657–62
- **Fluid resuscitation attenuates early cytokine mRNA expression after peritonitis** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Wilson, M. A., Chou, M. C., Spain, D. A., Downard, P. J., Qian, Q. H., Cheadle, W. G., Garrison, R. N.
1996; 41 (4): 622-627
- **Complex thoracic injuries** *SURGICAL CLINICS OF NORTH AMERICA*
Richardson, J. D., Miller, F. B., Carrillo, E. H., Spain, D. A.
1996; 76 (4): 725-?
- **Vasomotor response to pentoxifylline mediates improved renal blood flow to bacteremia.** *journal of surgical research*
Krysztopik, R. J., Bentley, F. R., Wilson, M. A., Spain, D. A., Garrison, R. N.
1996; 63 (1): 17-22
- **Vasomotor response to pentoxifylline mediates improved renal blood flow in bacteremia** *Annual Meeting of the Association-for-Academic-Surgery*
Krysztopik, R. J., Bentley, F. R., Spain, D. A., Garrison, R. N.
ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS.1996: 17–22
- **Predicting the need to pack early for severe intra-abdominal hemorrhage** *55th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma / 13th Annual Meeting of the Trauma-Association-of-Canada*
Garrison, J. R., Richardson, J. D., HILAKOS, A. S., Spain, D. A., Miller, F. B., Fulton, R. L.
LIPPINCOTT WILLIAMS & WILKINS.1996: 923–27
- **Preoperative saline loading improves outcome after elective, noncardiac surgical procedures** *63rd Annual Scientific Meeting and Postgraduate Course Program of the Southeastern Surgical Congress*
Garrison, R. N., Wilson, M. A., Matheson, P. J., Spain, D. A.
SOUTHEASTERN SURGICAL CONGRESS.1996: 223–31
- **Nitric oxide: A compensatory mediator of bacteremia-induced visceral microvascular hypoperfusion** *3rd International Congress on the Immune Consequences of Trauma, Shock and Sepsis - Mechanisms and Therapeutic Approaches*
Spain, D. A., Wilson, M. A., THEUER, H. H., Garrison, R. N.
PABST SCIENCE PUBLISHERS.1996: 710–714
- **ENDOTHELIN-1 EXPRESSION IN THE SMALL-INTESTINE DURING CHRONIC PERITONITIS** *SHOCK*
Chou, M. C., Wilson, M. A., Spain, D. A., Hadjiminias, D., Anderson, G. L., Cheadle, W. G., Garrison, R. N.
1995; 4 (6): 411-414
- **Transpyloric passage of feeding tubes in patients with head injuries does not decrease complications** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Spain, D. A., DEWEESE, C., REYNOLDS, M. A., Richardson, J. D.
1995; 39 (6): 1100-1102

- **HAEMOPHILUS PNEUMONIA IS A COMMON-CAUSE OF EARLY PULMONARY DYSFUNCTION FOLLOWING TRAUMA** *15th Annual Meeting of the Surgical-Infection-Society*
Spain, D. A., Wilson, M. A., Boaz, P. W., Barnatan, M. F., Garrison, R. N.
AMER MEDICAL ASSOC.1995: 1228–32
- **IS THE TIMING OF FRACTURE FIXATION IMPORTANT FOR THE PATIENT WITH MULTIPLE TRAUMA** *115th Annual Meeting of the American-Surgical-Association*
REYNOLDS, M. A., Richardson, J. D., Spain, D. A., Seligson, D., Wilson, M. A., Miller, F. B.
LIPPINCOTT WILLIAMS & WILKINS.1995: 470–81
- **ALPHA-ADRENERGIC RECEPTOR ANTAGONISM PREVENTS INTESTINAL VASOCONSTRICTION BUT NOT HYPOPERFUSION FOLLOWING RESUSCITATED HEMORRHAGE** *JOURNAL OF SURGICAL RESEARCH*
THEUER, C. J., Wilson, M. A., Spain, D. A., Edwards, M. J., Garrison, R. N.
1995; 59 (2): 292-298
- **NITRIC-OXIDE MEDIATES REDISTRIBUTION OF INTRARENAL BLOOD-FLOW DURING BACTEREMIA** *54th Annual Meeting of the American-Association-for-the-Surgery-of-Trauma*
Garrison, R. N., Wilson, M. A., Matheson, P. J., Spain, D. A.
LIPPINCOTT WILLIAMS & WILKINS.1995: 90–97
- **AN EXPERIMENTAL-STUDY OF ALTERED NITRIC-OXIDE METABOLISM AS A MECHANISM OF CYCLOSPORINE-INDUCED RENAL VASOCONSTRICTION** *BRITISH JOURNAL OF SURGERY*
BLOOM, I. T., Bentley, F. R., Spain, D. A., Garrison, R. N.
1995; 82 (2): 195-198
- **PLATELET-ACTIVATING-FACTOR AND SEPSIS-INDUCED SMALL-INTESTINAL MICROVASCULAR HYPOPERFUSION** *Annual Symposium of the Association-of-Veterans-Administration-Surgeons*
Barnatan, M. F., Wilson, M. A., Spain, D. A., Garrison, R. N.
ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS.1995: 38–45
- **The delirious ICU patient: often misdiagnosed and undertreated.** *journal of the Kentucky Medical Association*
Spain, D. A., Miller, F. B.
1995; 93 (1): 10-14
- **DIFFERENTIAL MICROVASCULAR RESPONSE TO CYCLOOXYGENASE BLOCKADE IN THE RAT SMALL-INTESTINE DURING ACUTE BACTEREMIA** *SHOCK*
Gosche, J. R., Spain, D. A., Garrison, R. N., Lubbe, A. S., Cryer, H. G.
1994; 2 (6): 408-412
- **ANTIBIOTIC OVERKILL OF TRAUMA VICTIMS** *AMERICAN JOURNAL OF SURGERY*
Hadjiminas, D., Cheadle, W. G., Spain, D. A., Wilson, M. A., Short, A., Starko, K. M., Harris, B. J., Livingston, D. H., Rodriguez, J. L.
1994; 168 (3): 288-290
- **NITRIC-OXIDE SYNTHASE INHIBITION EXACERBATES SEPSIS-INDUCED RENAL HYPOPERFUSION** *55th Annual Meeting of the Society-of-University-Surgeons*
Spain, D. A., Wilson, M. A., Garrison, R. N.
MOSBY-ELSEVIER.1994: 322–31
- **ROLE OF NITRIC-OXIDE IN THE SMALL-INTESTINAL MICROCIRCULATION DURING BACTEREMIA** *SHOCK*
Spain, D. A., Wilson, M. A., Barnatan, M. F., Garrison, R. N.
1994; 2 (1): 41-46
- **RENAL MICROVASCULAR RESPONSES TO SEPSIS ARE DEPENDENT ON NITRIC-OXIDE** *Annual Meeting of the Association-for-Academic-Surgery*
Spain, D. A., Wilson, M. A., BLOOM, I. T., Garrison, R. N.
ACADEMIC PRESS INC ELSEVIER SCIENCE.1994: 524–29
- **NITRIC-OXIDE SYNTHASE INHIBITION AGGRAVATES INTESTINAL MICROVASCULAR VASOCONSTRICTION AND HYPOPERFUSION OF BACTEREMIA** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
Spain, D. A., Wilson, M. A., Barnatan, M. F., Garrison, R. N., GRYER, H. G., Swan, K. G.
1994; 36 (5): 720-725

- **TRACHEOSTOMY AND PERCUTANEOUS ENDOSCOPIC GASTROSTOMY IN THE MANAGEMENT OF THE HEAD-INJURED TRAUMA PATIENT** *61st Annual Scientific Meeting of the Southeastern-Surgical-Congress*
DAMELIO, L. F., Hammond, J. S., Spain, D. A., Sutyak, J. P.
SOUTHEASTERN SURGICAL CONGRESS.1994: 180-85
- **OPERATIVE TUBE VERSUS PERCUTANEOUS CHOLECYSTOSTOMY FOR ACUTE CHOLECYSTITIS** *AMERICAN JOURNAL OF SURGERY*
Spain, D. A., Bibbo, C., ECKER, T., Noshier, J. L., Brolin, R. E.
1993; 166 (1): 28-31
- **NONOPERATIVE MANAGEMENT OF BILATERAL SHATTERED KIDNEYS FROM BLUNT TRAUMA** *UROLOGY*
Spain, D. A., Berger, Y., BOYARSKY, A. H., Flancbaum, L. J.
1993; 41 (6): 579-581
- **PERITONEAL LEUKOCYTE RESPONSE FOLLOWING PLACEMENT OF POLYGLYCOLIC ACID INTESTINAL SLING IN PATIENTS WITH RECTAL-CARCINOMA** *DISEASES OF THE COLON & RECTUM*
DEVEREUX, D. F., OCONNELL, S. M., Spain, D. A., Robertson, F. M.
1991; 34 (8): 670-674
- **THE ADEQUACY AND COST-EFFECTIVENESS OF ROUTINE RESUSCITATION-AREA CERVICAL-SPINE RADIOGRAPHS** *ANNALS OF EMERGENCY MEDICINE*
Spain, D. A., Trooskin, S. Z., Flancbaum, L., BOYARSKY, A. H., Noshier, J. L.
1990; 19 (3): 276-278
- **Whipple operation revisited.** *New Jersey medicine : the journal of the Medical Society of New Jersey*
Spain, D. A., Greco, R. S.
1990; 87 (1): 41-44