Stanford



Ariel Whitney Knight

- Clinical Assistant Professor, Surgery - General Surgery
- Clinical Associate Professor, Surgery - General Surgery

CLINICAL OFFICE (PRIMARY)

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Bio

CLINICAL FOCUS

- General Surgery

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Surgery - General Surgery
- Clinical Associate Professor, Surgery - General Surgery

PROFESSIONAL EDUCATION

- Board Certification: Surgical Critical Care, American Board of Surgery (2021)
- Fellowship: UCSF Surgery Fellowships (2022) CA
- Fellowship: UCSF Surgery Fellowships (2021) CA
- Residency: Mayo Clinic General Surgery Residency (2020) MN
- Medical Education: University of Washington School of Medicine (2015) WA

Research & Scholarship

CLINICAL TRIALS

- Real-Time Diagnosis of Life-Threatening Necrotizing Soft Tissue Infections (NSTI) Using Indocyanine Green (ICG) Kinetic Modeling, Recruiting
- Treatment of Adult Traumatic Rib Fractures With Percutaneous Cryoneurolysis, Not Recruiting

Publications

PUBLICATIONS

- **Applying the Golden Rule to the Golden Hour.** *JAMA surgery*
  Knight, A. W., Forrester, J. D., Knowlton, L. M.
  2026
- **Chest wall heterotopic ossification causing restrictive physiology after resuscitative thoracotomy and surgical stabilization of rib fractures: a report and review.** *Trauma surgery & acute care open*

Knight, A. W., Anderson, M., Rahimy, E., Forrester, J.
2026; 11 (2): e002149

- **Integrating advanced practice providers in acute care surgery: considerations, solutions, and fresh perspectives.** *Trauma surgery & acute care open*
  Lasinski, A. M., Spencer, A. L., Garces-King, J., O'Meara, L., Banes, C., Borth, A., Reynolds, B., Adelstein, M., Messing, J., Knight, A. W., Trevino, C., Kuebler, T., Forrester, et al
  2026; 11 (1): e001943

- **Integrating advanced practice providers in acute care surgery: considerations, solutions, and fresh perspectives** *TRAUMA SURGERY & ACUTE CARE OPEN*
  Lasinski, A. M., Spencer, A. L., Garces-King, J., O'meara, L., Banes, C., Borth, A., Reynolds, B., Adelstein, M., Messing, J., Knight, A., Trevino, C., Kuebler, T., Forrester, et al
  2026; 11 (1)

- **Lost fractures: prevalence and risk factors for missed costosternal and costal cartilage fractures among patients with radiologic chest wall injury.** *Trauma surgery & acute care open*
  Forrester, J. D., Abou Chaar, M., Barnes, A. T., Bauman, Z. M., Bendjemil, S., Betts, N. N., Christie, B., Dasari, R., Wb, D., Earley, M. J., Faliks, B., Johns, T. J., Johnson, et al
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- **Chilling the nerve, easing the pain?: A randomized clinical trial evaluating surgeon-administered bedside percutaneous cryoneurolysis for rib fracture pain.** *The journal of trauma and acute care surgery*
  Forrester, J. D., Tung, J. T., Knight, A. W., Wang, S., Myers, A. A., King, J. M., Earley, M. J., Guthrie-Baker, S., Flojo, R. B., Chen, J. T., Abreo, A. M.
  2025

- **Surgical stabilization of flail sternum and bilateral chest wall injury in an octogenarian after horse trampling injury.** *Trauma surgery & acute care open*
  Tai, J. W., Ko, B., Adams, M. E., Nobuhara, C. K., Knight, A. W., Forrester, J. D.
  2025; 10 (4): e001999

- **Application of evidence into practice in trauma: the Purpose-to-Practice (P2P) approach to consensus generation.** *Trauma surgery & acute care open*
  Guido, J. M., Krause, M., Frankel, B., Hillmer, E., Knight, A. W., Grider, K. T., Moreno, A. N., LaGrone, L. N.
  2025; 10 (Suppl 5): e002061

- **Contemporary management of pulmonary contusions: a narrative review** *CURRENT CHALLENGES IN THORACIC SURGERY*
  Chau, H. S., Gutkin, P. M., Knight, A. W., Forrester, J. D.
  2025; 7

- **Application of Evidence into Practice in Trauma: The Purpose to Practice (P2P) Approach to Consensus Generation.** *medRxiv : the preprint server for health sciences*
  Guido, J. M., Krause, M., Frankel, B., Hillmer, E., Knight, A. W., Grider, K., Moreno, A. N., LaGrone, L. N., Bixby, P., Bonne, S., Bulger, E. M., Cain, J. G., Chastek, et al
  2025

- **Futility Thresholds for Emergency General Surgery in the Post-Cardiac Intensive Care Unit.** *The Journal of surgical research*
  Villarreal, J. A., Satyadi, W., Tennakoon, L., Knowlton, L. M., Knight, A., Forrester, J. D.
  2025; 313: 78-83

- **Trauma in pregnancy: A systematic review, meta-analysis, and practice management guideline from the Eastern Association for the Surgery of Trauma.** *The journal of trauma and acute care surgery*
  Appelbaum, R. D., Yorkgitis, B., Rosen, J., Butts, C. A., To, J., Knight, A. W., Zhang, J., Kirsch, J. M., Levin, J. H., Riera, K. M., Kelley, K. M., Carter, K. T., Sawhney, et al
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- **Prospective multicenter external validation of the rib fracture frailty index.** *The journal of trauma and acute care surgery*
  Choi, J., Villarreal, J. A., Handelsman, R., Kirkorowciz, J., Knight, A., Kumar, A., McNabb, E., Perlstein, J., Tesoriero, R. B., Tsui, E. Y., White, C., Forrester, J. D.
  2025

- **Ultrasound-guided percutaneous cryoneurolysis of intercostal nerves in traumatic rib fractures.** *Injury*

Forrester, J. D., Wang, S., Myers, A. A., Earley, M., Guthrie-Baker, S., Abreo, A., Knight, A. W., Tung, J.
2025: 112321

- **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
- **Cholecystocolonic fistula: an unusual presentation of large bowel obstruction.** *Trauma surgery & acute care open*
  Knight, A. W., Wu, R., Tennakoon, L., Knowlton, L. M.
  2024; 9 (Suppl 1): e001242
- **Delayed hollow viscus injury with an occult seatbelt abrasion presenting as a small bowel obstruction.** *Trauma case reports*
  Shideler, B. L., Berera, D. C., Knowlton, L. M., Knight, A. W.
  2023; 48: 100934
- **Chest Wall Injury Society (CWIS) recommendation for surgical stabilization of non-united rib fractures (SSNURF) to decrease pain, reduce opiate use, and improve patient reported outcomes in patients with rib fracture non-union after trauma.** *The journal of trauma and acute care surgery*
  Forrester, J. D., Bauman, Z. M., Cole, P. A., Edwards, J. G., Knight, A., LaRoque, M., Raffa, T., White, T. W., Kartiko, S.
  2023
- **Small bowel obstruction managed without hospital admission: A safe way to reduce both cost and time in the hospital?** *Surgery*
  Mahony, C. R., Traynor, M. D., Knight, A. W., Hughes, J. D., Hernandez, M. C., Finnesgard, E. J., Musa, J., Selby, S. L., Rivera, M., Kim, B. D., Heller, S. F., Zielinski, M. D.
  2022; 171 (6): 1665-1670
- **Factors associated with receipt of intracranial pressure monitoring in older adults with traumatic brain injury.** *Trauma surgery & acute care open*
  Ghneim, M., Albrecht, J., Brasel, K., Knight, A., Liveris, A., Watras, J., Michetti, C. P., Haan, J., Lightwine, K., Winfield, R. D., Adams, S. D., Podbielski, J., Armen, et al
  2021; 6 (1): e000733
- **Predicting the Outcome of Non-operative Management of Splenic Trauma in South Africa.** *World journal of surgery*
  Hernandez, M. C., Traynor, M. D., Knight, A. W., Kong, V. Y., Laing, G. L., Bruce, J. L., Bekker, W., Zielinski, M. D., Clarke, D. L.
  2020; 44 (5): 1485-1491
- **Disease Severity and Cost in Adhesive Small Bowel Obstruction.** *World journal of surgery*
  Hernandez, M. C., Finnesgard, E. J., Shariq, O. A., Knight, A., Stephens, D., Aho, J. M., Kim, B. D., Schiller, H. J., Zielinski, M. D.
  2019; 43 (12): 3027-3034
- **Opioid utilization in minimally invasive versus open inguinal hernia repair.** *Surgery*
  Knight, A. W., Habermann, E. B., Ubl, D. S., Zielinski, M. D., Thiels, C. A.
  2019; 166 (5): 752-757
- **The cost burden of clinically significant esophageal anastomotic leaks-a steep price to pay.** *The Journal of thoracic and cardiovascular surgery*
  Agzarian, J., Visscher, S. L., Knight, A. W., Allen, M. S., Cassivi, S. D., Nichols, F. C., Shen, K. R., Wigle, D., Blackmon, S. H.
  2019; 157 (5): 2086-2092
- **The ongoing debate regarding optimal nutritional routes following esophagectomy.** *Journal of thoracic disease*
  Knight, A. W., Blackmon, S. H.
  2016; 8 (11): 3006-3008
- **Comparing Robotic Lung Resection With Thoracotomy and Video-Assisted Thoracoscopic Surgery Cases Entered Into The Society of Thoracic Surgeons Database** *INNOVATIONS-TECHNOLOGY AND TECHNIQUES IN CARDIOTHORACIC AND VASCULAR SURGERY*
  Farivar, A. S., Cerfolio, R. J., Vallieres, E., Knight, A. W., Bryant, A., Lingala, V., Aye, R. W., Louie, B. E.
  2014; 9 (1): 10-15
- **The laparoscopic Nissen-Hill hybrid: pilot study of a combined antireflux procedure.** *Surgical endoscopy*
  Qureshi, A. P., Aye, R. W., Buduhan, G., Knight, A., Orlina, J., Farivar, A. S., Wagner, O. J., McHugh, S., Louie, B. E.

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- **A randomized multiinstitution comparison of the laparoscopic Nissen and Hill repairs.** *The Annals of thoracic surgery*
  Aye, R. W., Swanstrom, L. L., Kapur, S., Buduhan, G., Dunst, C. M., Knight, A., Malmgren, J. A., Louie, B. E.
  2012; 94 (3): 951-7; discussion 957-8