

Stanford



Andrew A. Shelton, MD, FACS, FACRS

Clinical Professor, Surgery - General Surgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Clinical Cancer Center**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

CLINICAL FOCUS

- Cancer > GI Oncology
- Rectal Cancer
- Colorectal Cancer
- Crohn's Disease
- Colorectal Cancer - Surgery
- Gastrointestinal Cancers
- Gastrointestinal Cancers - Surgical Oncology
- Inflammatory Bowel Diseases
- Ulcerative Colitis
- Laparoscopic colorectal surgery
- Minimally Invasive Surgical Procedures
- General Surgery

ACADEMIC APPOINTMENTS

- Clinical Professor, Surgery - General Surgery
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Clinical Director Medical Informatics, Stanford University Hospital and Clinics, (2006- present)

HONORS AND AWARDS

- Phi Beta Kappa, University of Colorado (1987)
- Alpha Omega Alpha, University of Wisconsin (1991)

- Resident Research Award, University of Minnesota (1998)

PROFESSIONAL EDUCATION

- Residency: UCSF Dept of General Surgery (1996) CA
- Internship: UCSF Dept of General Surgery (1992) CA
- Board Certification: General Surgery, American Board of Surgery (1997)
- Board Certification: Colon and Rectal Surgery, American Board of Colon and Rectal Surgery (1999)
- Fellowship: University of Minnesota (1998) MN
- Fellowship, University of Minnesota , Colon and Rectal Surgery (1998)
- Residency, UCSF , General Surgery (1996)
- Medical Education: University of Wisconsin Medical School (1991) WI
- M.D., University of Wisconsin , Medicine (1991)
- B.A., University of Colorado , Molecular Biology (1987)

COMMUNITY AND INTERNATIONAL WORK

- Community Medical Advisory Committee

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Multimodality treatment of rectal cancer

Sphincter preserving procedures for rectal cancer

Laparoscopic colon and rectal surgery

Surgical education

CLINICAL TRIALS

- Early Removal of Urinary Catheters in Patients after Rectal Surgery: A Prospective Study, Not Recruiting
- Phase II Neoadjuvant Chemoradiation and Local Excision for uT2uN0 Rectal Cancer, Not Recruiting
- Phase II Organ Preservation Program Using Short-Course Radiation & FOLFOXIRI in Rectal Cancer, Not Recruiting
- Phase III LifeSeal Kit for Staple Line Sealing in Colorectal and Coloanal Anastomoses, Not Recruiting
- Phase III Randomized Gentamicin-Collagen Sponge for Higher Risk of Surgical Wound Infection, Not Recruiting
- Phase III: 5-FU/ Leucovorin/Oxaliplatin (mFOLFOX6) +/- Bevacizumab in Stage II & III Colon Carcinoma, Not Recruiting
- QOL & Functional Outcomes After Combined Modality Tx for Anal CA: Comparison of Conventional vs IMRT, Not Recruiting

Publications

PUBLICATIONS

- **Immune Modulation by Personalized vs Standard Prehabilitation Program Before Major Surgery**
Cambriel, A., Tsai, A., Sabayev, M., Choisy, B., Hedou, J., Shelton, E., Singh, K., Amar, J., Badea, V., Bruckman, S., Ganio, E., Einhaus, J., Fejaerts, et al
LIPPINCOTT WILLIAMS & WILKINS.2025: 959

- **Phase II trial of organ preservation program using short-course radiation and FOLFOXIRI for rectal cancer (SHORT-FOX): Two-Year primary outcome analysis.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Klebaner, D., Brown, E., Fisher, G. A., Shelton, A., Johnson, T. P., Shaheen, S., Chen, C., Heestand, G., Holden, T., Bien, J., King, D. A., Dawes, A. J., Morris, et al
2025; 207: 110884
- **Advancing Clinical Trial Equity through Integration of Telehealth and Decentralized Treatment.** *JNCI cancer spectrum*
Brown, E., Albert Fisher, G., Shelton, A., Chang, D. T., Pollom, E.
2024
- **Phase II trial of organ preservation program using short-course radiation and FOLFOXIRI for rectal cancer (SHORT-FOX).**
Pollom, E. L., Fisher, G. A., Shelton, A., Johnson, T., Chen, C., Jackson, S., Shaheen, S., Holden, T., Bien, J., King, D., Morris, A. M., Kin, C., Dawes, et al
LIPPINCOTT WILLIAMS & WILKINS.2024
- **GITR and TIGIT immunotherapy provokes divergent multicellular responses in the tumor microenvironment of gastrointestinal cancers.** *Genome medicine*
Sathe, A., Ayala, C., Bai, X., Grimes, S. M., Lee, B., Kin, C., Shelton, A., Poultides, G., Ji, H. P.
2023; 15 (1): 100
- **Barriers and Facilitators of Surgical Prehabilitation Adherence from the Patient Perspective: a Mixed Method Study.** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
Kimura, C., Liu, Y., Crowder, S. E., Arbaugh, C., Mai, U., Shankar, K., Shelton, A., Visser, B., Kin, C.
2023
- **GITR and TIGIT immunotherapy provokes divergent multi-cellular responses in the tumor microenvironment of gastrointestinal cancers.** *bioRxiv : the preprint server for biology*
Sathe, A., Ayala, C., Bai, X., Grimes, S. M., Lee, B., Kin, C., Shelton, A., Poultides, G., Ji, H. P.
2023
- **Association of an Online Home-Based Prehabilitation Program With Outcomes After Colorectal Surgery.** *JAMA surgery*
Kimura, C. S., Bidwell, S., Gurland, B., Morris, A., Shelton, A., Kin, C.
2022
- **Adherence to a Home-Based Prehabilitation Program for Patients Undergoing Colorectal Surgery.** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
Kimura, C., Bidwell, S., Shankar, K., Shelton, E., Shelton, A., Kin, C.
2022
- **Integrated single-cell and plasma proteomic modeling to predict surgical site complications, a prospective cohort study**
Tsai, A. S., Hedou, J., Einhaus, J., Rumer, K., Verdonk, F., Stanley, N., Choisy, B., Ganio, E. A., Bonham, A., Jacobsen, D., Warrington, B., Gao, X., Tingle, et al
LIPPINCOTT WILLIAMS & WILKINS.2022: 1204-1205
- **Phase II trial of organ preservation program using short-course radiation and folfoxiri for rectal cancer (SHORT-FOX)**
Pollom, E. L., Shelton, A., Fisher, G. A., Bien, J., King, D., Johnson, T., Chen, C., Shaheen, S., Chong, C., Vitzthum, L., Kirilcuk, N., Morris, A. M., Kin, et al
LIPPINCOTT WILLIAMS & WILKINS.2022
- **Association of Prehabilitation With Postoperative Opioid Use in Colorectal Surgery: An Observational Cohort Study.** *The Journal of surgical research*
Lee, A., Shelton, E., Bidwell, S., Shankar, K., Ando, K., Gaudilliere, B., Shelton, A., Kin, C.
1800; 273: 226-232
- **Integrated Single-Cell and Plasma Proteomic Modeling to Predict Surgical Site Complications: A Prospective Cohort Study.** *Annals of surgery*
Rumer, K. K., Hedou, J., Tsai, A., Einhaus, J., Verdonk, F., Stanley, N., Choisy, B., Ganio, E., Bonham, A., Jacobsen, D., Warrington, B., Gao, X., Tingle, et al
1800
- **MOTIVATIONS AND BARRIERS TOWARD IMPLEMENTATION OF A RECTAL CANCER SYNOPTIC OPERATIVE REPORT: A PROCESS EVALUATION.** *Diseases of the colon and rectum*

- Bidwell, S., Poles, G., Shelton, A., Staudenmayer, K., Bereknyci Merrell, S., Morris, A. M.
2021
- **Engagement and Adherence with a Web-Based Prehabilitation Program for Patients Awaiting Abdominal Colorectal Surgery.** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
Shelton, E., Barreto, N. B., Bidwell, S., Folk-Tolbert, M., Shelton, A., Trickey, A. W., Kin, C. J.
2021
 - **Impact of policy-based and institutional interventions on postoperative opioid prescribing practices.** *American journal of surgery*
Titan, A., Doyle, A., Pfaff, K., Baiu, I., Lee, A., Graham, L., Shelton, A., Hawn, M.
2021
 - **A Deep Immune Profiling in Inflammatory Bowel Disease Reveals Disordered Immune Cell Frequencies Before and in Response to Major Abdominal Operations**
Rumer, K., Stanley, N., Ganio, E., Tsai, E., Kin, C., Shelton, A. A., Morris, A. M., Angst, M., Aghaeepour, N., Gaudilliere, B.
ELSEVIER SCIENCE INC.2020: S50
 - **Not in the Same Vein: Inflammatory Bowel Disease, Malignancy, and Enterocolic Lymphocytic Phlebitis.** *Digestive diseases and sciences*
Farber, O. N., Weingarden, A., Lee, C., Braxton, D. R., Bingham, D., Scott, G., Fernandez-Becker, N., Goff, D., Shelton, A., Kin, C.
2020
 - **IMMUNE PROFILING TO PREDICT RECOVERY OUTCOMES AFTER SURGERY**
Tsai, E. S., Rumer, K., Wong, K., Warrington, B., Shelton, E., Ganio, E., Verdonk, F., Ando, K., Tingle, M., Folk-Tolbert, M., Shankar, K., Shelton, A., Morris, et al
LIPPINCOTT WILLIAMS & WILKINS.2020: 66–67
 - **Dealing with your first complications: Strategies for anticipation, management, communication, and support** *SEMINARS IN COLON AND RECTAL SURGERY*
Morris, A. M., Shelton, A. A.
2020; 31 (1)
 - **Implementation of a Synoptic Operative Report for Rectal Cancer: A Mixed-Methods Study.** *Diseases of the colon and rectum*
Bidwell, S. S., Merrell, S. B., Poles, G. n., Morris, A. M.
2020; 63 (2): 190–99
 - **Pelvic/Perineal Reconstruction: Time to Consider the Anterolateral Thigh Flap as a First-line Option?** *Plastic and reconstructive surgery. Global open*
Perrault, D. n., Kin, C. n., Wan, D. C., Kirilcuk, N. n., Shelton, A. n., Momeni, A. n.
2020; 8 (4): e2733
 - **Elucidating the fundamental fibrotic processes driving abdominal adhesion formation.** *Nature communications*
Foster, D. S., Marshall, C. D., Gulati, G. S., Chinta, M. S., Nguyen, A. n., Salhotra, A. n., Jones, R. E., Burcham, A. n., Lerbs, T. n., Cui, L. n., King, M. E., Titan, A. L., Ransom, et al
2020; 11 (1): 4061
 - **Oncologic and Perioperative Outcomes of Laparoscopic, Open, and Robotic Approaches for Rectal Cancer Resection: A Multicenter, Propensity Score-Weighted Cohort Study.** *Diseases of the colon and rectum*
Kethman, W. C., Harris, A. H., Morris, A. M., Shelton, A., Kirilcuk, N., Kin, C.
2019
 - **Effect of a Multimodal Prehabilitation Program Prior to Colorectal Surgery on Postoperative Pain and Pain Medication Use**
Lee, A., Shelton, E., Bidwell, S., Shelton, A., Gurland, B., Morris, A. M., Kin, C. J.
ELSEVIER SCIENCE INC.2019: S58–S59
 - **Fragility of Life: Recurrent Intestinal Perforation Due to Vascular Ehlers-Danlos Syndrome** *DIGESTIVE DISEASES AND SCIENCES*
Sceats, L. A., Sukerkar, P. A., Raghavan, S. S., Shandiz, A., Shelton, A., Kin, C.
2019; 64 (8): 2120–23
 - **TB or Not TB: Crohn's Disease, Peritoneal Tuberculosis, or Both?** *DIGESTIVE DISEASES AND SCIENCES*
Miller, M., Kim-Nhien Vu, Zemek, A., Shelton, A., Kin, C.
2019; 64 (6): 1432–35

- **Effects of Colorectal Surgery Classification on Reported Postoperative Surgical Site Infections** *JOURNAL OF SURGICAL RESEARCH*
Kethman, W. C., Shelton, E. A., Kin, C., Morris, A. M., Shelton, A. A.
2019; 236: 340–44
- **Effects of Colorectal Surgery Classification on Reported Postoperative Surgical Site Infections.** *The Journal of surgical research*
Kethman, W. C., Shelton, E. A., Kin, C., Morris, A. M., Shelton, A. A.
2019; 236: 340–44
- **Sigmoid Volvulus.** *JAMA*
Baiu, I., Shelton, A.
2019; 321 (24): 2478
- **Fragility of Life: Recurrent Intestinal Perforation Due to Vascular Ehlers-Danlos Syndrome.** *Digestive diseases and sciences*
Sceats, L. A., Sukerkar, P. A., Raghavan, S. S., Esmaeili Shandiz, A. n., Shelton, A. n., Kin, C. n.
2019
- **TB or Not TB: Crohn's Disease, Peritoneal Tuberculosis, or Both?** *Digestive diseases and sciences*
Miller, M., Vu, K., Zemek, A., Shelton, A., Kin, C.
2018
- **Surgical and molecular characterization of primary and metastatic disease in a neuroendocrine tumor arising in a tailgut cyst** *COLD SPRING HARBOR MOLECULAR CASE STUDIES*
Erdrich, J., Schaberg, K. B., Khodadoust, M. S., Zhou, L., Shelton, A. A., Visser, B. C., Ford, J. M., Alizadeh, A. A., Quake, S. R., Kunz, P. L., Beausang, J. F.
2018; 4 (5)
- **Surgical and molecular characterization of primary and metastatic disease in a neuroendocrine tumor arising in a tailgut cyst.** *Cold Spring Harbor molecular case studies*
Erdrich, J., Schaberg, K., Khodadoust, M. S., Zhou, L., Shelton, A. A., Visser, B. C., Ford, J. M., Alizadeh, A. A., Quake, S. R., Kunz, P. L., Beausang, J. F.
2018
- **Deep Immune Profiling of an Arginine-Enriched Nutritional Intervention in Patients Undergoing Surgery** *JOURNAL OF IMMUNOLOGY*
Aghaeepour, N., Kin, C., Ganio, E. A., Jensen, K. P., Gaudilliere, D. K., Tingle, M., Tsai, A., Lancero, H. L., Choisy, B., McNeil, L. S., Okada, R., Shelton, A. A., Nolan, et al
2017; 199 (6): 2171–80
- **The Prognostic Significance of Pretreatment Hematologic Parameters in Patients Undergoing Resection for Colorectal Cancer** *AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS*
Kozak, M. M., von Eyben, R., Pai, J. S., Anderson, E. M., Welton, M. L., Shelton, A. A., Kin, C., Koong, A. C., Chang, D. T.
2017; 40 (4): 405–12
- **Pulmonary Crohn's Disease** *DIGESTIVE DISEASES AND SCIENCES*
Regalia, K., Shelton, A., Berry, G., Triadafilopoulos, G., Cartwright, C. A.
2017; 62 (1): 64-67
- **Deep Immune Profiling of an Arginine-Enriched Nutritional Intervention in Patients Undergoing Surgery.** *Journal of immunology (Baltimore, Md. : 1950)*
Aghaeepour, N. n., Kin, C. n., Ganio, E. A., Jensen, K. P., Gaudilliere, D. K., Tingle, M. n., Tsai, A. n., Lancero, H. L., Choisy, B. n., McNeil, L. S., Okada, R. n., Shelton, A. A., Nolan, et al
2017
- **Gastrointestinal Mucormycosis Requiring Surgery in Adults with Hematologic Malignant Tumors: Literature Review** *SURGICAL INFECTIONS*
Forrester, J. D., Chandra, V., Shelton, A. A., Weiser, T. G.
2015; 16 (2): 194-202
- **The Prognostic Significance of Pretreatment Hematologic Parameters in Patients Undergoing Resection for Colorectal Cancer.** *American journal of clinical oncology*
Kozak, M. M., von Eyben, R., Pai, J. S., Anderson, E. M., Welton, M. L., Shelton, A. A., Kin, C., Koong, A. C., Chang, D. T.
2015: -?

- **Gastrointestinal Mucormycosis Initially Manifest as Hematochezia from Arterio-Enteric Fistula** *DIGESTIVE DISEASES AND SCIENCES*
Cloyd, J. M., Brown, J., Sinclair, T., Jenks, D., Desai, J., Longacre, T., Chandra, V., Shelton, A.
2014; 59 (12): 2905-2908
- **Assigning a team-based pager for on-call physicians reduces paging errors in a large academic hospital.** *Joint Commission journal on quality and patient safety / Joint Commission Resources*
Shieh, L., Chi, J., Kulik, C., Momeni, A., Shelton, A., DePorte, C., Hopkins, J.
2014; 40 (2): 77-82
- **Outcomes of repeat colonoscopy in patients with polyps referred for surgery without biopsy-proven cancer** *GASTROINTESTINAL ENDOSCOPY*
Friedland, S., Banerjee, S., Kochar, R., Chen, A., Shelton, A.
2014; 79 (1): 101-107
- **Predictors of postoperative urinary retention after colorectal surgery.** *Diseases of the colon & rectum*
Kin, C., Rhoads, K. F., Jalali, M., Shelton, A. A., Welton, M. L.
2013; 56 (6): 738-746
- **Endoscopic management of nonlifting colon polyps.** *Diagnostic and therapeutic endoscopy*
Friedland, S., Shelton, A., Kothari, S., Kochar, R., Chen, A., Banerjee, S.
2013; 2013: 412936-?
- **Clinicopathologic and molecular features of sporadic early-onset colorectal adenocarcinoma: an adenocarcinoma with frequent signet ring cell differentiation, rectal and sigmoid involvement, and adverse morphologic features** *MODERN PATHOLOGY*
Chang, D. T., Pai, R. K., Rybicki, L. A., DiMaio, M. A., Limaye, M., Jayachandran, P., Koong, A. C., Kunz, P. A., Fisher, G. A., Ford, J. M., Welton, M., Shelton, A., Ma, et al
2012; 25 (8): 1128-1139
- **Free transverse rectus abdominis myocutaneous flap reconstruction of a massive lumbosacral defect using superior gluteal artery perforator vessels** *MICROSURGERY*
Gaster, R. S., Bhatt, K. A., Shelton, A. A., Lee, G. K.
2012; 32 (5): 388-392
- **Single-cell dissection of transcriptional heterogeneity in human colon tumors** *NATURE BIOTECHNOLOGY*
Dalerba, P., Kalisky, T., Sahoo, D., Rajendran, P. S., Rothenberg, M. E., Leyrat, A. A., Sim, S., Okamoto, J., Johnston, D. M., Qian, D., Zabala, M., Bueno, J., Neff, et al
2011; 29 (12): 1120-U11
- **Intensity-Modulated Radiation Therapy Versus Conventional Radiation Therapy for Squamous Cell Carcinoma of the Anal Canal** *CANCER*
Bazan, J. G., Hara, W., Hsu, A., Kunz, P. A., Ford, J., Fisher, G. A., Welton, M. L., Shelton, A., Kapp, D. S., Koong, A. C., Goodman, K. A., Chang, D. T.
2011; 117 (15): 3342-3351
- **Fulminant Clostridium difficile Colitis in a Post-Liver Transplant Patient** *DIGESTIVE DISEASES AND SCIENCES*
Lee, M., Shelton, A. A., Concepcion, W. L., Bonham, C. A., Daugherty, T. J.
2010; 55 (9): 2459-2462
- **Pathological response after chemoradiation for T3 rectal cancer.** *Colorectal disease*
Chennupati, S. K., Kamaya, A., Fisher, G. A., Ford, J. M., Kunz, P., Itakura, H., Welton, M. L., Shelton, A., Van Dam, J., Koong, A. C., Chang, D. T.
2010; 12 (7 Online): e24-30
- **Pathological response after chemoradiation for T3 rectal cancer** *COLORECTAL DISEASE*
Chennupati, S. K., Kamaya, A., Fisher, G. A., Ford, J. M., Kunz, P., Itakura, H., Welton, M. L., Shelton, A., Van Dam, J., Koong, A. C., Chang, D. T.
2010; 12 (7): E24-E30
- **Mechanical Bowel Preparation in Intestinal Surgery: A Meta-Analysis and Review of the Literature** *49th Annual Meeting of the Society-for-Surgery-of-the-Alimentary-Tract/Digestive Disease Week*
Pineda, C. E., Shelton, A. A., Hernandez-Boussard, T., Morton, J. M., Welton, M. L.
SPRINGER.2008: 2037-44

- **SIR 2008 annual meeting film panel case: Castleman disease complicated by follicular dendritic cell sarcoma** *33rd Annual Meeting of the Society-of-Interventional-Radiology (SIR)*
Sze, D. Y., Shelton, A. A.
ELSEVIER SCIENCE INC.2008: 1141-44
- **Section 20.3. Laparoscopic Management of Intestinal Endometriosis** *NEZHAT'S OPERATIVE GYNECOLOGIC LAPAROSCOPY AND HYSTEROSCOPY, 3RD EDITION*
Shelton, A. A.
edited by Nezhat, C., Nezhat, F., Nezhat, C.
2008: 529-36
- **Dartos muscle interposition flap for the treatment of rectourethral fistulas** *DISEASES OF THE COLON & RECTUM*
Varma, M. G., Wang, J. Y., Garcia-Aguilar, J., Shelton, A. A., McAninch, J. W., Goldberg, S. M.
2007; 50 (11): 1849-1855
- **Phenotypic characterization of human colorectal cancer stem cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Dalerba, P., Dylla, S. J., Park, I., Liu, R., Wang, X., Cho, R. W., Hoey, T., Gurney, A., Huang, E. H., Simeone, D. M., Shelton, A. A., Parmiani, G., Castelli, et al
2007; 104 (24): 10158-10163
- **Transperineal repair of persistent rectovaginal fistulas using an acellular cadaveric dermal graft (AlloDerm (R))** *DISEASES OF THE COLON & RECTUM*
Shelton, A. A., Welton, M. L.
2006; 49 (9): 1454-1457
- **Sexually transmitted parasitic diseases.** *Clinics in colon and rectal surgery*
Shelton, A. A.
2004; 17 (4): 231-234
- **The pelvic floor in health and disease** *WESTERN JOURNAL OF MEDICINE*
Shelton, A. A., Welton, M. L.
1997; 167 (2): 90-98