

# Stanford

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## 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**

Sally Nielsen - Nurse Coordinator

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### Bio

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#### 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 General Surgery Residency (1996) CA
- Internship: UCSF General Surgery Residency (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

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## 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

- A Phase 1-2 Trial of Cetuximab in Combination With Oxaliplatin, Capecitabine, and Radiation Therapy Followed by Surgery for Locally-advanced Rectal Cancer, Not Recruiting
- A Study of an Antibiotic Implant in General Surgical Subjects at Higher Risk for Surgical Wound Infection, Not Recruiting
- Assessment of Health Related Quality of Life in Patients Treated for Rectal Cancer, Not Recruiting
- Capecitabine, Oxaliplatin, and Radiation Therapy in Treating Patients Who Are Undergoing Surgery for Stage I Rectal Cancer, Not Recruiting
- Early Removal of Urinary Catheters in Patients After Rectal Surgery: a Prospective Study, Not Recruiting
- Effect of Celecoxib on Perioperative Inflammatory Response in Colon Cancer, Not Recruiting
- Efficacy and Safety of LifeSeal™ Kit for Colorectal Staple Line Sealing, Not Recruiting
- Fluorouracil, Leucovorin, and Oxaliplatin With or Without Bevacizumab in Treating Patients Who Have Undergone Surgery for Stage II or Stage III Colon Cancer, Not Recruiting
- Molecular Genetic and Pathological Studies of Anal Tumors, Not Recruiting
- Parastomal Reinforcement With Stratattice, Not Recruiting
- Perfusion CT as a Predictor of Treatment Response in Patients With Rectal Cancer, Not Recruiting
- QOL & Functional Outcomes After Combined Modality Tx for Anal CA: Comparison of Conventional vs IMRT, Not Recruiting
- Rosuvastatin in Treating Patients With Stage I or Stage II Colon Cancer That Was Removed By Surgery, Not Recruiting

## Publications

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### PUBLICATIONS

- **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., Poultsides, 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., Poultsides, 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., Bereknyei 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., Aghaepour, 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., Esmacili 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., 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