

Sonia L. Ramamoorthy
John and Rebecca Moore's Cancer Center
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Employment

Associate Professor of Surgery, 2010-current

Department of Surgery, Division of Surgical Oncology
University of California, San Diego Medical Center

Assistant Professor of Surgery, 2004-2010

Department of Surgery, Division of Surgical Oncology
University of California, San Diego Medical Center

Assistant Professor of Surgery, 2002- 2004

Department of Surgery, Section of Colon and Rectal Surgery
University of California, San Francisco Medical Center

Education

MD, Boston University School of Medicine, June 1996

MS, Boston University School of Medicine, Department of Biomedical Sciences, June 1996

BA, University of California at Berkeley, Department of Genetics, June 1990

Post Graduate Training

CREST Fellowship (clinical research fellowship)

UCSD Medical Center, January 2005- January 2006

Colon and Rectal Surgery Fellowship

Washington University/ Barnes-Jewish Hospital July 2001- July 2002

General Surgery Residency

University of California, San Diego Medical Center June 1996- June 2001

Certification

American Board of Surgery

American Board of Colon and Rectal Surgery

Professional Memberships

American College of Surgeons (ACS): Oncology Group

Professional Memberships cont'd

American Society of Colon and Rectal Surgeons (ASCRS): Young Surgeons Committee, Program Committee, New Technologies (Vice Chair)
Crohn's Colitis Foundation of America (CCFA): Public and Patient Information Committee
MIRA Robotic Society: Board Member
Association of Academic Surgeons (AAS): New Technology Committee
Society for Surgeons of the Alimentary Tract (SSAT)
Society of American Gastrointestinal Endoscopic Surgeons (SAGES): Educational Resources
American College of Surgeons
Association of Women Surgeons
Pacific Coast Surgical Association
American Board of Colon and Rectal Surgery

Awards/Honors

San Diego Magazine "Top Doctors in San Diego"

General Surgery, Colorectal Surgery, 2008, 2009

University of California, San Diego Medical Center, San Diego, CA

Chairman's Award, Department of General Surgery 2001

Resident Teaching Award, UC San Diego Medical School 2001

Golden Flea Award, Best Surgical Consultant, Department of Medicine 1998

Boston University School of Medicine, Boston, MA

Richard J Elkhort, MD Award, Department of General Surgery 1996

Massachusetts Medical Society Academic Scholarship 1995

Community/University Service

US/UK/India Global Healthcare Summit (Surgery Subcommittee), 2010

Medical Risk Management Committee, 2008-Current

Inpatient Tower East Campus Development Project, 2008

Graduate Medical Education, 2005, 2006, 2007, 2008

Peri-Operative Efficiency Committee, 2006

Surgery Billing Committee, 2006

Pharmacy and Therapeutics, 2005

Research/Grants

NIH K12/ University of California, San Diego- 2009/2012

Neoplastic Transformation in Squamous Cell Cancer of the Anus

\$100,000/yr. x 3 years

ASCRS- 2010-2011

ASCRS Limited Project Grant

\$50,000

Research/Grants cont'd

University of California, San Diego- 2009/2010

The Role of JC Virus in Neoplastic Transformation
CFAR/ Moores' Cancer Center # CCT28SR \$40,000.00

University of California, San Diego- 2008-2009

The Inflammatory Response to Anal Cancer
Academic Senate Grant #- \$7500.00

University of California, San Diego-2007/2008

The Physiology of Transgastric Surgery
SAGES/ASGE/Ethicon Endo-Surgery
NOSCAR Research Award \$53,131.00

University of California, San Diego – 2005/2006

The Role of Microsatellite Instability in Invasive Squamous Cell Cancer of the Anus
American Cancer Society
Institutional Research Grant #70-002-\$20,000.00

University of California, San Francisco-2002

Molecular markers of rectal cancer
REAC grant #H123A-\$25,000.00

Presentations/Courses

Moderator/Speaker, UCSD NOTES Surgery Symposium

Annual UCSD Hands-On Endoluminal, Single Site and Notes Surgery Symposium
Robotic Simulation: Validation of the simulator in a cohort of colorectal trainees
San, Diego, CA. 2011

Assistant Director, Robotics Symposium

American Society of Colon and Rectal Surgeons Annual Meeting
Hollywood, FL. 2009, 2010

Co-Chair, Laparoscopic Colon Course

Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting
Phoenix, Arizona, 2009

Speaker, Robotics Symposium

American Society of Colon and Rectal Surgeons Tri-Partite Annual Meeting
Boston, MA 2008

Program Director, Robotics Colorectal Course

UCSD/International Society of University Colorectal Surgeons, 2008

Instructor, Hand Assist Laparoscopic Colon Course

UCLA, 2008

Instructor, UCSD Ethicon Laparoscopic Colon Course

San Diego, CA 2008

Speaker, UCSD Natural Orifice Surgery Postgraduate Course

San Diego, CA 2007, 2008, 2009

Moderator, Endoscopy Session

American Society of Colon and Rectal Surgeons Annual Meeting
St. Louis, MO 2007

Robotics in Colorectal Surgery

Visiting Professor, ACS Springfield Illinois Chapter
Springfield, Ill 2007

Endorectal Ultrasound: In the Treatment of Rectal Cancer

Speaker, Minimal Invasive Rectal Cancer Symposium
San Diego, 2007

Crohn's Colitis Foundation, San Diego Patient Symposium

Speaker, Surgery for IBD
La Costa, 2007

Speaker, American College of Surgeons, Southern California Chapter

Santa Barbara, CA 2006

Forum Health Cancer Symposium

Speaker, Screening for Colon Cancer
Ohio, 2006

Southwestern Surgical Congress

Podium Presentation: Mesh Erosion after Ripstein Repair
San Antonio, 2005

UCSF Surgery Post-Graduate Course

Laparoscopic Colorectal Surgery
Current Concepts: Hemorrhoids
San Francisco, 2003

UCSF Videoscopic Surgery Course

Instructor, Laparoscopic Colorectal Surgery
San Francisco, 2002-2003

Southern California Vascular Conference

Spontaneous Renal Artery Dissection
Santa Barbara, California, 2001

Editorial Reviewer*Editorial Board*

International Journal of Medical Robotics and Computer Assisted Surgery

Ad hoc

Journal of Laparoendoscopic & Advanced Surgical Techniques

Journal of Surgical Research

Diseases of the Colon and Rectum

Digestive Disease Sciences

Surgical Endoscopy

Recent Publications

Mclemore E, **Ramamoorthy SL**. Metastatic Disease in Colon and Rectal Cancer. Mastery of Colon and Rectal Surgery, 2nd edition, 2011.

Prasad L, **Ramamoorthy SL**. Robotics and Right Colon Cancer. Mastery of Colon and Rectal Surgery, 2nd edition, 2011.

Bazzi WM, Wagner O, Stroup SP, Silberstein JL, Belkind N, Katagiri T, Paleari J, Duro A, **Ramamoorthy SL**, Talamini MA, Horgan S, and Derweesh IH. Transrectal Hybrid Natural Orifice Transluminal Endoscopic Surgery NOTES Nephrectomy in a Porcine Model. *Urology* 77(3),2011

Ramamoorthy SL, Devaraj B, Miyai K, Luo L, Liu YT, Boland CR, Goel A, Carethers JM. JC Virus T-antigen expression in anal carcinoma, *Cancer* 2010, accepted for publication

Ramamoorthy S, Liu YT, Luo L, Miyai K, Lu Q, Carethers JM. Detection of multiple human papillomavirus genotypes in anal carcinoma. *Infect Agent Cancer*. 2010 Oct 12;5:17

Dong H, Shim KN, Li JM, Estrema C, Ornelas TA, Nguyen F, Liu S, **Ramamoorthy SL**, Ho S, Carethers JM, Chow JY. Molecular mechanisms underlying Ca²⁺-mediated motility of human pancreatic duct cells. *Am J Physiol Cell Physiol*. 2010 Dec;299(6):C1493-503. Epub 2010 Sep 22

Devaraj B, Lee A, Cabrera BL, Miyai K, Luo L, **Ramamoorthy S**, Keku T, Sandler RS, McGuire KL, Carethers JM. Relationship of EMAS and microsatellite instability among patients with rectal cancer. *J Gastrointest Surg*. 2010 Oct;14(10):1521-8. Epub 2010 Sep 16

Ramamoorthy SL, Lee JK, Mintz Y, Cullen JP, Easter DW, Savu MK, Chock A, Mittal R, Horgan S, Talamini MA. The impact of proton pump inhibitors on intra-peritoneal sepsis. *Surgical Endoscopy* 2010. Jun 24. Epub ahead of print.

Ramamoorthy S. Robotic Assisted Rectal Cancer Surgery in *Seminars in Colon & Rectal Surgery. Robotics in Colorectal Surgery: Volume 20, Issue 4: 185-189. December, 2009.*

Potenza B, Deligencia M, Estigoy B, Faraday E, Snyder A, Angle N, Schwartz A, Chang L, Hackett J, Minokadeh A, Madani M, MacAulay K, **Ramamoorthy S**, Blaner L, James C, Bansal V, Torriani F and Coimbra R. Lessons learned from the institution of the Surgical Care Improvement Project at a teaching medical center. *The American Journal of Surgery*. Volume 198 (6): 881-888. December 2009.

Tran Cao H, Cosman B, Devraj B, **Ramamoorthy S**, Savides T, Horgan S, Talamini M, Savu M. Performance measures of surgeon-performed colonoscopy in a Veterans Affairs medical center. *Surg. Endosc.*, 2009 Oct;23. Epub ahead of print.

Ramamoorthy SL, Fischer LJ, Jacobsen G, Spivack A, Thompson K, Talamini M, Horgan S. Transrectal Endoscopic Retrorectal Access (TERA): A Novel NOTES approach to the peritoneal cavity. *J. Laparoendoscopic Adv Surg Tec A*, 2009 Oct;19. Epub ahead of print

Peterson CY, **Ramamoorthy S**, Andrews B, Horgan S, Talamini M, Chock A. Women's positive perception of transvaginal NOTES surgery. *Surg Endosc*. 2009 Aug;23(8):1770-4.

Ramamoorthy SL, Lee JK, Liu L, Horgan S, Carethers JM, Talamini MA. The Inflammatory Response in Transgastric Surgery: Gastric content leak leads to localized inflammatory response and higher adhesive disease". *Surgical Endoscopy* 2009 Aug 18. Epub ahead of print.

Horgan S, Cullen J, Talamini M, Mintz Y, Ferres A, Jacobsen G, Sandler B, Savides T, **Ramamoorthy S**, et al. Natural orifice surgery: Initial clinical experience. *Surg Endosc.*, 2009 Jul;23(7):1512-8.

Ramamoorthy S, Donohue M, Buck M. Decreased Jun-D and myogenin expression in muscle wasting of human cachexia. *Am J Physiol Endocrinol Metab*. 2009 Aug;297(2):E392-401. Epub 2009 May 26

Horgan S, Mintz Y, Jacobsen GR, Sandler BJ, Cullen JP, Spivack A, Easter DW, Chock A, Savu MK, **Ramamoorthy SL**, Bosia J, Agarwal S, Lukacz E, Whitcomb E, Savides T, Talamini MA. NOTES: Transvaginal cholecystectomy with assisting articulating instruments. *Surg. Endo.*, 2009 Aug;23(8):1900. Epub 2009 May 9.

Bharti A, Weidner N, **Ramamoorthy S**. Chronic Schistosomiasis in a Patient with Rectal Cancer. *Am J Trop Med Hyg* 2009 80: 1-2.

Costantini T, Acosta JA, Hoyt DB, **Ramamoorthy S**. Surgical resident and attending physician attitudes toward glucose control in the surgical patient. Presented at American College of Surgeons So. Calif. Santa Barbara, *Amer. Surg.* 2008 Oct;74(10):993-6.

Mintz Y, Horgan S, Savu MK, Cullen J, Chock A, **Ramamoorthy S**, Easter DW, Talamini MA. Hybrid natural orifice transluminal surgery (NOTES) sleeve gastrectomy: a feasibility study using an animal model. *Surg Endosc.* 2008 Aug;22(8):1798-802. Epub 2008 Apr 25.

Lee J, Ghosh P, Whorter V, Payne M, Olsen R, Krinsky M, **Ramamoorthy S**, Carethers J. Evidence for colorectal sarcomatoid carcinoma arising from tubulovillous adenoma: Tumorigenesis caught in the act. *World J Gastroenterol.* 2008 Jul 21;14(27):4389-94.

Ramamoorthy SL, Luo L, Carethers J. Tobacco smoking and risk of recurrence for squamous cell cancer of the anus. *Cancer Detect Prev.* 2008;32(2):116-20. Epub 2008 Jul 17.

Mintz Y, Horgan S, Cullen J, **Ramamoorthy S**, Chock A, Savu MK, Easter DW, Talamini MA. NOTES: the hybrid technique. *J Laparoendosc Adv Surg Tech A.* 2007 Aug;17(4):402-6.

Moreno J, Takabe K, **Ramamoorthy S**. Stomachache in the rectum. ACCEPTED

Garg J, Bahktar O, **Ramamoorthy SL**. Schistosomal Appendicitis. *Archives of Surgery.* 2007 (5);142:487

Robinson T, **Ramamoorthy S**. Lower Gastrointestinal Bleeding. In: McIntyre RC, Steigmann GV, Eiseman B, ed. *Surgical Decision Making.* Baltimore: Elsevier Saunders, 2004: 226-227.

Ramamoorthy SL, Garcia-Aguilar J. Stapled Hemorrhoidectomy: Con. *Clinics in Colon and Rectal Surgery*, 2003; 16(4) 255-257.

Ramamoorthy SL. Electrical activity of the colon in subjects with constipation due to total colonic inertia: an electrophysiologic study. *Invited Critique.* *Archives of Surgery.* 2003;138(9):1011

Ramamoorthy SL, Hye R. Nonoperative management of spontaneous renal artery dissection. *Annals of Vascular Surgery*, 2002;16(2):157-162

Ramamoorthy SL. Genetic Analysis and Patterns of Inheritance of Multiple Endocrine Neoplasia Type 1: A study of a four generation family. Masters Thesis, Boston University Medical Center, 1996.

Krumpe P, Malani N, **Ramamoorthy SL**, et al. Efficacy of Transdermal Nicotine Administration as an Adjunct to Smoking Cessation in Heavily Nicotine Addicted Smokers. *Proceedings of the American Thoracic Society*, 1989

Other Work

Mareno J Jr, Takabe K, Bakhtar O, **Ramamoorthy S**. Image of the month--quiz case. Heterotopic gastric mucosa. *Arch Surg*. 2008 May;143(5):513-4.

Horgan S, Mintz Y, Jacobsen GR, Sandler BJ, Cullen JP, Spivack A, Easter DW, Chock A, Savu MK, **Ramamoorthy S**, Bosia J, Agarwal S, Lukacz E, Whitcomb E, Savides T, Talamini MA. NOTES: transvaginal cholecystectomy with assisting articulating instruments. *Surg Endosc*. 2009 Aug;23(8):1900.

Ramamoorthy S, Luo L, Luo E, Carethers J. Tobacco Smoking and Risk of Recurrence for Squamous Cell Cancer of the Anus. *Digestive Disease Week* 2007

Dasta J, MD, **Ramamoorthy S**, Patou G, Sinatra R. Bupivacaine extended release liposome injection (DepoFoam® bupivacaine) vs. bupivacaine HCl: A meta-analysis of multimodal trials of doses up to and including 300 mg

Ramamoorthy S, Dasta JF, Sinatra R. Comparison of Immediate-release Bupivacaine vs. EXPAREL(tm) (Bupivacaine Extended-Release Liposome Injection) on Opioid Requirements and Related Adverse Events from Phase 2 and 3 Studies Utilizing Multimodal Analgesia Across Multiple Surgical Models.

Chapters

Ramamoorthy SL. Robotics and Rectal Cancer. *Seminars in Colon and Rectal Surgery*, 2009 in press

Ramamoorthy SL. Robotic Assisted Right Colectomy. *Mastery of Colon and Rectal Surgery Techniques*, 2009 in press

Ramamoorthy SL, Lowy AM. Metastatic Colorectal Cancer. *ASCRS Textbook of Colon and Rectal Surgery*, 2010 in press

Robinson T, **Ramamoorthy SL**. Lower GI bleeding. In: McIntyre RC, Steigmann GV, Eiseman B, ed. *Surgical Decision Making*. Baltimore: Elsevier Saunders, 2004:226-227.

Ramamoorthy SL, Fleshman J. Surgical treatment of rectal cancer. *Hematology/Oncology Clinics of North America*. 2002;16(4):927-946

Media

Discovery Channel- Minimal Invasive Surgery, 2009

Everyday Health, Surgery and Colitis: Why you shouldn't wait too long, live webcast, 2008

Outpatient Surgery Magazine, Is laparoscopic colon surgery making a comeback, 2008

Audio-Digest Foundation, Rectal Prolapse, Critical Care Issues in Colorectal Surgery, 2006

Channel 10- Grey's Anatomy Segment on Women in Surgery, 2005