



JOHN H MARKS, MD, FACS, FASCRS
MARKS COLORECTAL SURGICAL FOUNDATION
MARKS COLORECTAL SURGERY PRACTICE

ACTIVITY REPORT 2022 TO 2023

PRESENTATIONS

NATIONAL, REGIONAL, INTERNATIONAL

25 Presentations

3 Countries (USA, New Zealand, Canada)

COURSE FACULTY, MODERATOR

22 Engagements

4 Countries (USA, Brazil, France, Iceland)

INVITED PRESENTATIONS

11 Presentations

5 Countries (USA, Canada, China, Italy, Korea)

PUBLICATIONS

Manuscripts Published

Marks JH, Yang J., Spitz EM, Salem J, Agarwal S, et al. A prospective phase II clinical trial/IDEAL Stage 2a series of single-port robotic colorectal surgery for abdominal and transanal cases. *Colorectal Dis.* Oct 31 2023; doi:10.1111/codi.16788

Keller DS, Ikner TP, de Paula TR, Saidi H, Schoonyoung H, Marks JH. Single-port robotic right hemicolectomy with intracorporeal anastomosis. *Colorectal Dis.* Jun 08 2023;doi:10.1111/codi.16632

Liu Z, Guan X, Zhang M, et al. International guideline on natural orifice specimen extraction surgery (NOSES) for colorectal cancer (2023 version). *Holistic Integrative Oncology.* 2023;2(9)doi:10.1007/s44178-023-00034-z

Piozzi GN, Khobragade K, Aliyev V, et al. International standardization and optimization group for intersphincteric resection (ISOG-ISR): modified Delphi consensus on anatomy, definition, indication, surgical technique, specimen description and functional outcome [published online ahead of print, 2023 Aug 10]. *Colorectal Dis.* 2023;10.1111/codi.16704. doi:10.1111/codi.16704

Sylla P, Berho M, Sands D, et al. Discordance in TME Specimen Grading in a Prospective Phase II Multicenter Rectal Cancer Trial: Are We Overestimating the Quality of our Resections ? *Ann Surg*. Jul 17 2023;doi:10.1097/SLA.0000000000005948

Sylla P, Sands D, Ricardo A, et al. Multicenter phase II trial of transanal total mesorectal excision for rectal cancer: preliminary results [published online ahead of print, 2023 Sep 12]. *Surg Endosc*. 2023;10.1007/s00464-023-10266-9. doi:10.1007/s00464-023-10266-9

Manuscripts—In editorial review or submission pending

18

IRB-APPROVED STUDIES

Ongoing

1. Feasibility and Safety of Single Port Robotic Surgery in Colorectal Procedures (IRBNetID E-19-3864)
2. Quality of Life and Functional Outcomes after Colorectal Surgery (Minimally Invasive and Cancer Databases) (IRBNetID E-23-5292)
3. Multicenter Phase II Study of Transanal Total Mesorectal Excision (taTME) with Laparoscopic Assistance for Rectal Cancer (IRBNetID E-18-3779 (Closed to accrual))
4. Virtual Incision Robotically Assisted Surgical Device (VI RASD) for Umbrella Surgical Procedures: Minimally Invasive Right and Left Colectomy (IRBNetID E-21-5142)

New (approved)

1. The Impact of Patient, Provider, and Procedural Factors on Outcomes in Colorectal and Anal Cancer: Study of the Current State and Trends over Time (IRBNetID E-22-5257)
2. **Colorectal Cancer Study AND CrohN's Disease study (CANDID)** multi-institutional, international, retrospective, snapshot study coordinated by Cleveland Clinic (IRBNetID E-23-5287)
3. boomIBD clinical trial of Boomerang Medical implantable sacral nerve stimulator for bowel incontinence in inflammatory bowel disease (IRBNetID E-22-5273)
4. The COFFEE Trial (COffee For Function of an Enteroenterostomy Earlier) Trial (IRBNetID E-22-5256)
5. SafeHeal Colovac Colorectal Anastomosis Protection Device Evaluation (SAFE-2) Pivotal Study: A Study to Evaluate the Safety and Effectiveness of the Colovac Colorectal Anastomosis Protection Device Submissions Study Management (IRBNetID E-22-5222)

6. Feasibility Study on the Recruitment of a Prospective Cohort Trial on Robotic versus Transanal Total Mesorectal Excision (IRBNetID E-20-5087)
7. Rectal Cancer Total Neoadjuvant Therapy (TNT) Surgical Collaborative (IRBNetID E-22-5279)
8. Global Snapshot Audit of Fecal Incontinence (FI) (IRBNetID E-22-5280)

In Process

1. Pathophysiology, Mitigation, and a Core Outcomes Set for the Empty Pelvis Syndrome after Pelvic Exenteration: A Delphi-Study by the PelvEx Collaborative

Research Ideas Currently under Consideration

1. **Endogenous ViSion Rectum (EVS)** using autofluorescence as an "optical biopsy" to assess tumor response to therapy
2. The role of doxycycline anti-collagenase activity in the treatment of rectal cancer
3. Restoring a healthy microbiome and gut integrity to enhance recovery from multimodal therapy including pelvic radiation and surgery

CLINICAL LANDMARKS: DR. MARKS

Single-Port Robot Colorectal Cases: 207

Laparoscopic and Robotic Colorectal Resections: Over 3578 cases

NEW INITIATIVES

Single-Port Robot User Group

- Developing a collaborative international data registry (Delphi process)
- Built a gated web-based member area to share resources, build scientific community
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WORKS IN PROGRESS

Legacy Project: Promoting wider adoption of minimally invasive surgical techniques in oncologic surgical care beyond colorectal cancer.

Co-directed preparation of a White Paper describing current status of minimal invasive techniques for cancer management by organ system (accepted for publication in Surgical Endoscopy)

Multidisciplinary International Rectal Cancer Society Rectal Cancer Symposium

Planning next meeting in Spring 2024

EDUCATION

DEVELOPING THE SURGICAL LEADERS OF THE FUTURE

Premedical students

1. **Research Assistant** ~ conducting a survey now to learn about career trajectory following the RA experience
 2. **Administrative Assistant (Research and Education Coordinator)** ~ new position
 3. **Externships** - a new program, 4 students currently waiting to start
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Medical Students

Now offering a research year for medical students

Residents

- Experience in clinical care and rectal cancer management conference
 - Three residents have been co-authors of abstracts or videos presented at national meetings
-

Clinical Fellows

2023-2024 marks the 22nd year of subspecialty training of fully-trained surgeons

A diverse group of surgeons

- 10 women
- 4 practice outside 50 US states (Puerto Rico, Canada, Cuba, Iceland)
- 10 from diverse ethnic backgrounds (Asian, South Asian, Latino, Middle Eastern, African American)

Leaders and Educators

- 5 Department Chairs or Section Chiefs

- 11 Academic Surgeons

Clinical Achievements

- 2 completed 500 robotic colorectal resections in 2023
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Research Fellow

Post-graduate research experience

First 2-year fellowship started this year

Advanced Practice Training

Visiting surgeons/observerships

- Scottish minimally invasive surgeon and winner of a 2023 travel award from ASCRS
- Austrian minimally invasive surgeon

Developing curricula for onsite and web-based programs ("Virtual Fellowship")

- Single-Port Robot for Colorectal Surgical Techniques
- How to Successfully Integrate Clinical Research into Any Practice Setting
- How to Build a Team that Can Support Surgical Innovation
- Complex Rectal Cancer Management—An Interactive Program
-

CONSULTANCY, NEW EQUIPMENT TRIALS*

***OUTSIDE OF FORMAL STUDIES**

Because of our extensive experience with multiple minimally invasive surgical platforms, innovators often ask for our impression and guidance concerning new product development

SurroundScope by 270Surgical (<https://270surgical.com/>)

BUILDING A ROBUST INFRASTRUCTURE FOR RESEARCH AND EDUCATION

- Project management system implemented
- Evaluating media asset management systems
- Building data management expertise and resource
- Increasing physical workspace and also using virtual office tools

PUBLIC RELATIONS, COMMUNICATIONS

- www.markscolorrectal.org (Marks Colorectal Surgical Foundation): 14,000+ unique visitors 2023 year-to-date
- www.markscolorrectal.com (clinical practice, site newly launched)
- LinkedIn presence

BIG VISION LONG-RANGE PLAN

Build a state-of-the-art, internationally-recognized center for innovation and training in minimal access surgery.

LIST OF PRESENTATIONS

PRESENTATIONS

NATIONAL, REGIONAL, INTERNATIONAL

Single Port Robotics: A Welcome Addition for Transanal Surgery. **J. Marks**, Poster Presentation. Tripartite Colorectal Meeting, Auckland, NZ, February 21-24, 2022.

Is Local Excision Sufficient for ypT2 Rectal Cancer After High Dose Chemoradiation or Is Radical Resection Mandatory? **J. Marks**, Poster Presentation. Society for Surgical Oncology Annual Meeting, Dallas, Texas, March 9-12, 2022.

Establishing the Learning Curve for Single-Port Robotic Transanal Minimally Invasive Surgery. **J. Marks**, Podium Presentation. Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting, Denver, Colorado, March 16-19, 2022.

Single-Port Robotic Surgical Platform for Colectomies: A Phase II Clinical Trial. **J. Marks**, Quick Shot Session Podium Presentation. Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting, Denver, Colorado, March 16-19, 2022.

Single Port Robotics: A Welcome Addition for Transanal Surgery. **J. Marks**, e-Poster Presentation. Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting, Denver, Colorado, March 16-19, 2022.

Single Port Robotic Anterior Resection for Complicated Diverticulitis with a Colovesicular Fistula. **J. Marks**, Video Presentation. Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting, Denver, Colorado, March 16-19, 2022.

A Phase II Clinical Trial of Single-Port Robotic (SPr) Colorectal Surgery. **J. Marks**, Podium Presentation. American Society of Colon and Rectal Surgeons Annual Scientific Meeting, Tampa, FL, May 1-4, 2022.

Establishing the Learning Curve of Single-Port Robotic Transanal Total Mesorectal Excision (SP rTaTME) for Rectal Cancer. **J. Marks**, e-Poster Presentation. American Society of Colon and Rectal Surgeons Annual Scientific Meeting, Tampa, FL, May 1-4, 2022.

A Novel Platform for Single Incision Minimally Invasive Colectomy: Single-Port Robotic Anterior Resection. **J. Marks**, e-Poster. Society for Surgery of the Alimentary Tract, San Diego, California, May 21-24, 2022.

Is Sphincter Preservation Feasible in Older Adults with Low Rectal Cancers? Keller DS, Ikner TP, Saidi H, Schoonyoung H, DeNittis AS, Zeger EL, **Marks JM**. Poster Presentation. Society for Surgical Oncology Annual Meeting. March 22-25, 2023. Boston, MA

Perioperative Outcomes for Single-Port Robotic Versus Single- Incision Laparoscopic Surgery: A Comparative Analysis in Colorectal Cancer. Keller DS, Ikner TP, Saidi H, Schoonyoung H, **Marks JM**. Podium Presentation. SAGES Annual Conference 2023. March 28 April 1, 2023. Montreal, Canada.

Comparing Advanced Platforms for Local Excision of Distal Rectal Lesions. Keller DS, Ikner TP, Saidi H, Schoonyoung H, **Marks JM**. Podium Presentation. SAGES Annual Conference 2023. March 28 April 1, 2023. Montreal, Canada.

Single Port Robotic Right colectomy: Standardized Steps and Technique for Mastery of a New Technology. Sun TY, Ikner TP, Kunkel E, Schoonyoung H, Keller DS, **Marks JM**. Podium Presentation. SAGES Annual Conference 2023. March 28 April 1, 2023. Montreal, Canada.

Critical Views of Safety in a Laparoscopic Total Mesorectal Excision. Keller DS, Ikner TP, **Marks JM**. Video Presentation. Podium Presentation. SAGES Annual Conference 2023. March 28 April 1, 2023. Montreal, Canada

Single Port Robotic Left Colectomy: Standardizing Steps with a New Technology. Kunkel E, Keller DS, Sun TY, Ikner TP, Schoonyoung H, **Marks JM**. Podium Presentation. SAGES Annual Conference 2023. March 28 April 1, 2023. Montreal, Canada

Neoadjuvant Chemoradiotherapy with Local Excision for T2 and T3 Rectal Cancers- Moving Towards a Standard of Care. **Marks JH**, Saidi H, Ikner T, Reif De Paula T, Schoonyoung H, Keller DS. Podium Presentation. Digestive Disease Week 64th Annual Meeting. May 6-9, 2023. Chicago, IL.

First Clinical Report of the International Single Port Rectal Cancer Registry. **Marks JM**, Choi GS, Reif de Paula T, Inker TP, Saidi H, Kim JH, Keller DS. Podium Presentation. Digestive Disease Week 64th Annual Meeting. May 6-9, 2023. Chicago, IL.

Stoma Closure Rate and Postoperative Outcomes in Older Adults Undergoing Rectal Cancer Surgery. **Marks JM**, Saidi H, Reif de Paula T, Keller DS. Poster Presentation. Digestive Disease Week 64th Annual Meeting. May 6-9, 2023. Chicago, IL.

Longitudinal Analysis of Local Recurrence and Survival After Transanal Abdominal Transanal Radical Proctosigmoidectomy (TATA) for Low Rectal Cancer. **Marks JM**, Saidi H, Reif de Paula T, Ikner TP, Schoonyoung H, Marks G, Keller DS. Podium Presentation. American Society of Colon and Rectal Surgeons Annual Scientific Meeting. June 3-6, 2023. Seattle, WA

Clinical Assessment of a Miniature Robotically Assisted Surgical Device (RASD) for Right and Left Colectomy. Keller DS, Schoonyoung H, Jobst M, Krier KJ, Inker TP, **Marks JM**. Podium Presentation. American Society of Colon and Rectal Surgeons Annual Scientific Meeting. June 3-6, 2023. Seattle, WA

Use and Impact of Adjuvant Chemotherapy in ypT0N0 Rectal Cancer: A National Cancer Database (NCDB) Study. Reif de Paula T, Keller DS, Schoonyoung H, Zeger E, Denittis A, **Marks JM**. Poster Presentation. American Society of Colon and Rectal Surgeons Annual Scientific Meeting. June 3-6, 2023. Seattle, WA

Single Port Robotic Low Anterior Resection (SP rLAR). Kunkel E, Keller DS, Sun TY, Ikner TP, Schoonyoung H, **Marks JM**. Poster Presentation. American Society of Colon and Rectal Surgeons Annual Scientific Meeting. June 3-6, 2023. Seattle, WA

Longitudinal Analysis of Local Recurrence and Survival After Transanal Abdominal Transanal Radical Proctosigmoidectomy (TATA) for Low Rectal Cancer. Saidi H, Reif de Paula T, Ikner TP, Schoonyoung H, Marks G, Keller DS, **Marks JM**. Poster Presentation. Lankenau Institute for Medical Research. Research Day. June 13, 2023. Wynnewood, PA

COURSE FACULTY, MODERATOR

NATIONAL, INTERNATIONAL

Colorectal Session 2. **J. Marks**, Panel Moderator. Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting, Denver, Colorado, March 16-19, 2022.

Special Case Discussion and Live Surgery Commentary. **J. Marks**, Course Faculty. Robotic Symposium and Live Surgery Workshop. American Society of Colon and Rectal Surgeons Annual Scientific Meeting, Tampa, FL, May 1-4, 2022.

Transanal TME: Is there Still Room for It? **J. Marks**, Podium Presentation. Advanced Course in Colorectal and Transanal Surgery, IRCAD-Barretos, Brazil, April 4-6, 2022.

Right Colectomy Single Port: My Experience. **J. Marks**, Podium Presentation. Advanced Course in Colorectal and Transanal Surgery, IRCAD-Barretos, Brazil, April 4-6, 2022.

Left Colectomy Single Port Robotic. **J. Marks**, Podium Presentation. Advanced Course in Colorectal and Transanal Surgery, IRCAD-Barretos, Brazil, April 4-6, 2022.

Distal Anastomosis: How to Avoid Complications. **J. Marks**, Podium Presentation. Advanced Course in Colorectal and Transanal Surgery, IRCAD-Barretos, Brazil, April 4-6, 2022.

Theoretical Session: Colorectal Surgery. TaTME-SP Platform: Is It a New Solution? **J. Marks**, Podium Presentation. Advanced Course in Colorectal and Transanal Surgery, IRCAD-Barretos, Brazil, April 4-6, 2022.

Single Port Robotic Left Colectomy Using DaVinci SP. **J. Marks**, Podium Presentation, IRCAD Colorectal Surgery Intensive Course, IRCAD, Strasbourg, France, June 6-11, 2022.

Transanal Robotic Surgery Using DaVinci SP: Is the Future of Rectal Surgery No Scar? **J. Marks**, Podium Presentation, IRCAD Colorectal Surgery Intensive Course, IRCAD, Strasbourg, France, June 6-11, 2022.

The Next Frontier in Robotic Surgery: DaVinci Single Port Left Colectomy. **J. Marks**, Podium Presentation, IRCAD Colorectal Surgery Intensive Course, IRCAD, Strasbourg, France, June 6-11, 2022.

DaVinci Single Port for Transanal, Intraluminal, and Transluminal Procedures. **J. Marks**, Podium Presentation, IRCAD Colorectal Surgery Intensive Course, IRCAD, Strasbourg, France, June 6-11, 2022.

The Recurrent and Locally Advanced Rectal Cancer. **J. Marks**, Podium Presentation. Nordic Colorectal Course, Reykjavik, Iceland, June 16-17, 2022.

The Benefits of Laparoscopy and Robotics. **J. Marks**, Podium Presentation. Nordic Colorectal Course, Reykjavik, Iceland, June 16-17, 2022.

DaVinci Single Port Robot for Transabdominal and Natural Orifice Colorectal Surgery. **J. Marks**, Podium Presentation. Laparoscopic and Transanal Super Course, IRCAD, Strasbourg, France, November 5, 2022.

DaVinci Single Port Right and Left Colectomy. Transanal and Robotic Colorectal Surgery. IRCAD Strasbourg. February 15-17, 2023. Strasbourg, France,

DaVinci Single Port for Transanal Endoscopic Microsurgery. Advanced Flexible Operative Endoscopy. IRCAD Strasbourg. February 15-17, 2023. Strasbourg, France,

Multimodal Treatments, New Technologies, Interactive Discussion. IRCAD Strasbourg. February 15-17, 2023. Strasbourg, France

SP Right Colectomy using Da Vinci. IRCAD Strasbourg. May 30 June 3, 2023. Strasbourg, France

Single Port Left Colectomy using Da Vinci. IRCAD Strasbourg. May 30 June 3, 2023. Strasbourg, France

Transanal robotic surgery using Da Vinci: is the future of rectal surgery no scar. IRCAD Strasbourg. May 30 June 3, 2023. Strasbourg, France

The next frontier in robotic surgery: Da Vinci single port for right and left colectomy intersphincteric resection for rectal cancer: where are we in 2023? IRCAD Strasbourg. May 30 June 3, 2023. Strasbourg, France

Da Vinci single port robot for endoluminal and transluminal rectal surgery. IRCAD Strasbourg. May 30 June 3, 2023. Strasbourg, France

INVITED PRESENTATIONS

NATIONAL, INTERNATIONAL

Single Site Colorectal Surgery. **J. Marks**, Presenter. Colorectal Robotic Surgical Association Webinar, March 9, 2022.

Robotic Transanal Total Mesorectal Excision. **J. Marks**, Podium Presentation. Korean Association of Robotic Surgeons, Seoul, Republic of Korea, May 13-14, 2022.

Robotic Transanal TME: SP and Other Platforms. **J. Marks**, Podium Presentation. Society of Robotic Surgeons Annual Meeting, Lake Buena Vista, Florida, Jun 30-Jul 3, 2022.

SP Transanal Surgery: taTME and TAMIS. **J. Marks**, Podium Presentation. Asian Robotic Camp for Colorectal Surgeons, Daegu, Korean Republic, October 3, 2022.

How to Obtain Long-Term Local Recurrence-Free Survival During Intersphincteric Resection. **J. Marks**, Podium Presentation. Asian Robotic Camp for Colorectal Surgeons, Daegu, Korean Republic, October 3, 2022.

Salvage Surgery for Regrowth: Transanal Endoscopic Microsurgery Local Excision Versus Total Mesorectal Excision. **J. Marks**, Podium Presentation. Non-Operative Management of Rectal Cancer, Montreal, Canada, October 13-15, 2022.

Endoluminal Surgery: Rectal Cancer. A Look to the Past with a View to the Future. **J. Marks**, Podium Presentation. Chinese Society of Rectal Cancer 7th Annual Meeting, December 16, 2022.

Longitudinal Analysis of Local Recurrence and Survival After Transanal Abdominal Radical Proctosigmoidectomy (TATA) for Local Rectal Cancer. Saidi H, Marks E, Schoonyoung H, Keller DS, Marks G, **Marks JM**. Women in Surgery Conference. February 24-25, 2023. Clearwater, Florida

Women In Surgery Career Symposium 2023 Ambassador. Women in Surgery Conference. February 24-25, 2023. Clearwater, Florida

Grit and Grace. Women in Surgery Conference. February 24-25, 2023. Clearwater, Florida

Additive Potentials of Single Port Robotic. Milan Colorectal Surgery Conference. May 25-26, 2023. Milan, Italy