

2019 2ND ANNUAL REPORT CARD



#COLORECTALSURGERY

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2019 WAS MARKED BY LARGE GROWTH



As we look towards the year ahead, we pause briefly to reflect upon the previous one. 2019 was a year marked by substantial growth for our practice, with **the number of office staff quadrupling** to meet growth in our patient volume, **which is up clinically and surgically by nearly 320%**.

We are also pleased to announce that **Elisa Bianchi, MD** and **Annamarie Kondek, PA-C** have joined the division of colorectal surgery, **effectively doubling the number of healthcare providers** as our practice continues to grow.

In 2019, we also expanded to Oviedo, FL opening a new office there, with the goal of providing patients more direct access to colorectal surgery treatment from both a clinical and surgical standpoint. Dr. Elisa Bianchi is, to our knowledge, **the first and only colorectal surgeon to practice in the city of Oviedo!**

In 2020, we plan to grow our practice further by **expanding to Lake Nona, UCF**, where we will further expand our alliance with the UCF College of Medicine. Our mantra remains to provide clinical excellence in the delivery of colorectal surgery, while fostering a program based upon teaching, education, and research. We want to do our best to reshape and modernize colorectal surgery in Orlando and neighboring cities.

Wishing everyone the very best in 2020!



Sam Atallah, MD

atallah@post.harvard.edu



WHO WE ARE

@CRSORLANDO

Sergio W. Larach, MD, FACS, FASCRS @larachsergio

- ❖ Associate Professor of Surgery, UCF College of Medicine
- ❖ Associate Professor of Surgery, Florida State University
- ❖ Pioneered Laparoscopic Colorectal Surgery
- ❖ Pioneered TAMIS

Elisa Bianchi, MD @elisa_ebianchi

- ❖ Medical Degree: University of Illinois College of Med '13
- ❖ General Surgery Residency: Loma Linda University '18
- ❖ Colorectal Surgery Fellowship: Northwell Health '19
- ❖ Board Certified General Surgery; Board Eligible Colorectal Surgery

Annamarie Kondek, PA-C @kondekannamarie

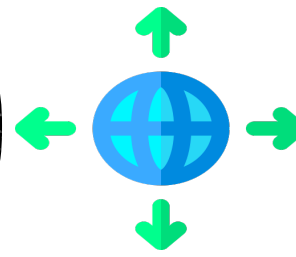
- NOVA Southeastern University 2019 Graduate

Sam B. Atallah, MD, FACS, FASCRS @samatallahmd

- ❖ Professor of Surgery, UCF College of Medicine
- ❖ Director, Colorectal Surgery, Endo-Surgical Center of Florida
- ❖ Director, Colorectal Surgery, Oviedo Medical Center
- ❖ Previous Chair, Dept. Colorectal Surgery, Florida Hospital (2015-2018)
- ❖ Pioneered TAMIS



PRACTICE MILESTONES FOR 2019



- Addition of Colorectal Surgeon, **Elisa Bianchi, MD** to meet growth demands
- Colorectal surgery office **expansion to Oviedo, FL**
- Addition of physician midlevel extender – **Annamarie Kondek, PA**
- Relocation and **expansion of Dean Road (main) Office**
- **Addition of Infusion Center**
- Growth of GI partners and group with the addition of experienced gastroenterologist, **Dr. Moin Kola**
- Expansion of GI partner, **Dr. Basher Atiq** to Kissimmee, FL
- Expansion of our central campus by three additional buildings
- Launch of our **NEW website!** *OrlandoColon.com*



Elisa Bianchi, MD



Annamarie Kondek, PA

ORLANDOCOLON.COM

OUR INNOVATIONS (1)



❖ Among the 1st to pioneer laparoscopic colorectal cancer surgery

- ❖ *Reference:* Fleshman JW, Nelson H, Peters WR, Kim HC, **Larach S**, Boorse RR, Ambroze W, Leggett P, Bleday R, Stryker S, Christenson B. **Early results of laparoscopic surgery for colorectal cancer.** Diseases of the Colon & Rectum. 1996 Oct 1;39(10):S53-8.
- ❖ *Reference:* Lord SA, **Larach SW**, Ferrara A, Williamson PR, Lago CP, Lube MW. **Laparoscopic resections for colorectal carcinoma.** Diseases of the colon & rectum. 1996 Feb 1;39(2):148-54.
- ❖ *Reference:* **Larach SW**, Patankar SK, Ferrara A, Williamson PR, Perozo SE, Lord AS. **Complications of laparoscopic colorectal surgery.** Diseases of the colon & rectum. 1997 May 1;40(5):592-6.

❖ Pioneered laparoscopy for APR and Hartmann's Procedure

- ❖ *Reference:* **Larach SW**, Salomon MC, Williamson PR, Goldstein E. **Laparoscopic assisted abdominoperineal resection.** Surgical laparoscopy & endoscopy. 1993 Apr;3(2):115-8.
- ❖ *Reference:* **Larach SW**, Hellinger MD. **The evolving role of laparoscopic technique in the performance of Hartmann's procedure.** Surgical Oncology Clinics of North America. 1994 Oct 1;3(4):717-30.



OUR INNOVATIONS (2)



❖ **Pioneered TAMIS (Transanal Minimally Invasive Surgery)**

- ❖ **Reference: Atallah S, Albert M, Larach S. Transanal minimally invasive surgery: a giant leap forward.** Surg Endosc. 2010 Sep;24(9):2200-5. doi: 10.1007/s00464-010-0927-z. Epub 2010 Feb 21

❖ **Pioneered Robotic TAMIS**

- ❖ **Reference: Atallah SB, Albert MR, deBeche-Adams TH, Larach SW. Robotic TransAnal Minimally Invasive Surgery in a cadaveric model.** Tech Coloproctol. 2011 Dec;15(4):461-4. doi: 10.1007/s10151-011-0762-9. Epub 2011 Sep 28.
- ❖ **Reference: Atallah S, Parra-Davila E, DeBeche-Adams T, Albert M, Larach S. Excision of a rectal neoplasm using robotic transanal surgery (RTS): a description of the technique.** Tech Coloproctol. 2012 Oct;16(5):389-92. doi: 10.1007/s10151-012-0833-6. Epub 2012 May 15.

❖ **Early Pioneer of taTME (1st series from USA & 1st description of taTME using TAMIS)**

- ❖ **Reference: Atallah S, Albert M, DeBeche-Adams T, Nassif G, Polavarapu H, Larach S. Transanal minimally invasive surgery for total mesorectal excision (TAMIS-TME): a stepwise description of the surgical technique with video demonstration.** Tech Coloproctol. 2013 Jun;17(3):321-5.
- ❖ **Reference: Atallah S, Martin-Perez B, Albert M, deBeche-Adams T, Nassif G, Hunter L, Larach S. Transanal minimally invasive surgery for total mesorectal excision (TAMIS-TME): results and experience with the first 20 patients undergoing curative-intent rectal cancer surgery at a single institution.** Tech Coloproctol. 2014 May;18(5):473-80. doi: 10.1007/s10151-013-1095-7



OUR INNOVATIONS (3)



❖ Pioneered Robotic taTME

- ❖ **Reference: Atallah S, Nassif G, Polavarapu H, deBeche-Adams T, Ouyang J, Albert M, Larach S. Robotic-assisted transanal surgery for total mesorectal excision (RATS-TME): a description of a novel surgical approach with video demonstration.** Tech Coloproctol. 2013 Aug;17(4):441-7. doi: 10.1007/s10151-013-1039-2.
- ❖ **Reference: . Atallah S, Martin-Perez B, Pinan J, Quinteros F, Schoonyoung H, Albert M, Larach S. Robotic transanal total mesorectal excision: a pilot study** Tech Coloproctol. 2014 Nov;18(11):1047-53. doi: 10.1007/s10151-014-1181-5. Epub 2014 Jun 24.

❖ First to describe taTME for benign disease (IBD)

- ❖ **Reference: Atallah S, Larach S, deBeche-Adams T, Albert M. Transanal minimally invasive surgery (TAMIS): a technique that can be used for retrograde proctectomy** Dis Colon Rectum 2013 Jul;56(7):931.

❖ Pioneered Robotic Direct Target NOTES/1st in Florida to Use Flexible Robot

- ❖ **Reference: Atallah S, Hodges A, Larach SW. Direct target NOTES: prospective applications for next generation robotic platforms.** Tech Coloproctol. 2018 May;22(5):363-371. doi: 10.1007/s10151-018-1788-z. Epub 2018 May
- ❖ **Reference: Atallah S Assessment of a flexible robotic system for endoluminal applications and transanal total mesorectal excision (taTME): Could this be the solution we have been searching for?** Tech Coloproctol. 2017 Oct;21(10):809-814. doi: 10.1007/s10151-017-1697-6. Epub 2017 Oct 24.



OUR INNOVATIONS (4)



❖Pioneered Navigation for Rectal Cancer Surgery

❖*Reference: Atallah S, Nassif G, Larach S. Stereotactic navigation for TAMIS-TME: opening the gateway to frameless, image-guided abdominal and pelvic surgery Surg Endosc. 2015 Jan;29(1):207-11. doi: 10.1007/s00464-014-3655-y.*

❖*Reference: Atallah S, Martin-Perez B, Larach S. Image-guided real-time navigation for transanal total mesorectal excision: a pilot study. Tech Coloproctol. 2015 Nov;19(11):679-84. doi: 10.1007/s10151-015-1329-y. Epub 2015 Jul 9.*

❖Pioneered Robotic Navigation

❖*Reference: Atallah S, Zenoni S, Kelly J, Tilahun Y, Monson J. A blueprint for robotic navigation: pre-clinical simulation for transanal total mesorectal excision (taTME). Tech Coloproctol. 2016 Sep;20(9):653-4. doi: 10.1007/s10151-016-1511-x. Epub 2016 Aug*

❖*Reference: Atallah S, Parra-Davila E, Melani AGF, Romagnolo LG, Larach SW, Marescaux J 17. Robotic-assisted stereotactic real-time navigation: initial clinical experience and feasibility for rectal cancer surgery. Tech Coloproctol. 2019 Jan;23(1):53-63. doi: 10.1007/s10151-018-1914-y. Epub 2019 Jan*

❖Pioneered 2-Field Robotic Surgery with New, Modular Robotic Surgical System

❖*Reference: Atallah S, Parra-Davila E, Melani AGF Assessment of the Versius surgical robotic system for dual-field synchronous transanal total mesorectal excision (taTME) in a preclinical model: will tomorrow's surgical robots promise newfound options? Tech Coloproctol. 2019 May;23(5):471-477. doi: 10.1007/s10151-019-01992-1. Epub 2019 May 8.*



OUR INNOVATIONS (5)



❖ Pioneered VAMIS (Vaginal Access Minimally Invasive Surgery) for NOTES Hysterectomy

- ❖ *Reference:* **Atallah S**, Martin-Perez B, Albert M, Schoonyoung H, Quinteros F, Hunter L, **Larach S**. **Vaginal Access Minimally Invasive Surgery (VAMIS): A New Approach to Hysterectomy**. *Surg Innov*. 2015 Aug;22(4):344-7. doi: 10.1177/1553350614560273. Epub 2014 Nov 2.
- ❖ *Reference:* **Atallah S**, Martin-Perez B, Schoonyoung H, Albert M, Hunter L, Quinteros F, Larach S. **Vaginal access minimally invasive surgery: a new approach to hysterectomy**. *Journal of Minimally Invasive Gynecology*. 2014 Nov 1;21(6):S116

❖ Pioneered Infrared Lighted Urethral Stenting

- ❖ *Reference:* **Atallah S**, Martin-Perez B, Drake J, Stotland P, Ashamalla S, Albert M. **The use of a lighted stent as a method for identifying the urethra in male patients undergoing transanal total mesorectal excision: a video demonstration**. *Tech Coloproctol*. 2015 Jun;19(6):375. doi: 10.1007/s10151-015-1297-2. Epub 2015 Mar 28.
- ❖ *Reference:* **Atallah S**, Mabardy A, Volpato AP, Chin T, Sneider J, Monson J **Surgery beyond the visible light spectrum: theoretical and applied methods for localization of the male urethra during transanal total mesorectal excision**. *Tech Coloproctol*. 2017 Jun;21(6):413-424. doi: 10.1007/s10151-017-1641-9. Epub 2017 Jun 6.

❖ Developed the Laparoscopic Technique of an “Incisionless Stoma”

- ❖ *Reference:* **Atallah S**, Albert M, **Larach S** **Technique for constructing an incisionless laparoscopic stoma**. *Tech Coloproctol*. 2011 Sep;15(3):345-7. doi: 10.1007/s10151-011-0698-0. Epub 2011 Jun



2019

2019

1ST ROBOTIC DUAL FIELD SURGERY 1ST ROBOTIC NAVIGATION IN A HUMAN



**IN 2019, WE PUBLISHED
11 PAPERS, 6 BOOK CHAPTERS, AND A BOOK**



11 SCIENTIFIC PAPERS PUBLISHED IN 2019



Atallah S, Parra-Davila E, Melani AGF. Tech Coloproctol. Assessment of the Versius surgical robotic system for dual-field synchronous transanal total mesorectal excision (taTME) in a preclinical model: will tomorrow's surgical robots promise newfound options? 2019 May 8. doi: 10.1007/s10151-019-01992-1.

Shuck RL, Larach SW, Atallah S. Robotic TAMIS for local excision of ultra-distal neoplasia. Tech Coloproctol. 2019 Apr;23(4):395. doi: 10.1007/s10151-019-01975-2. Epub 2019 Apr 15.

Atallah S, Larach SW. When One Patient's Cancer Specimen Becomes Accidentally Swapped With Another's Specimen. J Patient Saf. 2019 Apr 18. doi: 10.1097/PTS.0000000000000605. [Epub ahead of print]

Atallah S, Dakermantji M, Larach SW. A new approach to rectal prolapse repair - perineal proctectomy with transanal minimally invasive surgery rectopexy and mesh fixation - a video vignette. Colorectal Dis. 2019 Mar 23. doi: 10.1111/codi.14620. [Epub ahead of print]

De Freitas D, Althoff A, Larach S, Atallah S Robotic transanal minimally invasive surgery for local repair of acquired rectovaginal and rectourethral fistulas - a video vignette. Colorectal Dis. 2019 Mar 23. doi: 10.1111/codi.14619. [Epub ahead of print] .



11 SCIENTIFIC PAPERS PUBLISHED IN 2019



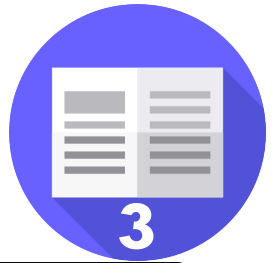
Atallah S, Parra-Davila E, Melani AGF, Romagnolo LG, Larach SW, Marescaux J. Robotic-assisted stereotactic real-time navigation: initial clinical experience and feasibility for rectal cancer surgery. Tech Coloproctol. 2019 Jan 17. doi: 10.1007/s10151-018-1914-y.

Roodbeen SX, de Lacy FB, van Dieren S, Penna M, Ris F, Moran B, Tekkis P, Bemelman WA, Hompes R; **International TaTME Registry Collaborative, Atallah S. Predictive Factors and Risk Model for Positive Circumferential Resection Margin Rate After Transanal Total Mesorectal Excision in 2653 Patients With Rectal Cancer.** Ann Surg. 2019 Nov;270(5):884-891. doi: 10.1097/SLA.0000000000003516.

Atallah S, Sylla P, Wexner SD. Norway versus The Netherlands: will taTME stand the test of time? Tech Coloproctol. 2019 Oct 10. doi: 10.1007/s10151-019-02097-5. [Epub ahead of print]



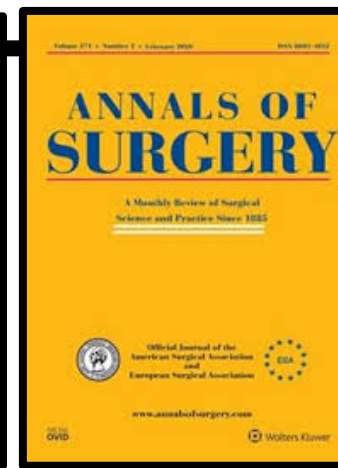
11 SCIENTIFIC PAPERS PUBLISHED IN 2019



Sylla P, Knol JJ, D'Andrea AP, Perez RO, **Atallah SB**, Penna M, Hompes R, Wolthuis A, Rouanet P, Fingerhut A; International taTME Urethral Injury Collaborative. **Urethral Injury and Other Urologic Injuries During Transanal Total Mesorectal Excision: An International Collaborative Study.** Ann Surg. 2019 Sep 17. doi: 10.1097/SLA.0000000000003597.

Siegel A, Friedman J, Oldham A, Thurber C, **Larach S, Atallah S.** **Fluoroscopic-guided laparoscopic ileocolic resection with retrieval of retained (PillCam®) wireless capsule endoscope.** Tech Coloproctol. 2019 Sep;23(9):929-930. doi: 10.1007/s10151-019-02062-2. Epub 2019 Aug 22.

Atallah S, Oldham A, Kondek A, Larach S. **Robotic excision of a colonic neoplasm with ICG as a tumor localizer and colonoscopic assistance.** Tech Coloproctol. 2019 Jun 26. doi: 10.1007/s10151-019-02032-8.



6 BOOK CHAPTERS PUBLISHED IN 2019



- **Atallah S, Buchs N, Soen-Hahn Kim** Chapter 16, “**The Evolution of Robotic TAMIS**” Transanal Minimally Invasive Surgery (TAMIS) & Transanal Total Mesorectal Excision (taTME). Publisher: Springer Nature, 2019
- **Atallah S** and Rullier E, Chapter 28, “**Strategies for Ultralow-Lying Rectal Cancer**” Transanal Minimally Invasive Surgery (TAMIS) & Transanal Total Mesorectal Excision (taTME). Publisher: Springer Nature, 2019
- **Atallah S** and Vela I, Chapter 31 “**How to Avoid Urethral Injury in Males**” Transanal Minimally Invasive Surgery (TAMIS) & Transanal Total Mesorectal Excision (taTME). Publisher: Springer Nature, 2019
- Koedam T, Tuynman J, **Atallah S**, Sietes C, Chapter 37 “**Intraoperative Morbidity of taTME**” Transanal Minimally Invasive Surgery (TAMIS) & Transanal Total Mesorectal Excision (taTME). Publisher: Springer Nature, 2019
- **Atallah S**, Wolthuis AM, D’Hoore A, Chapter 33, “**Operative Vectors, Anatomic Distortion, and the Inherent Effects of Insufflation**” Transanal Minimally Invasive Surgery (TAMIS) & Transanal Total Mesorectal Excision (taTME). Publisher: Springer Nature, 2019
- **Larach S.W.**, Martín-Pérez B. (2019) **Historical Perspectives and Rationale for Development.** In: **Atallah S. (eds)** Transanal Minimally Invasive Surgery (TAMIS) and Transanal Total Mesorectal Excision (taTME). Springer, Cham



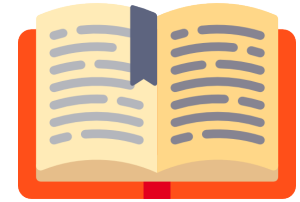
BOOK PUBLISHED IN 2019

Transanal Minimally Invasive Surgery (TAMIS) and Transanal Total Mesorectal Excision (taTME)

Sam Atallah
Editor

 Springer

- 49 Chapters
- 348 color illustrations
- 521 Pages
- First and only book on TAMIS & taTME
- Over 100 authors worldwide
- Over 15,000 copies downloaded 2019



21 PRESENTATIONS IN 2019



21 PRESENTATIONS IN 2019



- **Sam Atallah:** Invited Professor and Speaker, “**Learning Curve in Robotic Colorectal Surgery – Academic Programs in Colorectal Surgery: How to incorporate Robotic Technology**”; “**Robotic Simulation and Navigation in Colorectal Surgery**”; “**Robotic TAMIS, Critical Vision**”. 1st AMCIR, SRS-LATAM Congress, January 30-31st, 2019, Mexico City, Mexico.
- **Sam Atallah:** Keynote Lecture, 12th Annual UCF Medical School Admissions Symposium, February 16, 2019. UCF-College of Medicine, Lake Nona, FL.
- **Sam Atallah:** Invited Professor and Speaker, “**Transanal TME**”, “**Surgical Case Video: taTME**”, Medtronic Symposium, February 22, 2019, Endo Dubai, Dubai, U.A.E.
- **Sam Atallah:** Invited Professor and Speaker, “**Is TES the future of rectal surgery?**”, Rectal Minimally Invasive Surgery Sessions, February 22, 2019 Endo Dubai, Dubai, U.A.E.
- **Elisa Bianchi:** Podium Presentation: **An Analysis of Operating Room Time and Efficiency for Robotic Surgery.** E. Bianchi, D. Keller, E. Raskin, SAGES Baltimore, MD, April 3rd-6th, 2019



21 PRESENTATIONS IN 2019



- **Sam Atallah:** Invited Faculty and Speaker “**Robotics for Colon Surgery**” & “**Transanal Minimally Invasive Surgery (TAMIS) and Transanal Total Mesorectal Excision**”, Disruptive Surgical Technology Summit, Houston, TX, March 2nd – 4th, 2019.
- **Sam Atallah:** Invited Speaker, “**What’s New in Endoluminal Robotic Surgery**”, SAGES 2019, Baltimore, MD, April 6th, 2019.
- **Sam Atallah:** Scientific Session Moderator, Endocrine Videos, SAGES 2019, Baltimore, MD, April 5th, 2019.
- **Sam Atallah:** Invited Professor, UT-Houston McGovern Medical School, Frank G. Moody Grand Rounds Lecture, “**A Decade of TAMIS**” Houston, Texas, April 25th, 2019
- **Elisa Bianchi:** Poster Presentation - **Negative Pressure Wound Therapy is Beneficial in the Treatment of Pilonidal Disease** E. Bianchi, T. Adegboyega, S. Shih, C. Zhang, D. Rivadeneira Huntington Hospital-Northwell Health SAGES Baltimore, MD, April 3rd-6th, 2019



21 PRESENTATIONS IN 2019



3

- **Sam Atallah:** Invited Faculty and Guest Speaker, IRCAD Latin America, Advanced Course in Colorectal Surgery, “Single Port Robotics for Rectal Cancer”, “**Tips to Avoiding Wrong Planes in taTME**”, “**Navigation for Pelvic Surgery**”, “**Cloud Robotics**”. Barretos, Brazil, September 12th – 14th 2019.
- **Sam Atallah:** Invited Guest Speaker, New York Society of Colon & Rectal Surgeons, “**TAMIS and taTME: Looking Back and Moving Forward**” The Penn Club, New York City, NY, September 19th, 2019.
- **Sam Atallah:** Invited Surgeon for Live Colorectal Surgery Case Demonstrations, with Keynote Lecture: “**From TAMIS to taTME, a decade of evolution**” The Kuwait Health Ministry and Government Hospital, Kuwait City, Kuwait, October 12th – 15th, 2019.
- **Sam Atallah:** Invited Faculty and Speaker, American College of Surgeons Clinical Congress, “**Anatomical Considerations for taTME**” Moscone Center, San Francisco, CA, October 27th, 2019.
- **Sam Atallah:** Invited Speaker, “**Robotic Transanal Navigation**” Clinical Robotic Surgery Association (CRSA), Duke University, Durham, North Carolina, November 2nd, 2019.



21 PRESENTATIONS IN 2019



4

- **Sam Atallah:** Invited Professor, taTME Training Lab Instructor, Multidisciplinary International Rectal Cancer Society (MIRCS), Lankenau Medical Center, Philadelphia, PA , May 1-4, 2019.
- **Sam Atallah:** Invited Professor and Guest Lecturer, XIV Jornada Internacionales de Coloproctología, Buenos Aires, Argentina, June 20th – 21st 2019.
- **Sam Atallah:** Invited Speaker, Society of Robotic Surgeons (SRS) Annual Meeting, Presentations: “Navigation in Rectal Cancer Surgery, and “**Robotic TAMIS, Robotic taTME**” Orlando, Florida, June 22nd, 2019.
- **Sam Atallah:** Invited Speaker and Guest Lecturer, “**Transanal Robotics**”, CRSA – European Chapter, June 28th, 2019, Grosseto, Italy.
- **Sam Atallah:** Conference Chair, 14th International NOSCAR® Summit – **Endoscopic Surgery: A looking glass beyond 2020**, ASGE IT&T Center, Downers Grove, IL July 11th – 13th, 2019.
- **Sam Atallah:** Invited Speaker, “**Robotic Transanal Surgery**” and “**Navigation for Rectal Cancer Surgery**” LXV Congreso Internacional De Coloproctalgia, Oaxaca, Mexico, August 17th, 2019.



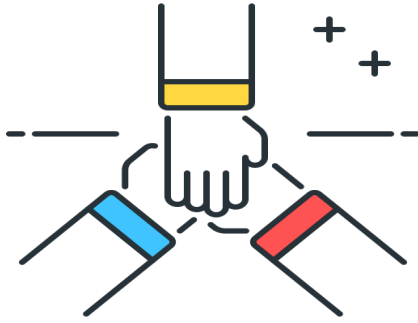
2019 EDUCATION

- **Teaching and Training Students**
 - 7 PA Students – NOVA Southeastern University
 - 3 Medical Students – UCF College of Medicine
 - 5 Undergraduate Research Fellows
- **Visiting International Colorectal Surgery Fellows**
 - Said Kural
 - Francisco Cabral
 - Maya Bjorn

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2019 COLLABORATIVE RESEARCH PROJECTS



- **REACCT Collaborative** – Ongoing Multi-Center Study. The REACCT Collaborative was established to provide large volume data from specialist units around the globe on patients diagnosed with early age CRC. The study is based at St. Vincent's Hospital in Dublin, Ireland

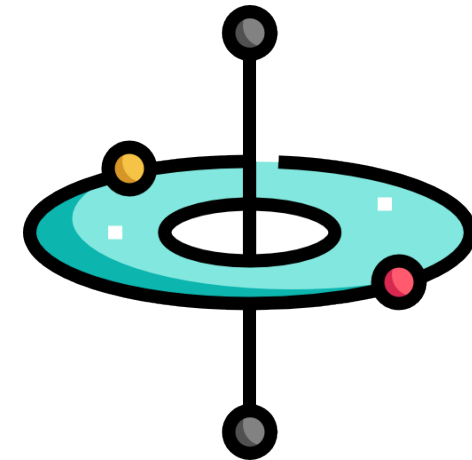
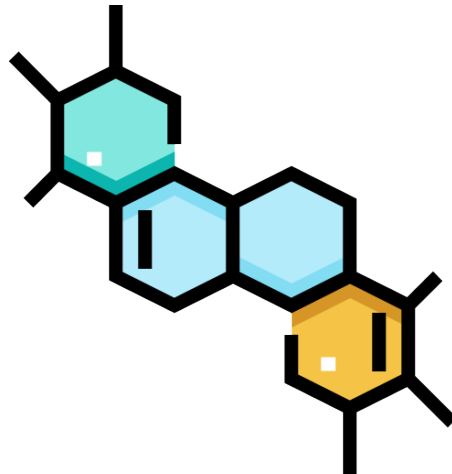
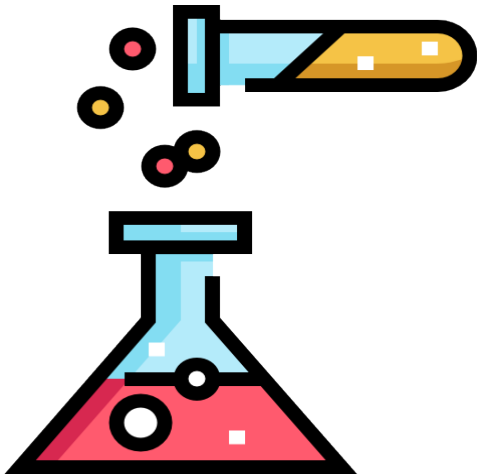


- **ASCARA Collaborative** – Multinational Anal Squamous Cell Carcinoma Registry and Audit. The objective of this collaborative effort is to pool experiences from high volume centers so as to better understand anal squamous cell carcinoma and intraepithelial neoplasia. The study is based at Imperial College London, United Kingdom



2019 RESEARCH WITH UCF—COLLEGE OF MEDICINE

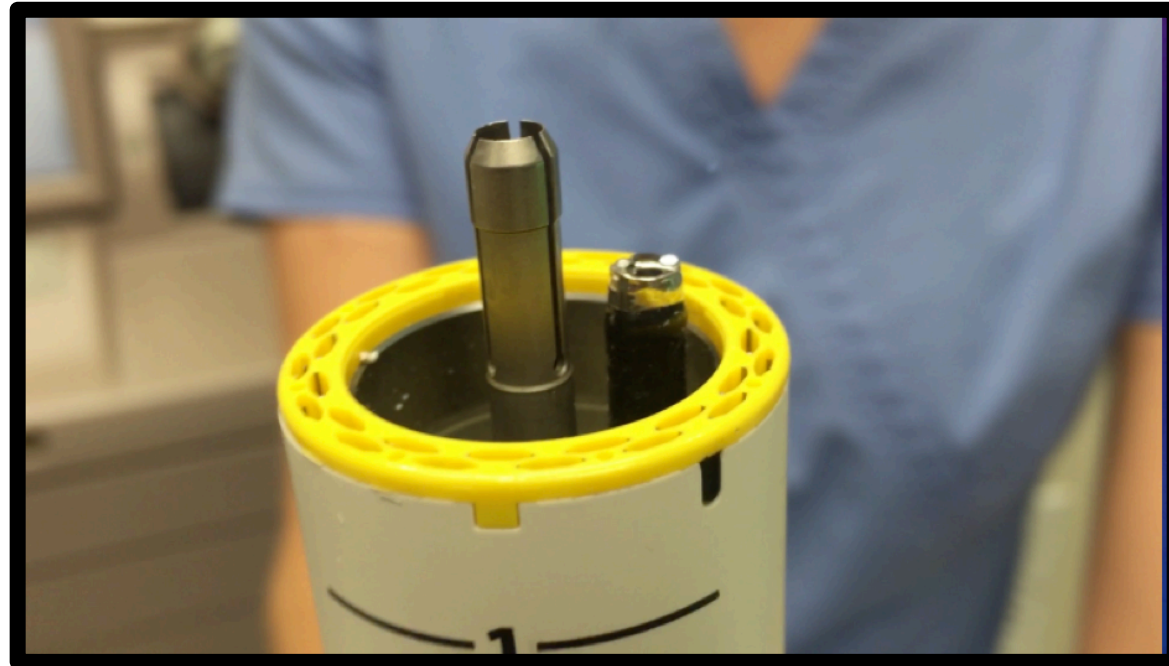
- Principle Investigator **Sam Atallah** is working in collaboration with at the Burnett School of Biomedical Sciences (UCF-College of Med) scientists **Annette Khaled** and **Deborah Altomare** to develop a bio-fluorescence dye that is colorectal cancer specific. If successful, the dye will allow surgeons to detect cancer cells and lymph nodes which contain tumor at the time of surgery. The project is a collaborative effort between HCA Healthcare and UCF.



US PATENT FILED 2019



- **S. Atallah:** Video Guided Endoluminal Stapling Device and Technology – United States Utility Patent – Status: **Filed** (2019)
- The device was featured at **SharkTank SAGES**
- It allows an endoluminal stapler to be guided precisely to its target with video assistance

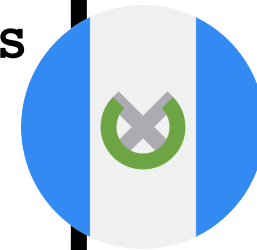


MEDICAL MISSION TRIPS



2019

- Middle East: Kuwait City, Kuwait
 - October 2019: **Sam Atallah, MD** performed 12 live colorectal surgeries; the objective is to teach and train local Mid-East Surgeons on advanced surgical techniques, including TAMIS, laparoscopy for cancer and IBD.
 - Dr. Atallah visits Kuwait on an ongoing basis, next trips planned for February 2020, and June, 2020.
- Central America: Verapaz, Guatemala
 - **Annamarie Kondak, PA** has been on two medical mission trips to Alta Verapaz, Guatemala, including in 2019, as a member of **Hands of Esperanza**, she is working to improve the quality of care and medicine to the indigent population of Verapaz.
 - Learn More: **HandsOfEsperanza.org**



A LOOK BACK: MEDICAL MISSION TRIPS 2019



LOCAL NEWS AND AWARDS 2019

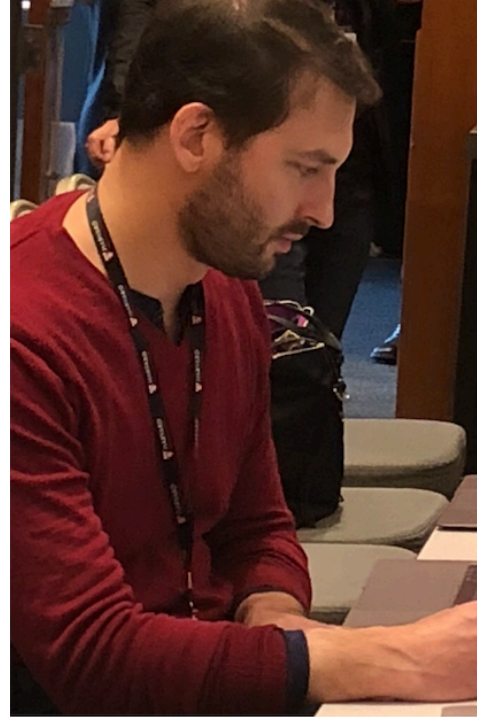


- **August 2019:** UCF College of Medicine 3rd year medical student Jorge Trilles and **Sam Atallah, MD** publish **“Frontiers in Robotic Surgery”** on the cover of *Orlando Medical News* highlighting the vision of **digital surgery**
- **December, 2019:** Dr. **Sam Atallah** voted **“TOP DOC”** *Orlando Magazine*



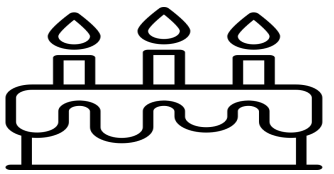
LEADERSHIP '19

- **S Atallah** went back to school in 2019, joining a class of ~ 100 surgeons
- Enrolled in the **Surgical Leadership Program at Harvard Medical School** (2019-2020 academic year)
- Exp. Graduation: Fall Semester, 2020





TAMIS TURNED 10

2009  2019



- **The TAMIS operation turned ten years old in 2019!**
- **Dr. Atallah registered the hashtag #TAMISturnsTEN on symplur.com**
- **In July, 2019, Applied Medical, Inc. created a fundraiser for charity based on the #TAMISturnsTEN hashtag on Twitter**
- **The campaign raised \$10,000 – and was donated to The Colorectal Cancer Alliance**



Applied Medical CRS @AppliedMed_CRS · Aug 1, 2019

The **#TAMISturnsTEN** campaign has come to a close. Thank you all for tweeting! **#TAMIS** advocates have successfully increased awareness and Applied Medical's donation to **@CCAlliance!** We can all be proud of our **#TAMIS** community and our efforts to improve patient outcomes.



Thank you to everyone who Tweeted during the #TAMISturnsTEN campaign!

Applied Medical is proud to donate \$10,000 to the Colorectal Cancer Alliance!

Colorectal Cancer Alliance



LOOKING AHEAD 2020-2021

- Expand Offices to Winter Park, FL '20
- Expand to HCA-Lake Nona Hospital '20
- *Digital Surgery* textbook to be published '20
- Plans for fellowship program to open doors in '22
- Mission Trips to the Middle East and Central America '20
- Dr. Atallah to initiate 1st USA human trials with next generation surgical robot '20
- *Artificial Intelligence in Surgery*, Collaborative with Apple, Inc. '20



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