

CURRICULUM VITAE and BIBLIOGRAPHY
ABDALLA ELNUR ZARROUG, MD, FACS, FAAP

**Current Position
and Employment**

Chief of Pediatric Surgery
Children's Hospital and Medical Center
Omaha, Nebraska. USA
Feb 1st, 2021 - Present

Professor of Surgery
Division Chief - Pediatric General Surgery
University of Nebraska Medical Center (UNMC)
Omaha, Nebraska. USA
Feb 1st, 2021 - Present

Professional Address(i)

Children's Hospital and Medical Center
Chief of Pediatric Surgery
8200 Dodge Street
Omaha, Nebraska. Zip code 68114-4113. USA

Professional Address(ii)

University of Nebraska Medical Center (UNMC)
Professor of Surgery
Division Chief of Pediatric Surgery
983280 Nebraska Medical Center. Campus zip 3280
Omaha, Nebraska. Zip code 68198. USA
Office Tel: + 1(402) 559-8990

Biographical Data

Citizenship: United States of America

**Current Academic
Rank and Position**

Professor of Surgery
Division Chief - Pediatric General Surgery
Department of General Surgery
University of Nebraska Medical Center (UNMC)
Omaha, Nebraska. USA
Feb 1st, 2021 - Present

Certification

American Board of Surgery Certified
General Surgery
Issued: September 13th, 2006
Maintenance of Certification is up to date
Recertification November 28th, 2017
Valid Until: December 31st, 2027

American Board of Surgery Certified
Pediatric Surgery
Issued: March 15th, 2010

Valid Until: Jan 10, 2022 or current under new rule

Fellow (Diplomate)

American College of Surgeons
Art and Science of General Surgery
Issued: October 3rd, 2010

American Association of Pediatrics
Specialty Fellow of Pediatric Surgery: Section on Surgery
Issued: June 1st, 2010

American Association of Pediatrics
Specialty Fellow of Section on Advances in Therapeutics
and Technology
Issued: 2011

EDUCATION

Fetal Surgery
Fellowship/Sabbatical

University of California, San Francisco (UCSF)
Fetal Surgery Visiting Scholar
Adjunct Associate Professor of Surgery
513 Parnassus Avenue. HSW-1601. Box 0570
San Francisco, California 94143 USA
June 1st, 2014 – December 31st, 2014
Chief and Director: Hanmin Lee, M.D

Pediatric Surgery
Fellowship
(Residency Training)

Emory University School of Medicine
Pediatric Surgery Resident/Fellow
1405 Clifton Road NE
Atlanta, GA 30322 USA
July 17th, 2006 – July 17th, 2008
Chairman: Richard R. Ricketts, M.D.
Program Director: Mark L. Wulkan, M.D. (Previous)
Program Director: Matthew Clifton, M.D.
Pediatric Surgery (ACGME 4451221033)

General Surgery
Residency

Mayo Clinic School of Medicine
Department of General Surgery
200 1st Street SW
Rochester, MN 55905 USA
Surgical Residency: July 1st, 2000 – June 30th, 2006
Chairman: Claude Deschamps, M.D.
Program Director: David R. Farley, M.D. (Previous)
Program Director: John M. Stulak, M.D. current
Mayo Clinic College of Medicine and Science (Rochester)
(ACGME 4402621163)

Medical Education

Cornell University Medical College
Weill Cornell Medical College (current name)
Degree: Doctor of Medicine
August 26th, 1996 – May 25th, 2000
1300 York Avenue
New York, NY 10021 USA

Undergraduate Education

Brown University
Degree: BA *Economics*
Concentration: International Economics
August 30th, 1992 – May 27th, 1996
University Hall
Providence, RI 02912 USA

Previous Employment

1. Division Chief - Pediatric General and Thoracic Surgery, Sidra Medicine. April 2nd, 2014 – November 27th, 2020. OPC Building. Room C1-109. P.O. Box 26999. Doha, Qatar. April 2nd, 2015 – November 27th, 2020
 - Organized and opened first clinic in Sidra. 7am-3pm daily
 - Organized and opened First Operating Rooms in Sidra
 - On call every third night (24 hours shifts and 7am-5pm work).
 - Organized and opened Trauma (ACS Level I: highest acuity) call
 - Emergency department consults and operations (appendectomy etc)
 - Neonatal ICU consults and operations (bowel atresia, necrotizing enterocolitis etc),
 - Short Bowel Intestinal Rehabilitation Program: National and Regional Center
 - Opened National and Regional Neonatal ECMO program
 - Birth consults and operations (gastroschisis, omphalocele etc),
 - Organized and opened Surgical Oncology program
 - Organized and opened Fetal Program, Bariatric Surgery, Pediatric Robotic Surgery programs
2. Consultant Pediatric Surgeon. Associate Professor of Surgery and Pediatrics. Mayo Clinic Rochester. Division of Pediatric Surgery. Department of General Surgery. Mayo Clinic Children's Center. Mayo Clinic College of Medicine. Mayo Building West 12. 200 First St SW. Rochester, Minnesota, USA. July 1st, 2006 – April 1st, 2014.
 - Clinic 8am – 5pm every other day
 - Operations/Surgery every other day
 - On call every third night (24 hours shifts and 7am-5pm work).
 - Trauma (ACS Level I: highest acuity) call
 - Emergency department consults and operations (appendectomy etc)

- Neonatal ICU consults and operations (bowel atresia, necrotizing enterocolitis etc),
- Pediatric ICU consults and operations (ECMO, Colitis etc),
- Birth consults and operations (gastroschisis, omphalocele etc),
- Oncology consults and operations (Wilms etc), and
- Regular pediatric surgery consults from ward and operations (hernias etc)
- I created and headed the Fetal Surgery, Bariatric Surgery, Pediatric Robotic Surgery programs

Fetal Surgery Mayo Clinic Fetal Treatment Center

- a. Lead and Program Director
- b. Open Fetal Myelomeningocele Repair multiple performed
- c. Multiple Fetal Interventions Performed
- d. January 2009– present

Pediatric Bariatric Surgery Mayo Clinic Children's Center

- a. Lead and Program Director
- b. Pediatric Laparoscopic Roux-en-Y, Lap-Band® Adjustable Gastric Band, and Gastric Sleeve procedures all performed
- c. January 2009– present

DaVinci® Robotic Pediatric Surgery Mayo Clinic Children's Center

- a. Program Director
- b. Mayo Clinic. Rochester, Minnesota
- c. Multiple Abdominal and Thoracic procedures performed
- d. Single-site platform trained September 16, 2013
- e. February 2009 – present

Previous Academic Appointments and Ranks

1. *Research Fellow*. Mayo Clinic Gastroenterology and General Surgery Research Unit, (NIH Funded *National Institutes of Health R01 DK 39337-15*) Rochester, MN July 1st, 2003 - June 30th, 2004
2. *Chief Resident Associate*. Mayo Clinic School of Medicine. Rochester, MN July 1st, 2005 - June 30th, 2006
3. *Senior Pediatric Surgery Fellow*. Emory University School of Medicine. Atlanta, Georgia. July 17th, 2006 – July 17th, 2007
4. *Chief Pediatric Surgery Fellow*. Emory University School of Medicine. Atlanta, Georgia. July 17th, 2007 – July 17th, 2008
5. *Mayo Clinic Scholar*. Division of Pediatric Surgery, Department of Surgery. Mayo Clinic School of Medicine. July 1st, 2006 – June 30th, 2008

6. *Senior Associate Consultant*. Division of Pediatric Surgery, Department of Surgery. Mayo Clinic School of Medicine. June 30th, 2008 – June 31st, 2011
7. *Consultant Pediatric Surgeon*. Mayo Clinic Rochester. Division of Pediatric Surgery. Department of General Surgery. Mayo Clinic Children's Center. Mayo Clinic College of Medicine. Rochester, Minnesota, USA. July 1st, 2011 – April 1st, 2014.
8. *Assistant Professor of Surgery*. Division of Pediatric Surgery, Department of Surgery. Mayo Clinic School of Medicine. July 1st, 2009 – February 28th, 2014
9. *Assistant Professor of Pediatrics*. Department of Pediatrics. Mayo Clinic School of Medicine. March 30th, 2010 – February 28th, 2014
10. *Associate Professor of Pediatrics*. Department of Pediatrics. Mayo Clinic School of Medicine. February 28th, 2014 – December 6th, 2017
11. *Associate Professor of Surgery*. Department of Surgery. Mayo Clinic School of Medicine. February 28th, 2014 – December 6th, 2017
12. *Associate Program Director for General Surgery*. Mayo Clinic Rochester. December 1st, 2012 – April 1st, 2014. Department of General Surgery. Mayo Clinic College of Medicine. Rochester, Minnesota, USA
13. *Associate Professor of Surgery*. University of California San Francisco: UCSF. March 1st, 2014 – June 1st, 2015. Division of Pediatric Surgery. Department of General Surgery. UCSF San Francisco, California, USA

Editorial Peer Review for Journals and Publications

1. Peer Reviewer – Surgery
Editors in Chief: Michael G. Sarr, MD and Andrew L. Warshaw, MD. June 2003 until present
 - a. *Surgery* is a high impact factor journal. I serve as a reviewer for pediatric surgery manuscripts on a regular basis.
2. Peer Reviewer – Diseases of the Esophagus
Editors in Chief: Claude Deschamps MD, and Kenneth K. Wang, MD. May 2006 until present
 - a. I serve as a reviewer for pediatric surgery manuscripts.

3. Editor in Chief – SAMA e-clinic
Sudanese American Medical Association (<http://sama-sd.org/sama-e-clinic>).
 - a. I serve as an editor-in-chief on the editorial panel and contributor to the bi-monthly online educational activity for January 2010 until present. This serves as an educational tool for members of SAMA both in the USA, UK, and Sudan.
4. Peer Reviewer – Surgical Innovation
Editor in Chief: Dr. Adrian Park. November 2010 until present
 - a. I serve as a reviewer for pediatric surgery manuscripts.
5. Peer Reviewer – Journal of Pediatric Surgery
Editor in Chief: Whitfield Holcomb, MD. June 2011 until present
 - a. The *Journal of Pediatric Surgery* is our most prestigious and highest impact pediatric surgical journal. Becoming a reviewer is recognition of international academic reputation and expertise within the pediatric surgical arena.
6. Peer Reviewer – Journal of Pediatric Surgery Case Reports
Editor in Chief: Steven Stylianos, MD. June 2014 until present
 - a. The *Journal of Pediatric Surgery Case Reports* has become an offshoot of its parent journal the *Journal of Pediatric Surgery*. Becoming a reviewer is recognition of international academic reputation and expertise within the pediatric surgical arena.
7. Peer Reviewer – Annals of Pediatric Surgery
Editor in Chief: Dr. Essam Elhalaby. February 2012 until present
 - a. *Annals of Pediatric Surgery* is an international journal with readership in the Middle East, Africa and Asia (non-USA). Serving as a reviewer for pediatric surgery manuscripts on a regular basis is recognition of achieving a reputation internationally as an expert in Pediatric Surgery (Innovation and Minimal Invasive Surgery).
8. Peer Reviewer – Fetal Diagnosis and Therapy
 - a. Editor-in-Chief: Eduard Gratacós
 - b. January 2017 until present
9. Editorial Board – Journal of Laparoendoscopic & Advanced Surgical Techniques
 - a. Editor-in-Chief Marco Fisichella
 - b. Pediatric section of the editorial board of Mary Ann Liebert, Inc.

Sub-Specialty Skills/Privileges/Certificates

1. Fetal Surgery

- a. Privileges: Mayo Clinic. Rochester, Minnesota
 - i. January 2009 – April 1st, 2014.
 - ii. Open Fetal Myelomeningocele Repair multiple performed
 - iii. Multiple Fetal Interventions Performed
 - iv. Surgical Lead: Mayo Clinic Fetal Treatment Center
 - b. Visiting Scholarship at University California San Francisco June 1st, 2014 to December 31st, 2014
 - c. Privileges: Sidra Medicine. Doha, Qatar
2. Pediatric Bariatric Surgery
- a. Privileges: Mayo Clinic. Rochester, Minnesota
 - i. January 2009 – April 1st, 2014.
 - ii. Pediatric Laparoscopic Roux-en-Y, Lap-Band® Adjustable Gastric Band, and Gastric Sleeve procedures all performed
 - b. Privileges: Sidra Medicine. Doha, Qatar
3. DaVinci® Robotic Pediatric Surgery
- a. Privileges: Mayo Clinic. Rochester, Minnesota
 - i. February 2009 – April 1st, 2014.
 - ii. Mayo Clinic. Rochester, Minnesota
 - b. Multiple Abdominal and Thoracic procedures performed
 - c. Single-site platform trained September 16, 2013
 - d. Privileges: Sidra Medicine. Doha, Qatar
4. Advanced Trauma Life Support (ATLS) Student Course
- a. Instructor - Multiple courses
 - i. 8th Edition. May 23-24, 2012. Mankato, MN
 - ii. 9th Edition. January 3rd-4th, 2013 Rochester, MN
 - iii. 9th Edition. August 27-30th, 2015. Doha, Qatar
5. Pediatric Fundamental Critical Care Support Course (PFCCS)
- a. Mayo Clinic. August 21-22, 2013. CME 16.5 credits
 - i. 8th Edition

Presentations (Oral Podium) National/International

* Mentored resident or medical student

1. **Zarroug AE**, Farley DR. *Spectacular Problems in General Surgery*. Midwestern Surgical Society. August 2001. Lake Geneva, Wisconsin. USA
2. **Zarroug AE**, Farley DR. *Malignant Pheochromocytoma*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. April 2002. Minneapolis, Minnesota. USA

3. **Zarroug AE**, Stavlo PL, Kays GA, Rodeberg DA, Moir CR. *Pediatric Laparoscopic-Assisted Proctocolectomy with Ileal Pouch-Anal Anastomosis: Surgical and Functional Outcomes*. American Pediatric Surgical Association. May 2004. Ponte Vedra Beach, Florida. USA
4. **Zarroug AE**, Stavlo PL, Rodeberg DA, Moir CR. *Laparoscopic Colectomy in Childhood: Technical Considerations and Options for Surgical Management: Video*. The American College of Surgeons. October 2004. San Francisco, California. USA
5. **Zarroug AE**, Libsch KD, Duenes JA, Sarr MG. *Postprandial Augmentation of Absorption of Water and Electrolytes in the Jejunum is Neurally Modulated: Implications for Segmental Small Bowel Transplantation*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. October 2004. Brainerd, Minnesota. USA
6. Houghton SG, **Zarroug AE**, Duenes JA, Sarr MG. *Circadian periodicity of hexose transporters in the rat jejunum: role of vagal innervation*. Mayo Clinic Resident Education Day. February 2005. Rochester, Minnesota. USA
7. **Zarroug AE**, Libsch KD, Duenes JA, Sarr MG. *Neural Modulation of Postprandial Augmentation of Absorption in the Canine Jejunum*. Society of University Surgeons: Resident Section. February 2005. Memphis, Tennessee. USA
8. Houghton SG, **Zarroug AE**, Duenes JA, Sarr MG. *The circadian periodicity of hexose transporters in the rat jejunum: role of vagal innervation*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2005. St. Paul, Minnesota. USA
9. **Zarroug AE**, Hamner CE, Pham TH, Houghton SG; Stavlo P, Moir CR, Rodeberg DA. *Bilateral Staged vs. Bilateral Simultaneous Thoracotomy in Children*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. September 2005. Rochester, Minnesota. USA
10. **Zarroug AE**, Hamner CE, Pham TH, Houghton SG; Stavlo P, Moir CR, Rodeberg DA. *Bilateral Staged vs. Bilateral Simultaneous Thoracotomy in the Pediatric Population: Which is better?* American Academy of Pediatrics (AAP). October 2005. Washington, DC. USA
11. Pham TH, Moir CM, ***Zarroug AE**, Iqbal CW, Bower TC. *Inferior Vena Cava or Aorta Repair and Reconstruction during Oncologic Resection in Children*. American Pediatric Surgical Association (APSA). May 2006. Hilton Head, South Carolina. USA
12. Pham TH, Nagorney DM, Iqbal CW, **Zarroug AE**, Wall J, Ishitani MB, Donohue JH, Moir CM. *Primary Liver Cancers in Children: An Appraisal of an Institutional Outcome*. Canadian Association of Pediatric Surgeons. September 2006. Calgary, Canada

13. Pham TH, Moir CM, **Zarroug AE**, Iqbal CW, Donohue JH. *Outcomes of Retroperitoneal Sarcomas in Children*. Canadian Association of Pediatric Surgeons (CAPS). September 2006. Calgary, Canada
14. **Zarroug AE**, Ricketts RR. *Just Another Gastroschisis – Resident’s Conference*. American Academy of Pediatrics. October 2006. Atlanta, Georgia. USA
15. Pham TH, Iqbal CW, Grams JM, ***Zarroug AE**, Donohue JH, Moir CM *Retroperitoneal Sarcomas in Children: Outcomes from an Institution*. Society of University Surgeons (SUS) February 2007. Phoenix, Arizona. USA
16. Pham TH, Iqbal CW, Grams JM, **Zarroug AE**, Wall JCH, Ishitani MB, Nagorney DM, Moir CM. *Outcomes of Primary Liver Cancer in Children: An Appraisal of Experience*. Society of University Surgeons February 2007. Phoenix, Arizona. USA
17. Hill SJ, Ricketts, RR, **Zarroug AE**. *Aortoesophageal Fistula: A Rare Complication from a Gastrostomy Tube*. "Spectacular Cases from Residents". American College of Surgeons: Clinical Congress. September 2008. San Francisco, California, USA
18. Abuattieh MO, ***Zarroug AE**. *Retained percutaneous endoscopic gastrostomy tube presenting as aorto-esophageal fistula*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2009. St. Paul, Minnesota. USA
19. Abuattieh MO, ***Zarroug AE**. *Thoracoscopic thoracic duct ligation in a child with plastic bronchitis: A short video presentation*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2009. St. Paul, Minnesota. USA
20. Krumrei N, ***Zarroug AE**. *Appropriate use of minimally invasive surgery in life threatening penetrating pediatric trauma*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2009. St. Paul, Minnesota. USA
21. Said SM, ***Zarroug AE**. *Spectacular cases of congenital diaphragmatic hernia: Successful thoracoscopic repair with associated pulmonary sequestration and bilateral hernia: A short video*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2009. St. Paul, Minnesota. USA
22. Boostrom SY, ***Zarroug AE**. *Laparoscopic choledochal cyst resection in a child*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2009. St. Paul, Minnesota. USA
23. Said SM, Gloviczki PG, ***Zarroug AE**. *Successful Laparoscopic Median Arcuate Ligament Syndrome Release. The First Report in Pediatric Patient*. 15th Annual Balfour Surgical Research Symposium. September 2009. Rochester, Minnesota. USA

24. Said SM, *Zarroug AE. *Congenital Diaphragmatic Hernia: Neonatal Thoracoscopic Repair*. 15th Annual Balfour Surgical Research Symposium. September 2009. Rochester, Minnesota. USA
25. Said SM, Gloviczki PG, *Zarroug AE. *Successful Transabdominal Laparoscopic Median Arcuate Ligament Syndrome Release. The First Report in Pediatric Patient*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. October 2009. Rochester, Minnesota. USA
26. Zendejas B, *Zarroug AE, Erben YM, Holley CT, Harmsen WS, Huebner M, Farley DR. *Impact of Childhood Inguinal Hernia Repair in Adulthood: A Fifty Year Follow-Up*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2010. Minneapolis, Minnesota. USA
 - **Clinical Science Presentation 1st Place**, Presenter: Benjamin Zendejas Mummert, MD
27. Zarroug AE. *Congenital Diaphragmatic Hernia Acute Management*. 2010 Mayo Clinic - Ospedale Pediatrico Bambino Gesu Conference. May 2010. Rochester, Minnesota. USA
28. Hashim Y; Swain JM, Garness RL, *Zarroug AE. *Laparoscopic Sleeve Gastrectomy in a Pediatric Patient: The Perfect Indication*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. September 2010. Duluth, Minnesota. USA
29. Zendejas B, *Zarroug AE, Erben YM, Huebner M, Farley DR. *Impact of Childhood Inguinal Hernia Repair in Adulthood: A Fifty Year Follow-Up*. 16th Annual Balfour Surgical Research Symposium. October 2010. Rochester MN. USA
30. Zendejas B, *Zarroug AE, Erben YM, Huebner M, Farley DR. *Impact of Childhood Inguinal Hernia Repair in Adulthood: A Fifty Year Follow-Up*. 98th Annual American College of Surgeons: Surgical Forum. October 2010. Washington, DC. USA
31. Askegard-Giesmann JR, Potter DD, *Zarroug AE, Ishitani MB, Moir CR. *Single Site Laparoscopic Appendectomy in Children: is it as safe and cost effective as laparoscopic appendectomy?* 44th Annual meeting of the Pacific Association of Pediatric Surgeons (PAPS). April 2011. Cancun, Mexico
32. Zendejas B, *Zarroug AE, Erben YM, Huebner M, Farley DR. *Impact of Childhood Inguinal Hernia Repair in Adulthood: A Fifty Year Follow-Up*. 33rd International Congress of the European Hernia Society. May 2011. Ghent, Belgium.
33. Zarroug AE, Hill SJ, Wulkan ML. *Thoracoscopic Thoracic Duct Ligation for Plastic Bronchitis*. 97th Annual American College of Surgeons: Video Based Education. October 2011. San Francisco, CA. USA

34. Said SM, *Zarroug AE. *Mesenteric Cystic Lymphangioma*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. September 2011. Red Wing, Minnesota. USA
35. Zarroug AE, Garness RL, Antiel R, Oderich GS, Gloviczki P. *Laparoscopic Median Arcuate ligament Release: Video*. International Pediatric Endosurgery Group (IPEG). March 2012. San Diego, CA. USA.
36. Zarroug AE, Garness RL, Antiel R, Oderich GS, Gloviczki P. *Minimally invasive release of the median arcuate ligament for Celiac Artery Compression Syndrome: Early experience in a pediatric population* . International Pediatric Endosurgery Group (IPEG). March 2012. San Diego, CA. USA.
37. Ruparel R, Bogert J, *Zarroug AE. *Cholecystectomy with Concomitant Splenectomy in Pediatric Hereditary Spherocytosis – Revisited*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. September 2012. St. Paul, MN. USA.
 - a. Third place prize of resident paper competition
38. Gibreel WO, Almassry M, AlKhebel M, *Zarroug AE. *A New, Simple Operative, Approach, for Bilateral Inguinal Hernia Repair in Girls: A Single Transverse Supra-pubic Incision*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2013. St. Paul, Minnesota. USA
39. Zeidan M, Gibreel WO , *Zarroug AE. *The Diagnostic Challenge of a Missed Proximal Tracheoesophageal Fistula: Lessons Learned*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. May 2013. St. Paul, Minnesota. USA
40. Kennedy R, Zarroug AE, Moir CR, Potter DD. *Ileal Pouch Anal Anastomosis in Pediatric Familial Adenomatous Polyposis: A 24 year review of operative technique and patient outcomes*. 22nd Annual Congress. International Pediatric Endosurgery Group (IPEG). June 2013. Beijing, China.
41. Zarroug AE, Alkhebel AE, Gibreel WO, Almassry M. *A New, Simple Operative, Approach, for Bilateral Inguinal Hernia Repair in Girls: A Single Transverse Supra-pubic Incision*. Technique Paper. Canadian Association of Paediatric Surgeons (CAPS). September 2013. Charlottetown, Canada
42. Fasen G, Fischer J, Lillegard JB, *Zarroug AE. *Avoiding Unnecessary CT Imaging in Pediatric Trauma: A New Predictive Model to Guide Clinical Decision Making*. American Academy of Pediatrics (AAP). Section on Surgery. October 2013. Orlando, Florida, USA

43. Basel S, Rowse P, *Zarroug AE. *Open vs. Thoracoscopic Thymectomy for Pediatric Myasthenia Gravis: Clinical Outcomes* American Academy of Pediatrics (AAP). Section on Surgery. October 2013. Orlando, Florida, USA.
44. Polites SF, Mohamed MI, *Zarroug AE. *A Simple Algorithm Reduces Computed Tomography Use in the Diagnosis of Appendicitis in Children*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. October 2013. Alexandria, Minnesota. USA
45. Polites SF, Mohamed MI, Moir CR, Ishitani MB, *Zarroug AE. *A Simple Algorithm Reduces Computed Tomography Use in the Diagnosis of Appendicitis in Children*. 9th Annual Academic Surgical Congress: Academic Surgical Society. February 2014. San Diego. California. USA
46. Gibreel WO, *Zarroug AE. *Swallowing Dysfunction in Adults with Surgically-Corrected Esophageal atresia/Tracheoesophageal Fistula: 63 Years of Follow up*. Minnesota Surgical Society- A Chapter of the American College of Surgeons. April 14th, 2014. Minneapolis, Minnesota. USA
47. Polites S, Haberman L, *Zarroug AE, Zelinski M. *Benchmarks for Splenectomy in Pediatric Trauma: How Are We Doing?* Western Pediatric Trauma Conference. July 10th, 2014, Phoenix, Arizona, USA
48. Polites S, *Zarroug AE. *Is single incision appendectomy superior to traditional Laparoscopy in children?* 23rd Annual Congress International Pediatric Endosurgery Group (IPEG). July 25, 2014. Edinburgh, Scotland
49. Polites S, *Zarroug AE. *Single Incision Laparoscopic Ileal Pouch-anal anastomosis in children- how does it compare to a traditional laparoscopic-assisted approach?* 23rd Annual Congress International Pediatric Endosurgery Group (IPEG) help in conjunction with British Association of Paediatric Surgeons (BAPS). July 24, 2014. Edinburgh, Scotland
50. Antiel RA, Zarroug AE, Moir CR. *Thoracoscopic left cardiac sympathetic denervation in children with malignant arrhythmia syndromes*. 23rd Annual Congress International Pediatric Endosurgery Group (IPEG). July 25, 2014. Edinburgh, Scotland
51. Zendejas B, Gibreel WO, Moir CM, *Zarroug AE. *Predictors of Bar Migration and Reoperation after Minimally Invasive Pectus Excavatum Repairs*. Scientific Forum program at the American College of Surgeons (ACS) 2015 Clinical Congress. October 4-8, Chicago, IL. USA.
52. Zarroug AE. *Robotic minimally invasive spine surgery: a proof-of-concept study with applicability to scoliosis correction*. IPEG's 26th Annual Congress for Endosurgery in

Children, held in conjunction with British Association of Paediatric Surgeons (BAPS). July 19-22, 2017. London, England.

53. **Zarroug AE.** *Single Incision for Bilateral Hernia.* 3rd Annual Pediatric Surgery Conference. Kuwait, Kuwait. March 24th, 2018
54. Elifringi M, **Zarroug AE,** *Common Complications of Gastrostomy Tubes.* (TAPS) Turkish Association of Pediatrics Surgery 36th Annual Meeting. Combined International Pediatric Endosurgery Group (IPEG) Middle East Chapter Third Annual Congress. Pediatric Surgical Nursing Association 22nd Annual Congress. October 25, 2018. Izmir, Turkey.
55. **Zarroug AE,** Elifrinji M, Khalil B. Radiologic image guided tube stoma insertion in neonatal short bowel syndrome: First case in the literature. IPEG's 28th Annual Congress for Endosurgery in Children. March 20-22, 2019. Santiago, Chile.
- 56.

Posters National/International

* Mentored resident or medical student

1. Ueno T, Duenes JA, **Zarroug AE,** Sarr MG. Mayo Clinic, Rochester, MN. *Nitroergic Mechanisms Mediating Inhibitory Control of Longitudinal Smooth Muscle Contraction in Mouse Small Intestine.* The Society for Surgery of the Alimentary Tract. April 2004. New Orleans, Louisiana. USA
2. Houghton SG, **Zarroug AE,** Duenes JA, Sarr MG. *Circadian Periodicity of Hexose Transporter mRNA and Protein Levels in the Rat Jejunum: Role of Vagal Innervation.* The Society for Surgery of the Alimentary Tract. May, 2005. Chicago, Illinois. USA
3. **Zarroug AE,** Hamner CE, Pham TH, Houghton SG; Stavlo P, Moir CR. Rodeberg DA. *Bilateral Staged vs. Bilateral Simultaneous Thoracotomy in the Pediatric Population.* Mayo Clinic Research Appreciation Month. August 2005. Rochester, Minnesota. USA
4. **Zarroug AE,** Hamner CE, Pham TH, Houghton SG; Stavlo P, Moir CR. Rodeberg DA. *Bilateral Staged vs. Bilateral Simultaneous Thoracotomy in the Pediatric Population.* Balfour Symposium Mayo Clinic. September 2005. Rochester, Minnesota. USA
5. Pham TH, Moir CM, Thompson GB, ***Zarroug AE,** Hamner CE, Farley DR, van Heerden JA, Lteif AN, Young WF. *Pheochromocytoma and Paraganglioma in Children: A Review of Medical and Surgical Management at a Tertiary Care Center.* American Pediatric Surgical Association. May 2006. Hilton Head, South Carolina. USA
6. Krumrei N, Wulkan ML, ***Zarroug AE.** *Appropriate Use of Minimally Invasive Surgery in Life Threatening Penetrating Pediatric Trauma.* John M. Templeton 9th Annual Pediatric Trauma Symposium. March 2009. Pittsburgh, Pennsylvania. USA

7. Said SM, ***Zarroug AE**. *Successful Thoracoscopic Staged Repair of Bilateral Congenital Diaphragmatic Hernia: First reported case* Mayo Clinic Young Investigator Research Symposium. March 2010. Rochester, MN. USA
8. **Zarroug AE**, Garness RL, Kumar S, Swain JM. *Laparoscopic Sleeve Gastrectomy in a Pediatric Patient: The Perfect Indication*. International Pediatric Endosurgery Group (IPEG). June 2010. Hawaii, USA.
9. Kennedy R, Potter DD,, Moir CR, **Zarroug AE** , Faubion W, Tung J. *Pediatric Chronic Ulcerative Colitis: Does Infliximab influence post-IPAA complication?* American Pediatric Surgical Association. May 2011. Palm Desert, CA. USA
10. Zendejas B, Kuchena A, Onkendi EO, Lohse CM, Moir CR, Ishitani MB; Potter DD; Farley DR,. ***Zarroug AE**. *Single-Institution 53 Year Experience with Umbilical Hernia Repairs in Children*. 44th Annual meeting of the Pacific Association of Pediatric Surgeons (PAPS). April 2011. Cancun, Mexico
11. Strajina V, Said S, ***Zarroug AE**. *Mesenteric Cystic Lymphangioma in Adults*. 17th Annual Balfour Surgical Research Symposium. October 2011. Rochester MN. USA
12. McKenzie TJ, Garness RL, Kumar S, Swain J, ***Zarroug AE**. *Laparoscopic Sleeve Gastrectomy in Adolescents*. 2011 American Academy of Pediatrics (AAP) National Conference and Exhibition. October 2011. Boston, MA. USA
13. Pandian TK, Zeidan MM, Ibrahim KI, Moir CR, Ishitani MB, ***Zarroug AE**. *Nodular Fasciitis in the Pediatric Population: A single Center Experience*. 4th Congress of the European Academy of Paediatric Societies – EAPS. Istanbul, Turkey. October 2012
14. Zeidan MM, Ibrahim KI, Pandian TK, Moir CR, Ishitani MB, ***Zarroug AE**. *Laparoscopic Cholecystectomy in the Pediatric Population: A Single Center Experience*. 4th Congress of the European Academy of Paediatric Societies – EAPS. Istanbul, Turkey - October 2012
15. Ruparel R, Bogert J, ***Zarroug AE**. *Cholecystectomy with Concomitant Splenectomy in Pediatric Hereditary Spherocytosis – Revisited*. Balfour Symposium. Mayo Clinic. November 2012. Rochester, MN. USA.
16. Antiel R, Moir CR, Potter DD, ***Zarroug AE**. *Intra-abdominal venous thrombosis after colectomy in Pediatric Patients with Chronic Ulcerative Colitis: Incidence, Treatment, and Outcomes*. 22nd Annual Congress International Pediatric Endosurgery Group (IPEG) June 2013. Beijing, China

17. Joyce D, Gibreel WA, Antiel R, *Zarroug AE. *Muscle Biopsy: A Modern Series*. 22nd Annual Congress International Pediatric Endosurgery Group (IPEG) June 2013. Beijing, China
18. Elraiayah T, Hashim Y, Elamin M, Erwin PJ, *Zarroug AE. *The Effect of Appendectomy on Future Tubal Infertility and Ectopic Pregnancy: A Systematic Review and Meta-Analysis*. Mayo Clinic Young Investigator Research Symposium. March 23rd, 2013. Rochester, Minnesota USA
19. Antiel RA, Kehl JE, Matsumoto JA, *Zarroug AE, Moir CR. *Percutaneous ultrasound-guided transperineal anorectoplasty*. Pacific Association of Pediatric Surgeons (PAPS). May 25th, 2014. Banff, Alberta, Canada
20. Gibreel WO, Fasen GS, Ishitani MB, Moir CR, *Zarroug AE. *Swallowing dysfunction in adults with surgically-corrected esophageal atresia/tracheoesophageal fistula: 63 years of follow up*. Pacific Association of Pediatric Surgeons (PAPS). May 25th, 2014. Banff, Alberta, Canada
21. Mohamed MI, Polites S, *Zarroug AE. Inpatient admission is not necessary following successful enema reduction of intussusception in children. 23rd Annual Congress International Pediatric Endosurgery Group (IPEG). July 24, 2014. Edinburgh, Scotland
22. Polites S, Abdelbasit A, Khair O, Taha O, Gibreel W, *Zarroug AE. How to impact delivery of pediatric surgical care in a developing country – start a fellowship training program. 23rd Annual Congress International Pediatric Endosurgery Group (IPEG). July 25, 2014. Edinburgh, Scotland
23. Antiel RA, Chaudhry RM, Moir CR, Ishitani MB, Arndt CA, Zarroug AE. Predictors of Survival in Pediatric Patients with Metastatic Osteosarcoma to the Lungs. 47th Congress of the International Society of Paediatric Oncology. Cape Town, South Africa. October 8-11, 2015.
24. Zendejas B, Gibreel WO, Moir CM, *Zarroug AE. *Predictors of Bar Migration and Reoperation after Minimally Invasive Pectus Excavatum Repairs*. Scientific Forum program at the American College of Surgeons (ACS) 2015 Clinical Congress. October 4-8, Chicago, IL. USA.
- 25.

Research Publications, Peer Reviewed

* Mentored resident or medical student

1. **Zarroug AE**, Yarbrough DE, Kendrick ML. Nonfunctional Malignant Pheochromocytoma. *Contemporary Surgery*. 2002; 58:504-507.

2. **Zarroug AE**, Golkar L, Eachempati SR, Barie PS. Vancomycin-resistant Enterococcus ventriculo-peritoneal shunt infection cured by monotherapy with chloramphenicol. *Surgical Infections*. 2003; 4:289-91. PMID: 14588164
3. **Zarroug AE**, Stavlo PL, Kays GA, Rodeberg DA, Moir CR. Accidental Burials in Sand: A Potentially Fatal Pediatric Summertime Hazard. *Mayo Clinic Proceedings*. 2004;79:774-776. PMID: 15182092
 - Editorial: Grosfeld JL. Burial by sand: summer play gone awry. *Mayo Clinic Proceedings*. 2004;79:733-734.
4. Ueno T, Duenes JA, **Zarroug AE**, Sarr MG. Nitroergic Mechanisms Mediating Inhibitory Control of Longitudinal Smooth Muscle Contraction in Mouse Small Intestine. *Journal of Gastrointestinal Surgery*. 2004 Nov-Dec; 8(7):831-41. PMID: 15531236
5. Libsch KD, **Zarroug AE**, Duininck TM, Duenes JA, Sarr MG. Extrinsic denervation alters postprandial absorption of glucose in the ileum: implications for small bowel transplantation. *Journal of Gastrointestinal Surgery*. 2005 Feb; 9(2):219-26. PMID: 15694818
6. Kollars J, ***Zarroug AE**, van Heerden J, Ishitani M, Lteif A, Stavlo P, Suarez L, Moir CR, Rodeberg DA. Primary Hyperparathyroidism in Pediatric Patients. *Pediatrics*. 2005 Apr; 115(4):974-80. PMID: 15805373
7. Palmer BA, ***Zarroug AE**, Poley RN, Kollars JP, Moir CR. Papillary thyroid carcinoma in children: risk factors and complications of disease recurrence. *Journal of Pediatric Surgery*. 2005 Aug; 40(8):1284-8. PMID: 16080933
8. Yarbrough DE, ***Zarroug AE**, Donohue JH. Dilemma: Abdominal pain with bloating won't subside. *Contemporary Surgery*. 2005; Vol 61, No 11
9. Nayci A, Stavlo P, ***Zarroug AE**, Zietlow S, Moir CR, Rodeberg DA. Snowmobile Injuries in Children and Adolescents. *Mayo Clinic Proceedings*. 2006; 81(1):39-44. PMID: 16438477
10. **Zarroug AE**, Hamner CE, Pham TH, Houghton SG; Stavlo P, Moir CR, Rodeberg DA. Bilateral Staged versus Bilateral Simultaneous Thoracotomy in the Pediatric Population. *Journal of Pediatric Surgery*. 2006 Apr; 41(4):647-51. PMID: 16567170
11. Houghton SG, **Zarroug AE**, Duenes JA, Fernandez-Zapico ME, Sarr MG. The Diurnal Periodicity of Hexose Transporter mRNA and Protein Levels in the Rat Jejunum: Role of Vagal Innervation. *Surgery*. 2006; 139:542-9. PMID: 16627065
12. **Zarroug AE**, Stavlo P, Moir CR. Pediatric Colon Surgery: Challenges, Functional Outcome and Quality of Life. *Seminars in Colon & Rectal Surgery*. 2006; 17:43-48.

13. Kolettis T, ***Zarroug AE**, Morse C, Farelly DR, Cassivi S. Is the Fourth Operation the Charm for Hypercalcemia? *Contemporary Surgery*. 2006; Vol62, No10:475-479.
14. **Zarroug AE**, Libsch KD, Houghton SG, Duenes JA, Sarr MG. Postprandial Augmentation of Absorption of Water and Electrolytes in the Jejunum is Neurally Modulated: Implications for Segmental Small Bowel Transplantation. *Journal of Gastrointestinal Surgery*. 2006; 10:586–592. PMID: 16627226
15. Pham TH, Moir CM, Thompson GB, ***Zarroug AE**, Hamner CE, Farley DR, van Heerden JA, Lteif AN, Young WF. Pheochromocytoma and Paraganglioma in Children: A Review of Medical and Surgical Management at a Tertiary Care Center. *Pediatrics*. 2006 Sep;118(3):1109-1117. PMID: 16951005
16. Konstantinos M, Kolettis T, ***Zarroug AE**, Farelly DR. The Pheochromocytoma that wouldn't go away. *Contemporary Surgery*. 2007; Vol63, No2:77-80.
17. Pham TH, Iqbal CW, **Zarroug AE**, Donohue JH, Moir C. Retroperitoneal sarcomas in children: outcomes from an institution.. *J Pediatr Surg*. 2007 May; 42(5):829-33. PMID: 17502193
18. Pham TH, Iqbal CW, Grams JM, **Zarroug AE**, Wall JC, Ishitani MB, Nagorney DM, Moir C. Outcomes of primary liver cancer in children: an appraisal of experience. *J Pediatr Surg*. 2007 May; 42(5):834-9. PMID: 17502194
19. Thompson JL, **Zarroug AE**, Matsumoto JM, Moir CR. Anatomy of successfully separated thoracopagus-omphalopagus conjoined twins. *Clin Anat*. 2007 Oct; 20(7):814-8. PMID: 17583591
20. **Zarroug AE**, Swetha S, Wulkan ML. Incidental chylous fluid during hernia repair may be a harbinger of malrotation. . *J Pediatr Surg*. 2010 Jan; 45(1):E17-8. PMID: 20105567
21. Said SM, Moir CR, Ishitani MB, ***Zarroug AE**. Successful Thoracoscopic Staged Repair of Bilateral Congenital Diaphragmatic Hernia. *J Pediatr Surg*. 2010; Apr;45(4):E5-8. PMID: 20385267
22. Hill SJ, ***Zarroug AE**, Ricketts RR, Veeraswamy R. Bedside Placement of an Aortic Occlusion Balloon To Control a Ruptured Aorto-Esophageal Fistula in a Small Child. *Ann Vasc Surg*. May 2010; PMID: 20471216
23. Zendejas B, ***Zarroug AE**, Erben YM, Holley CT, Farley DR. Impact of Childhood Inguinal Hernia Repair in Adulthood: 50 Years of Follow-Up. *J Am Coll Surg*. 2010 Oct 28. PMID: 21036077
 - Invited for CME questions in *J Am Coll Surg*

24. Said SM, *Zarroug AE, Glovizcki P, Sheilds RC. Pediatric Median Arcuate Ligament Syndrome: First Report of Familial Pattern and Transperitoneal Laparoscopic Release. *J Pediatr Surg*. 2010; Dec;45(12):e17-20. PMID: 21129525
25. Shehata B, Chang T, Greene C, Steelman C, McHugh M, Zarroug A, Ricketts R. Gastric heterotopia with extensive involvement of the small intestine associated with congenital short bowel syndrome and intestinal malrotation. *Fetal Pediatr Pathol*. 2011;30(1):60-3. PMID: 21204668
26. Zendejas B, Kuchena A, Onkendi EO, Lohse CM, Moir CR, Ishitani MB, Potter DD, Farley DR, *Zarroug AE. Fifty-three-year experience with pediatric umbilical hernia repairs. *J Pediatr Surg*. 2011 Nov;46(11):2151-6. PMID: 22075348
27. Kennedy R, Potter DD, Moir C, Zarroug AE, Faubion W, Tung J Pediatric chronic ulcerative colitis: does infliximab increase post-ileal pouch anal anastomosis complications? *J Pediatr Surg*. 2012 Jan;47(1):199-203. PMID: 22244417
28. Kumar S, Zarroug AE, Swain JM. Adolescent bariatric Surgery. *Abdom Imaging*. 2012 Mar 3. PMID: 22388667
29. Garness RL, *Zarroug AE, Kumar S, Swain JM. Laparoscopic Sleeve Gastrectomy in a Pediatric Patient. *Surg Laparosc Endosc Percutan Tech*. 2012 Apr;22(2):e112-4. PMID: 22487636
30. Kennedy RD, Potter DD, Osborn JB, Zietlow S, Zarroug AE, Moir CR, Ishitani MB, McIntosh A. Childhood motocross truncal injuries: high-velocity, focal force to the chest and abdomen. *BMJ Open*. 2012 Nov 19;2(6). doi:pii: e001848. 10.1136/bmjopen-2012-001848. Print 2012. PMID: 23166134
31. Zarroug AE, Hashim Y, El-Youssef M, Zeidan MM, Moir CR. Wandering Spleen as a Cause of Mesenteric and Portal Varices: A New Etiology?" *J Pediatr Surg*. 2013 Mar;48(3):e1-4. doi: 10.1016/j.jpedsurg.2012.12.042. PMID: 23480940
32. Stenerson M, Renaud D, Dufendach K, Swain J, Zarroug A, Homme J, Kumar S. Recurrent Wernicke Encephalopathy in an Adolescent Female Following Laparoscopic Gastric Bypass Surgery. *Clin Pediatr (Phila)*. 2013 Apr 3. PMID:23559489
33. Sharma A, Freese DK, Chandan V, Zarroug AE, Swain JM, Kumar S. Hepatic Cirrhosis Secondary To Nonalcoholic Fatty Liver Disease in a 12-Year-Old Girl With Morbid Obesity. *Clin Pediatr (Phila)*. 2013 Apr 5. PMID:23564302
34. Pandian TK, Zeidan MM, Ibrahim KA, Moir CR, Ishitani MB, *Zarroug AE. Nodular Fasciitis in the Pediatric Population: A Single Center Experience, *J Pediatr Surg*. 2013 Jul;48(7):1486-9. PMID: 23895959

35. Lillegard JB, Kennedy RD, Ishitani MB, **Zarroug AE**, Feltis B: Autologous Blood Patch for Persistent Air Leak in Children. *J Pediatr Surg*. 2013 Sep;48(9):1862-6. doi:10.1016/j.jpedsurg.2012.12.040. PMID: 24074658
36. Ghazzawi Y, ***Zarroug AE**, Absah I. Slipping Rib Syndrome. *Consultant for Pediatricians*. 2013 Oct; 12(10):479-80.
37. Joyce DD, Antiel RM, Oderich G, Gloviczki P, Tung J, Grothe R, Absah I, ***Zarroug AE**. Pediatric Median Arcuate Ligament Syndrome: Surgical Outcomes and Quality of Life. *J Laparoendosc Adv Surg Tech A*. 2013 Dec 13. PMID: 24328507
38. Ruparel RK, Bogert JN, Moir CR, Ishitani MB, Khan SP, Rodriguez V, ***Zarroug AE**. Synchronous splenectomy during cholecystectomy for hereditary spherocytosis: Is it really necessary? *J Pediatr Surg*. 2014 Mar;49(3):433-5. doi: 10.1016/j.jpedsurg.2013.05.012. PMID: 24650472
39. Antiel RM, Hashim Y, Moir CR, Rodriguez V, Elraiyah T, ***Zarroug AE**. Intra-abdominal venous thrombosis after colectomy in pediatric patients with chronic ulcerative colitis: Incidence, treatment, and outcomes. *J Pediatr Surg*. 2014 Apr;49(4):614-7. doi: 10.1016/j.jpedsurg.2013.10.004. Epub 2013 Oct 17. PMID: 24726123
40. Zeidan MM, Pandian TK, Ibrahim KA, Moir CR, Ishitani MB, ***Zarroug AE**. Laparoscopic Cholecystectomy in the Pediatric Population: A Single-Center Experience. Surgical Laparoscopy, Endoscopy & Percutaneous Techniques. *Surg Laparosc Endosc Percutan Tech*. 2014 Jun;24(3):248-50. doi: 10.1097/SLE.0b013e3182a4c039. PMID: 24887542
41. Polites SF, Mohamed MI, Habermann EB, Homme JL, Anderson JL, Moir CR, Ishitani MB, ***Zarroug AE**. A Simple Algorithm Reduces Computed Tomography Use in the Diagnosis of Appendicitis in Children. *Surgery*. 2014 Jun 19. pii: S0039-6060(14)00140-8. doi: 10.1016/j.surg.2014.04.001. PMID: 24953265
42. Kennedy RD, **Zarroug AE**, Moir CR, Mao SA, El-Youssef M, Potter DD. Ileal pouch anal anastomosis in pediatric familial adenomatous polyposis: a 24-year review of operative technique and patient outcomes. *J Pediatr Surg*. 2014 Sep;49(9):1409-12. doi: 10.1016/j.jpedsurg.2014.03.003. PubMed PMID: 25148748.
43. Gibreel WO, Selcen D, Zeidan MM, Ishitani MB, Moir CR, **Zarroug AE**. Safety and yield of muscle biopsy in pediatric patients in the modern era. *J Pediatr Surg*. 2014 Sep;49(9):1429-32. doi: 10.1016/j.jpedsurg.2014.02.079. Epub 2014 Feb 26. PubMed PMID: 25148753.
44. Elraiyah T, Hashim Y, Elamin M, Erwin PJ, **Zarroug AE**. The effect of appendectomy in future tubal infertility and ectopic pregnancy: a systematic review and meta-analysis. *J*

- Surg Res.* 2014 Dec;192(2):368-374.e1. doi: 10.1016/j.jss.2014.08.017. Epub 2014 Aug 13. Review. PubMed PMID: 25303785.
45. Polites SF, **Zarroug AE**, Moir CR, Potter DD. Single-incision laparoscopic ileal pouch-anal anastomosis in children--how does it compare to a laparoscopic-assisted approach? *J Laparoendosc Adv Surg Tech A.* 2015 Feb;25(2):167-71. doi: 10.1089/lap.2014.0297. Epub 2014 Nov 25. PubMed PMID: 25423290.
 46. Polites SF, Zielinski MD, **Zarroug AE**, Wagie AE, Stylianos S, Habermann EB. Benchmarks for splenectomy in pediatric trauma: how are we doing? *J Pediatr Surg.* 2015 Feb;50(2):339-42. doi: 10.1016/j.jpedsurg.2014.09.001. Epub 2014 Dec 5. PubMed PMID: 25638633.
 47. Polites SF, Habermann EB, **Zarroug AE**, Wagie AE, Cima RR, Wiskerchen R, Moir CR, Ishitani MB. A comparison of two quality measurement tools in pediatric surgery--the American College of Surgeons National Surgical Quality Improvement Program-Pediatric versus the Agency for Healthcare Research and Quality Pediatric Quality Indicators. *J Pediatr Surg.* 2015 Apr;50(4):586-90. doi: 10.1016/j.jpedsurg.2014.10.049. Epub 2014 Dec 6. PubMed PMID: 25840068.
 48. Polites SF, Potter DD, Moir CR, **Zarroug AE**, Stephens MC, Tung J, Pavey ES, Harmsen WS, Pemberton JH. Long-term outcomes of ileal pouch-anal anastomosis for pediatric chronic ulcerative colitis. *J Pediatr Surg.* 2015 Mar 26. pii: S0022-3468(15)00218-3. doi: 10.1016/j.jpedsurg.2015.03.044. [Epub ahead of print] PubMed PMID: 25863545.
 49. Kennedy R, **Zarroug A**, Moir C, Potter D. Reply to Letter to the Editor. *J Pediatr Surg.* 2015 Jul;50(7):1242. doi: 10.1016/j.jpedsurg.2015.03.053. Epub 2015. Apr 2. PubMed PMID: 25913897.
 50. Zendejas BM, **Zarroug AE**, Kendrick ML. Laparoscopic Prophylactic Total Gastrectomy in Childhood for the Prevention of Hereditary Diffuse Gastric Cancer. <http://online.liebertpub.com/doi/full/10.1089/vor.2014.0221> *Videoscopy.* June 04, 2015 - VOLUME 25 - ISSUE 3 –
 - a. Highlighted for the month of June 2015 edition
 51. **Zarroug AE**, Alkhebel AM, Gibreel WO, Almassry M. A new, simple operative approach for bilateral inguinal hernia repair in girls: A single transverse supra-pubic incision *J Indian Assoc Pediatr Surg.* 2015 Oct-Dec;20(4):170-3. doi: 10.4103/0971-9261.154649. PMID: 26628807
 52. Gibreel WO, Mansuri II, Grothe RM, **Zarroug AE**. Absent inferior mesenteric vein as a cause of lower gastrointestinal bleeding: The first reported case in the literature. *J Ped Surg Case Reports* 2 (12) 538-540.

53. Polites SF, Habermann EB, **Zarroug AE**, Thomsen KM, Potter DD. Thoracoscopic Vs open resection of congenital cystic lung disease- utilization and outcomes in 1120 children in the United States. *J Pediatr Surg*. 2015 Dec 12. pii: S0022-3468(15)00821-0. doi:10.1016/j.jpedsurg.2015.12.004. PMID: 26794289
54. Gibreel W, Zendejas B, Joyce D, Moir CR, **Zarroug AE**. Minimally Invasive Repairs of Pectus Excavatum: Surgical Outcomes, Quality of Life, and Predictors of Reoperation. *J Am Coll Surg*. 2016 Mar;222(3):245-52. doi: 10.1016/j.jamcollsurg.2015.11.020. Epub 2015 Nov 26. PMID: 26922600
55. Howard JJ, Abinahed J, Navkar N, Peyrat JM, Al-Ansari A, Sigalet DL, **Zarroug AE**. Robotic-assisted minimally invasive surgery of the spine (RAMISS): a proof-of-concept study using carbon dioxide insufflation for multilevel posterior vertebral exposure via a sub-paraspinal muscle working space. *Int J Med Robot*. 2017 Sep;13(3). doi: 10.1002/rcs.1781. Epub 2016 Oct 19. PMID: 27758024
56. Gibreel W, Zendejas B, Antiel RM, Fasen G, Moir CR, **Zarroug AE**. Swallowing Dysfunction and Quality of Life in Adults With Surgically Corrected Esophageal Atresia/Tracheoesophageal Fistula as Infants: Forty Years of Follow-up. *Ann Surg*. 2016 Sep 6. PMID: 27607100
57. Abushahin A, **Zarroug A**, Wagdi M, Janahi I. Bronchogenic Cyst as an Unusual Cause of a Persistent Cough and Wheeze in Children: A Case Report and Literature Review. *Case Rep Pediatr*. 2018 Feb 21;2018:9590829. doi: 10.1155/2018/9590829. eCollection 2018. PMID: 29527382
58. Deola S, Guerrouahen BS, Sidahmed H, Al-Mohannadi A, Elnaggar M, Elsadig R, Abdelalim EM, Petrovski G, Gadina M, Thrasher A, Wels WS, Hunger SP, Wang E, Marincola FM; ATH Consortium, Maccalli C, Cugno C. [Collaborators \(23\)](#)[Bernardo ME](#), [Comoli P](#), [Curran K](#), [Davies G](#), [Dotti G](#), [Elawad M](#), [Ferrone S](#), [Follenzi A](#), [Fuleihan R](#), [Gajjar A](#), [Hassan A](#), [Hijazi Z](#), [Le Blanc K](#), [Maio M](#), [McGrath E](#), [Parham P](#), [Piemonti L](#), [Porteus M](#), [Qasim W](#), [Saab R](#), [Stroncek D](#), [Teskrat F](#), **Zarroug AE**. Tailoring cells for clinical needs: Meeting report from the Advanced Therapy in Healthcare symposium (October 28-29 2017, Doha, Qatar). *J Transl Med*. 2018 Oct 10;16(1):276. doi: 10.1186/s12967-018-1652-y. PMID: 30305089
59. Elifranji M, Robinson A, Mammoo S, **Zarroug A**, Khalil BA. Radiologic Image-Guided Tube Stoma Insertion in Neonatal Short Bowel Syndrome: First Case Report in the Literature. *J Laparoendosc Adv Surg Tech A*. 2019 Oct;29(10):1330-1333. doi: 10.1089/lap.2019.0048. Epub 2019 Aug 22. PMID: 31436514

Research Publications, Non-Peer Reviewed

* Mentored resident or medical student

1. **Zarroug AE**, Kumar S.. Adolescent Bariatric Surgery. *Arab Health Magazine. Issue 2. 2012. P20-24.* <http://www.lifesciencesmagazines.com/AHM/Arab-Health-Magazine>
2. **Zarroug AE**. Gastrostomy Feeding Tubes. *Ask Mayo Expert.* February 2013
3. **Zarroug AE**. *Fetal Diagnosis and Therapy. A Reference Handbook for Pediatric Surgeons. Second Edition. Fetal Masses and Neoplasms. 2019. APSA.*
 - a. <file:///Users/abdallazarroug/Downloads/APSA-Fetal-Handbook-2019.pdf>
 - b. From the Fetal Diagnosis and Treatment Committee of the American Pediatric Surgical Association April 2019 Edited under the leadership of editor Erin Perrone, MD, and the 2016-2018 APSA Fetal Diagnosis and Treatment Committee
4. **Zarroug AE**. *Fetal Diagnosis and Therapy. A Reference Handbook for Pediatric Surgeons. 2013. APSA.*
 - a. From the Fetal Diagnosis and Treatment Committee of the American Pediatric Surgical Association April 2013 Edited under the leadership of editors Brad Feltis and Chris Muratore, and the 2012-2015 APSA Fetal Diagnosis and Treatment Committee *and* was the vision of the prior chairs, Francois Luks and Hanmin Lee.

Book Chapters

1. **Zarroug AE**, Sarr MG. Incisional and ventral hernia repair; Commentary (p. 397-400). *Controversies in Laparoscopic Surgery* by Ahmad Assalia (Editor), Michel Gagner (Editor), Moshe Schein (Editor). Publisher: Springer; 1 edition (December 7, 2005). ISBN-10: 3540229523
2. **Zarroug AE**, Thompson GB. Pediatric Thyroid Cancer. Chapter 27. *Surgery of the Thyroid and Parathyroid Glands, second edition.* Edited by GW. Randolph, M.D., Aug 2012. Publisher: Philadelphia: Elsevier Saunders. p 251-257. ISBN: 9781437722277
3. **Zarroug AE**, Thompson GB. Childhood Thyroid Carcinoma. *Tiroit (Thyroid), second edition.* Edited by Adnan Isgor MD, FACS . Nobel Tip Kitabevleri Tic. Ltd. Sti. 2013. adnig75@hotmail.com. P 537-545. ISBN:978-975-420-997-6

Invited Panels National/International

1. **Zarroug AE**, *Pediatric Surgery Video-based Education Program **Panelist***. American College of Surgeons - 96th Annual Clinical Congress. October 2010. Washington, DC. USA
2. **Zarroug AE**, *Neonatal Laparoscopic Surgery Education Program: **Panelist***. Sudanese Association of Paediatric Surgeons – 1st Annual Meeting. Feb 2012. Khartoum, Sudan
3. **Zarroug AE**, *Congenital Abdominal Wall Defects Education Program: **Panelist***. Sudanese Association of Paediatric Surgeons – 1st Annual Meeting. Feb 2012. Khartoum, Sudan
4. **Zarroug AE**, *Analysis of Defined Mortality for Patent Ductus Arteriosus: Implications for Measuring Quality in Neonatal Surgical Care. **Discussant*** American College of Surgeons - Annual Clinical Congress. October 2012. Chicago, IL. USA
5. **Zarroug AE**. *Morning Scientific Video Session I: Coolest Tricks, Extraordinary Procedures. **Moderator***. 22nd Annual Congress for Endosurgery in Children. International Pediatric Endosurgery Group (IPEG). June 2013. Beijing, China
6. **Zarroug AE**. *Second Annual "Current Concepts and Controversies in Pediatric Surgery" virtual symposium: **Faculty and Discussant***. Hosted by Cincinnati Children's Hospital, Children's Hospital of Atlanta, Women and Children's Hospital of Buffalo, and Akron Children's Hospital. September 17th, 2014. Akron, Ohio USA
7. **Zarroug AE**, *Robotic Pediatric Surgery. **Faculty and Discussant*** Arab Robotics Conference. March 2016. Doha, Qatar
8. **Zarroug AE**, *Minimally Invasive Hernia Surgery. **Faculty, Discussant and Panelist***. (TAPS) Turkish Association of Pediatrics Surgery 36th Annual Meeting. Combined International Pediatric Endosurgery Group (IPEG) Middle East Chapter Third Annual Congress. Pediatric Surgical Nursing Association 22nd Annual Congress. October 24-27, 2018. Izmir, Turkey.
9. **Zarroug AE**, *What Should be my First Publication. **Faculty, Lecturer, Judge, Discussant and Panelist***. 8th Surgical Research and Innovation Ideas Symposium. November 30th – December 1st 2018. Doha, Qatar
10. **Zarroug AE**. *Instructor Advanced Laparoscopy Course. Moderator Quick Shots Panel 1 and 2. **IPEG's 28th Annual Congress for Endosurgery in Children***. March 20-22, 2019. Santiago, Chile.

Videos

1. You Tube Video. Minimally Invasive Hernia Surgery in Neonates. 2009.
 - a. <http://www.youtube.com/watch?v=KhEbAuPrXoY>
2. You Tube Video. Pediatric Surgery for Gastroesophageal Reflux Disease GERD: Mayo. 2009.
 - a. <http://www.youtube.com/watch?v=wvHFMpzniPg>
3. You Tube Video. Bariatric Surgery in Adolescents. 2013.
 - a. http://www.youtube.com/watch?v=QCxGe_fUhPs
4. You Tube Video. Median Arcuate Ligament Syndrome. 2013.
 - a. <http://www.youtube.com/watch?v=EbFBaZRv558>
 - b. <http://www.youtube.com/watch?v=tuhArOw4Gas>
 - c. http://www.youtube.com/watch?v=QCxGe_fUhPs
5. Videoscopy. Laparoscopic Prophylactic Total Gastrectomy in Childhood for the Prevention of Hereditary Diffuse Gastric Cancer.
<http://online.liebertpub.com/doi/full/10.1089/vor.2014.0221> Videoscopy. June 04, 2015 - VOLUME 25 - ISSUE 3 –
 - a. Highlighted for the month of June 2015 edition

Research Funds/Grants

(IntraMural)

1. The effectiveness of screening labs in identifying pediatric trauma patients with visceral injury, due to blunt abdominal trauma and the need for diagnostic imaging
 - a. Principal Investigator: **Zarroug AE**
 - b. Role: Principal Investigator
 - c. Surgery Research Committee, Mayo Foundation. \$1,900
 - d. 03/23/2012
2. Just a G-tube: Short-term outcomes after Gastrostomy tube placement and analysis of patient-provider communication
 - a. Principal Investigator: **Zarroug AE**
 - b. Role: Principal Investigator
 - c. Surgery Research Committee, Mayo Foundation. \$1,620
 - d. 04/03/2013
3. Surgical Outcomes after Minimally Invasive Pectus Excavatum Repair
 - a. Principal Investigator: **Zarroug AE**
 - b. Role: Principal Investigator
 - c. Surgery Research Committee, Mayo Foundation. \$2,520

- d. 5/21/2013
4. Quality of Life or Pectus Carinatum patients after Bracing
 - a. Principal Investigator: **Zarroug AE**
 - b. Role: Principal Investigator
 - c. Surgery Research Committee, Mayo Foundation. \$5,424
 - d. 06/05/2013
 - e. Statistical: \$2100, Survey: \$3324
5. Disease Specific Quality of Life of patients with Hirschsprung's disease
 - a. Principal Investigator: **Zarroug AE**
 - b. Role: Principal Investigator
 - c. Surgery Research Committee, Mayo Foundation. \$5,424
 - d. 1/14/2014
 - e. Statistical: \$2,10; Survey: \$3324
6. QOL of Patients after Minimally Invasive Pectus Excavatum Repair
 - a. Principal Investigator: **Zarroug AE**
 - b. Role: Principal Investigator
 - c. Surgery Research Committee, Mayo Foundation. \$5,735
 - d. 1/22/2014
 - e. Statistical: \$3845; Survey: \$1890
7. Robotic-assisted minimally invasive surgery of the spine (RAMISS) using CO2 insufflation for multilevel posterior vertebral exposure via a submuscular working space: spinal implant insertion and assessment for CO2-related spinal cord compression (Pilot Study)
 - a. Principal Investigator: **Zarroug AE** and Howard J
 - b. Role: Principal Investigator
 - c. 500,000 Qatari Riyal (\$137,276 us dollars)
 - d. Scientific Merit Committee, Sidra Medicine
 - e. June 6th, 2017

Visiting Professorships

1. **Zarroug AE**. Minimally Invasive Surgery: Al-Shurta: University of Ribat Grand Rounds. January 2009. Khartoum, Sudan
2. **Zarroug AE**. Minimally Invasive Surgery: Soba Hospital: University of Khartoum Grand Rounds. January 2009. Khartoum, Sudan
3. **Zarroug AE**. Fetal Surgery: The New Frontier: Hamad Medical Corporation: General Surgery Grand Rounds. February 25th, 2015 Doha, Qatar

4. **Zarroug AE.** Pediatric Pheochromocytoma: Hamad Medical Corporation: Department of Pediatrics Grand Rounds. February 2nd, 2016. Doha, Qatar
5. **Zarroug AE.** Keynote speaker: Remine Lecture. 52nd Annual Priestley Society (Mayo Clinic Surgical Society) October 14th, 2016. Washington D.C. USA

Invited Lectures

1. **Zarroug AE,** Nagorney DM. Metastatic Colorectal Tumors to the Liver. Mayo Balfour Symposium. September 2000. Rochester, Minnesota. USA
2. **Zarroug AE.** Congenital Chest Wall Deformities. Emory General Surgery Grand Rounds. Emory School of Medicine. October 2006. Atlanta, Georgia. USA
3. **Zarroug AE.** Neonatal Minimally Invasive Surgery: Mayo Clinic Pediatric Grand Rounds. February 2009. Rochester, Minnesota. USA
4. **Zarroug AE.** Pediatric Minimally Invasive Surgery: Albert Lea Medical Health Center. March 2010. Albert Lea, Minnesota. USA
5. **Zarroug AE.** Pediatric Minimally Invasive Surgery: Austin Medical Health Center. March 2010. Austin, Minnesota. USA
6. **Zarroug AE,** Neonatal Laparoscopic Surgery. Sudanese Association of Paediatric Surgeons – 1st Annual Meeting. Feb 2012. Khartoum, Sudan
7. **Zarroug AE,** Congenital Abdominal Wall Defects Education Program: Panelist. Sudanese Association of Paediatric Surgeons – 1st Annual Meeting. February 2012. Khartoum, Sudan
8. **Zarroug AE.** Abdominal Compartment Syndrome: Pediatric Intensive Care Unit Development Days. Mayo Clinic. September 2012. Rochester, Minnesota. USA
9. **Zarroug AE.** Our First Open Fetal Surgery Case at Mayo Clinic: Board of Trustees Annual General Meeting. Mayo Clinic. September 2012. Rochester, Minnesota. USA
10. **Zarroug AE.** Fetal Surgery at Mayo Clinic: Department of Surgery Allied Health Staff Conference. Mayo Clinic. September 2012. Rochester, Minnesota. USA
11. **Zarroug AE.** Fetal Surgery at Mayo Clinic: Department of Surgery Conference. Mayo Clinic. January 2013. Rochester, Minnesota. USA
12. **Zarroug AE.** Fetal Surgery at Mayo Clinic: Division of Pediatric Surgery Conference, Department of Surgery. Mayo Clinic. February 2013. Rochester, Minnesota. USA

13. **Zarroug AE**, Ishitani MB. Pediatric Surgery Quality Reviews: Mayo Clinic Pediatric Ground Rounds. November 2013. Rochester, Minnesota. USA
14. **Zarroug AE**. Fetal Surgery. Minnesota State Assembly of Surgical Technologists. Mayo Clinic. February 2014. Rochester, Minnesota. USA
15. **Zarroug AE**. Key Note Speaker. “What’s new in Pediatric Minimally Invasive Surgery”. **Sudanese Association of Paediatric Surgeons**. November 4th, 2015. Khartoum, Sudan
16. **Zarroug AE**. Minimally Invasive Thoracic Surgery: Updates. 4th Arab Pediatric Pulmonary Association Congress. Hamad Medical Corporation. Sharq Village and Spa. November 19th, 2016. Doha, Qatar
17. **Zarroug AE**. Fetal Surgery: New Frontier. Advanced Therapies in Healthcare. Sidra Symposia. Four Seasons Hotel. October 28th, 2017. Doha, Qatar
18. **Zarroug AE**. What About Fetal Surgery. 3rd Pediatric Surgery Conference: Innovation and Education in Pediatric Surgery. Marina Hotel. March 25th, 2018. Kuwait, Kuwait
19. **Zarroug AE**. *American College of Surgeons: Qatar Chapter*. Invited Speaker. Kuwait Association of Surgeons: Third Conference. Aljaber Conference Center. November 14-16, 2019. Kuwait, Kuwait.

Institutional/Departmental Administrative Responsibilities, /Committee Memberships

1. *Member*, Admissions Committee. Brown University. 8/1995-7/1996
 - a. Undergraduate Student Representative for two years
2. *Member*, Admissions Committee. Weill Cornell Medical College. 8/1998-7/2000
 - a. Medical Student Representative for two years
3. *Chairman*, Laparoscopic General Surgery Committee. Mayo Clinic School of Medicine. 3/2004 to 6/2006
 - a. Represented all general surgery residents and their specific needs prior to, during and after the Mayo Simulation Center opened. This was the first simulation center to be opened at Mayo Clinic and remains a highlight and cornerstone of current education for all general surgery residents.
4. *Member*, General Surgery Residency Committee. Mayo Clinic Rochester. 7/2008 to 4/2014
 - a. We meet monthly to decide all issues related to our general surgery residency program

5. *Member*, Pediatric Surgery Patient Care Improvement. Mayo Clinic Rochester. 12/2008 to 4/2014.
 - a. Monthly multidisciplinary meeting to enhance pediatric patient care.
6. *Officer*, New Technology Committee. American Pediatric Surgical Association (**APSA**). 1/2011 to present
 - a. *Developed white paper on ethical standards of introducing novel technologies into the pediatric surgical arena*
 - b. *Develop annual new technology program for general meeting*
 - c. *Write review chapter for Seminars in Pediatric Surgery for young surgeons introducing novel technology*
7. *Officer*, Innovation Session Selection Committee. American Pediatric Surgical Association (**APSA**). 1/2012, 1/2013 to present. Annual set of meetings to choose abstracts.
8. *Member*, Mayo Clinic Enterprise Project Management Standards. 1/2011 to 4/2014
 - a. Monthly meetings to ensure compliance within projects at Mayo Clinic.
9. *Member*, International Advisory Committee. Mayo Clinic Rochester. 1/2012 to 4/2014
 - a. Ensure excellent patient care and delivery for all international patients. Travel to target countries to enhance business and patient referrals to Mayo Clinic.
10. *Officer*, Education Committee. International Pediatric Endosurgery Group (**IPEG**). 01/2012 to present
 - a. Set standards and agenda for annual meeting.
11. *Member*, The Department of Surgery Clinical Practice Committee. Mayo Clinic Rochester. 1/2012 to 4/2014
 - a. The CPC approves all clinical protocols, pathways and guidelines within the Department of Surgery, which is over 200 surgeons. It is the governing clinical body for the dept. of surgery.
 - b. Represented all pediatric surgical issues, marketing programs, and branding of Mayo Clinic surgery initiatives.
12. *Member*, The Department of Surgery Clinical Trials in Research Committee. Mayo Clinic Rochester. 1/2012 to 4/2014
13. *Member*, The Department of Surgery Novel Technology Committee. Mayo Clinic Rochester. 1/2012 to 4/2014
 - a. Develop and enhance innovation. Ensure patient safety and ethical introduction of new technologies.

14. *Officer*, Fetal Surgery Committee. American Pediatric Surgical Association (**APSA**). 1/2012 to present
 - a. Wrote chapters on fetal retroperitoneal tumors and ovarian tumors. This is the first book from APSA to be distributed to all pediatric surgery fellows in the USA and Canada.
 - b. I also wrote multiple (>20) original questions for fetal retroperitoneal tumors, fetal ovarian tumors, and fetal congenital pulmonary lesions to allow CME credit to be obtained for participants reading the book.
 - c. Developed program for Fetal Surgery Session (quarter day) annually.

15. *Assistant Program Director*, Department of General Surgery. Assistant Program Director for Preliminary Surgery: General Surgery. December 2012 until 4/2014.
 - a. Bi-annual formal review of all 18-20 preliminary residents with formal evaluations
 - b. Review and aid in selection of preliminary residency candidates
 - c. Assist the Program Director for General Surgery in any manner with preliminary surgery resident
 - d. Complete residency administrative responsibility for all 20 (annual) preliminary residents.
 - e. Oversee and ensure the quality of didactic and clinical education. Monitor resident supervision at all participating sites
 - f. Maximize future residency positions for preliminary residents.
 - g. Prepare all information required by the ACGME as it relates to preliminary residents.

16. *Officer*, Innovation Abstract Selection Committee. American Pediatric Surgical Association (**APSA**). 1/2012 to present. Annual set of meetings to choose abstracts.

17. *Member*, Committee of Committees. Sidra Medicine. 4/2014 until present.
 - a. Prior to the Sidra Medicine hospital opening, we ensured all committees had appropriate oversight, reporting mechanisms, personnel membership/representation and ensured committees did not have overlapping or competing responsibilities

18. *Member*, Intensive Care Unit Resuscitation Task Force. Sidra Medicine. 4/2014 until present.
 - a. Prior to the Sidra Medicine hospital opening, we ensured all committees had appropriate oversight, reporting mechanisms, personell membership/representation and ensured committees did not have overlapping or competing responsibilities

19. *Lead*, Robotic Surgery Task Force. Sidra Medicine.
 - a. 4/2014 until present.
 - b. We will establish pediatric robotic surgery at Sidra

20. Point of Care Committee: Sidra.
 - a. Member 3/2015 until present
 - b. Goal is establish parameters for point of care testing throughout the Sidra enterprise
21. *Member*, Intensive Care Unit Resuscitation Task Force. 4/2014 until present.
22. Neonatal ECMO taskforce: Hamad Medical Corporation.
 - a. Goal is to establish ECMO (Extracorporeal Membrane Oxygenation) in neonates which to date has not been performed in Qatar.
23. JAO Taskforce Lead – Fetal Surgery
24. Peri-operative Committee- Sidra
25. *Chair*, Guidelines Committee. International Pediatric Endosurgery Group (**IPEG**) – Middle East Chapter. 10/2017 to present
 - a. Create Guidelines for Minimally Invasive Pediatric Surgery.
26. *President*, American College of Surgeons (**ACS**): Qatar Chapter September 2017 – present
27. *Chair and Organizer*. International Pediatric Endosurgery Group (**IPEG**) – Middle East Chapter Conference with WOFAPS. World’s First Combined Robotic and Laparoscopic Pediatric Hands on course. Sidra Medicine. Doha, Qatar. October 30-31, 2019
 - a. Two day course of robotic and laparoscopic hands on experience
- 28.

Specialty Courses

1. Basic Life Support (BLS)
 - a. April 2000: Cornell University Medical College. New York, New York
2. Microvascular Anastomosis Course
 - a. January - February 2004: Mayo Clinic School of Medicine. Rochester, Minnesota
3. Advanced Cardiac Life Support (ACLS):
 - a. April 2004: The Mayo Clinic. Rochester, Minnesota

- i. (expires June 15, 2006)
 - b. October 2017: Sidra Medicine. Doha, Qatar
 - i. (expires October 1, 2019)
4. Advanced Miniature Access Surgery for Pediatric Surgeons in Training Course:
 - a. November 2006: The Women & Children's Hospital of Buffalo. Buffalo, New York
5. DaVinci® Robotic Course:
 - a. January 2009: Davinci Si Live Animal Training. Hackensack, New Jersey
 - b. This was required for Robotic surgery privileges
 - c. September 2013: Houston TX. Davinci Live Animal Training Single Site platform DaVinci Si training. Required for use of the single site platform.
6. Lap-Band® Adjustable Gastric Banding System: Advanced Laparoscopic Fellowship Program:
 - a. February 2009: Irvine, California
 - b. This is required for Lap-Band® surgery privileges
7. Pediatric Advanced Life Support (PALS):
 - a. February 2014: Mayo Clinic. Rochester, Minnesota
 - b. February 2009: Mayo Clinic. Rochester, Minnesota
 - c. August 2004: Mayo Clinic. Rochester, Minnesota
8. Pediatric Surgical Oncology Review Course:
 - a. March 2009: St. Jude Children's Research Hospital. Memphis Tennessee
9. Current Strategies in Pediatric Surgery
 - a. July 2009: Washington D.C.
10. Advanced Trauma Life Support (ATLS): Student Course
 - a. November 2009: Mayo Clinic. Rochester, Minnesota
 - b. May 2003: Mayo Clinic. Rochester, Minnesota
 - c. June 2000: Mayo Clinic. Rochester, Minnesota
 - d. (expires November 6, 2013)
11. Advanced Trauma Life Support (ATLS): Instructor Course
 - a. April 24th, 2012: Suisin City CA. USA
 - b. Certified Instructor ID Number 232224
12. Advanced Trauma Life Support (ATLS) Course as Instructor i.e. examiner other students
 - a. 8th Edition. May 23-24, 2012. Mankato, MN
 - b. 9th Edition. January 3rd-4th, 2013 Rochester, MN
 - c. 9th Edition. August 27-30th, 2015. Doha, Qatar

13. Fetal Surgery Course:
 - a. June 2011: University of California San Francisco (UCSF), San Francisco, California
 - b. Extensive Course that prepared our team for our first open fetal surgery at Mayo Clinic Rochester in 2012
14. Fetal Surgery Visting Scholarship
 - a. University of California San Francisco. Benioff Children's Hospital. Fetal Treatment Center.
 - b. June 1st, 2014 unittl December 31st 2014
 - c. Mini-fellowship in Fetal Surgery with Hanmin Lee, MD and Fetal Treatment Center
15. Leadership Development for Physicians in Academic Health Centers
 - a. Harvard University T.H. Chan School of Public Health
 - b. October 11 – 23, 2015
 - c. 55 AMA PRA Category 1 Credit
16. Bariatric Surgery SADI Course
 - a. Advanced course in Bariatric Surgery SADI
 - b. March 28-29, 2019 Madrid, Spain
17. Bariatric Surgery Update Course
 - a. Optimizing Minimally Invasive Bariatric Surgery: An O.R. Team Approach
 - b. May 17-18, 2019. San Diego, California, USA
 - c.
18. Master Class Paediatric Robotic Surgery Course
 - a. Advanced Pediatric Robotic Surgery
 - b. October 17-18, 2019

Professional Society Memberships

1. American School In London Alumni Association: 07/1992 – present
2. Brown University Alumni Association: 07/1996 – present
3. Student National Medical Association (SNMA): 1996 – 2003
4. American Medical Student Association (AMSA): 1996 – 2007
5. Minnesota Medical Association: 07/2000 – present
6. Minnesota Surgical Society: 2000 – present

7. Cornell University Medical School (Weill) Medical Alumni Association: 2000- present
8. American Medical Association (**AMA**): 2000 – present
9. The Priestley Society (Mayo Clinic Surgical Alumni Society): January 1st, 2006 – present
 - a. Keynote speaker: Remine Lecturer. October 14th, 2016. Washington DC, USA
10. Mayo Clinic Alumni Association: 2006 - present
11. Minnesota Medical Association: 2008 – present
12. Zumbro Valley Medical Association: 2008 – present
13. Children’s Oncology Group (**COG**): Sept 9th, 2009 – present
14. Sudanese Association of Paediatric Surgeons (**SAPS**):
 - a. 1/2009 – present
 - b. This was created in coordination of creating a new Pediatric surgery fellowship in Sudan.
 - c. Founding Member
15. International Pediatric Endosurgery Group (**IPEG**): 03/09/2009 – present
 - a. Committee member (Education) and Officer
16. American Pediatric Surgical Association (**APSA**):
 - a. Candidate Member: 2010-2011
 - b. Full Member: May 3rd, 2011 – present
 - c. Committee member and Officer
17. Sudanese American Medical Association (**SAMA**):
 - a. Full Member 2008 – present
 - b. Executive Committee 2010-present
 - c. Vice-President 2011-present
 - d. Board of Trustees 2013 - present
18. American Association of Pediatrics (**AAP**):
 - a. Member (FAAP) October 19th, 2009 – present
 - b. Specialty Fellow of Surgical Section June 1st, 2010 – present
 - c. Specialty Fellow of Section on Advances in Therapeutics and Technology 2011 – present

19. American College of Surgeons (ACS):
 - a. Member 2008 – present
 - b. Fellow of the College (FACS) 2010 – present
 - c. President: Qatar Chapter of the ACS. September 2017 until present.
 - i. First Chapter in Qatar ever created
 - ii. Chosen by peer-voting as President
20. International Pediatric Endosurgery Group (IPEG): Middle East Chapter August 1, 2017 – present
 - a. Chair of Guidelines Committee
21. American College of Surgeons (ACS): Qatar Chapter September 2017 – present
 - a. President

EDUCATIONAL ACTIVITIES

(Curriculum/Course Development, Teaching, Mentorship)

Curriculum/Course Development

1. **Residency Associate Program Director**, Department of General Surgery. Assistant Program Director for Preliminary Surgery Residency: General Surgery. December 2012 until April 2014.
 - a. Complete residency administrative responsibility for all 20 (annual) preliminary residents.
 - b. Oversee and ensure the quality of didactic and clinical education.
 - c. Monitor resident supervision at all participating sites
 - d. Bi-annual review of all 18-20 preliminary residents with formal evaluations. Review and aid in selection of preliminary residency candidates.
 - e. Maximize future residency positions for preliminary residents.
 - f. Prepare all information required by the ACGME as it relates to preliminary residents.
 - g. Organize preliminary surgery residents educational ‘boot camp’ curriculum at beginning of year
 - h. Organize ‘how to match and be successful in residency’ program
2. Educational Booklet “How to Survive Pediatric Surgical Rotation”. June, 2008
 - a. Comprehensive ‘how to guide’ including conference schedules, order sets, most common diagnoses with therapy, operative preparation, clinical pathways and protocols
3. Pediatric Surgery Education Seminars. Monthly lectures to all general surgery residents (besides pediatric surgery residents). 2008 to 04/2014.

4. Mock Oral Exams – Examiner.
 - a. General surgery chief residents from four hospitals are given mock oral exams
 - b. May 2009
 - c. May 2010
 - d. May 2011
 - e. May 2012
 - f. May 2013

5. *Creation of a new Fellowship in Sudan: Team Leader and Educational Program Coordinator, Sudanese Pediatric Surgery*
 - a. Facilitated the establishment of a new two-year fellowship (Diplomate) curriculum and program in Sudan. First graduating class was February 2012.
 - b. **This, in my opinion, is probably the most significant contribution I have made so far.** This included creating a new and complete curriculum specifically for Pediatric Surgeons to-be in Sudan. This was coordinated with the local surgeons who all had British-based background. Although I was the only USA trained surgeon, they still adopted a USA-based curriculum and program for the Fellows.
 - c. Each aspect of pediatric surgical training (hepatobiliary, neonatal bowel obstruction, thoracic etc...) was given an educational curriculum for learning and testing. Four hospitals had the majority role for teaching. Visiting Professors were recruited on a bimonthly basis to provide didactics.
 - d. Helped organize internationally renowned pediatric surgeons gave oral examinations at end of fellowship.
 - e. Multiple visits were made to Sudan to facilitate this fellowship's success

6. *Neonatal Laparoscopic Surgery Education Program.*
 - a. Feb 2012. Khartoum, Sudan
 - b. **Sudanese Association of Paediatric Surgeons – 1st Annual Meeting.** This was the meeting we inaugurated the first conference of pediatric surgeons in Sudan. We also graduated all seven fellows that passed the Sudanese Boards after the two year fellowship.
 - c. This has become a semi-annual event
 - d. I organized the entire program and curriculum

7. *Congenital Abdominal Wall Defects Education Program*
 - a. Sudanese Association of Paediatric Surgeons.
 - b. Feb 2012. Khartoum, Sudan
 - c. I directed a symposium on congenital abdominal wall defects

8. Sudanese American Medical Association (SAMA): 2nd Annual Meeting, September 2011. More than 100 attendees.
 - SAMA is the only non-profit, non-religious organization in the USA dedicated to the professional and personal development of health care providers of Sudanese descent

- As Program Coordinator of the Educational Session, I created and organized a full day of educational programs. This includes inviting appropriate physicians, setting a detailed agenda, ensuring appropriate implementation. These included:
 - a. What we look for in an applicant
 - b. How to successfully interview
 - c. What it takes to match
 - Formally reviewed and critiqued all submissions for the Research Symposium
 - How to get into residency break out session (half day)
 - As Chairperson for Humanitarian Activities we had a session on non-religious volunteer work in Sudan
 - As Chairperson of Surgical Specialty sub-group we discussed collaborative scientific, educational and charitable initiatives
9. Sudanese American Medical Association (SAMA): 3rd Annual Meeting, September 2012. More than 150 attendees.
- As Program Coordinator of the Educational Session, I organized a full day of educational programs. This includes inviting appropriate physicians, setting a detailed agenda, ensuring appropriate implementation. These included:
 - a. What we look for in an applicant
 - b. How to successfully interview
 - c. What it takes to match
 - Mock interviews break out session. (half day)
 - a. We had 10 minute mock interviews with 5 minute critiques. There were 8 interviewers and over 40 interviewees. Each interviewee video-taped their interview for group critique.
 - Formally reviewed and critiqued all submissions for the Research Symposium
 - How to get into residency break out session (half day)
 - As Chairperson for Professional Development we had a session for mentoring other Attendings (post-residency) on career advice, academic productivity, research initiatives and other professional development activities (half day)
 - As Chairperson of Surgical Specialty sub-group we discussed collaborative scientific, educational and charitable initiatives
10. Sudanese American Medical Association (SAMA): 4th Annual Meeting, September 6th, 2013. More than 140 attendees.
- As Program Coordinator of the Professional Development Session, I organized a full day of programs designed to enhance the careers of physicians. This includes inviting appropriate physicians, setting a detailed agenda, ensuring appropriate implementation. These included:
 - a. What do we want in a personal statement
 - b. How to successfully interview
 - c. What it takes to match
 - Mock interviews break out session. (half day)

- a. We had 10 minute mock interviews with 5 minute critiques. There were 6 interviewers and over 45 interviewees. Each interviewee video-taped their interview for group critique.
 - How to get into residency break out session (half day)
 - As Chairperson for Professional Development we had a session for mentoring other Attendings (post-residency) on career advice, academic productivity, research initiatives and other professional development activities (half day)
11. Sudanese American Medical Association (SAMA): 5th Annual Meeting, September 4th, 2014. More than 160 attendees.
 - As Program Coordinator of the Professional Development Session, I organized a full day of educational programs. This includes inviting appropriate physicians, setting a detailed agenda, ensuring appropriate implementation. These included:
 - a. How important is research
 - b. How to successfully interview
 - c. What it takes to match
 - Mock interviews break out session. (half day)
 - a. We had 10 minute mock interviews with 5 minute critiques. There were 12 interviewers and over 50 interviewees. Each interviewee video-taped their interview for group critique.
 - Formally reviewed and critiqued all submissions for the Research Symposium
 - How to get into residency break out session (half day)
 - As Chairperson for Professional Development we had a session for mentoring other Attendings (post-residency) on career advice, academic productivity, research initiatives and other professional development activities (half day)
 - As Chairperson of Surgical Specialty sub-group we discussed collaborative scientific, educational and charitable initiatives such as the Pediatric Craniofacial mission conducted in Soba Hospital, Khartoum, Sudan
12. Sudanese American Medical Association (SAMA)
 - a. Online Web-based E-clinic with monthly clinical cases and with multiple-choice based questions.
 - b. Co-Editor-in-Chief
13. *Team Leader*, Volunteer Surgical Trip to Gaza, Palestinian Territories.
 - a. September 2011
 - b. October 2013
 - c. Daily Lectures within a Pediatric Laparoscopic Educational Program
14. *Team Leader*, Volunteer Surgical Trip to Nablus, West Bank, Palestinian Territories
 - a. November 2012
 - b. Daily Lectures within a Pediatric Laparoscopic Educational Program
15. *Team Leader*, Volunteer Surgical Trip to Utmeh and Idlib, Syria.
 - a. November 2012

- b. ATLS-style Trauma course given to over 100 physicians
16. Electronic Curriculum for Pediatric Surgery Residents. 2012 to present
 17. Provide CME questions to the *J Am Coll Surg* on an ad-hoc basis
 18. *Pediatric Laparoscopic Surgery Course*.
 - a. Director/Leader: I organized the entire program and curriculum along with our local Surgeon Professor Abdelbasit Ali.
 - b. November 2015. Khartoum, Sudan
 - c. **This coincided with the second Sudanese Association of Paediatric Surgeons meeting.** This course involved lectures, for a half day session, simulation for a half day session and two operative days with three operating rooms. Pediatric surgery leaders from Egypt (Essam El-Halaby) and local Sudanese Surgeons (Abdelbasit Ali) lead an operative room with me. Each room had one resident and general surgery and one pediatric surgery fellow operating.
 - d. Approximately 20 procedures were performed
 19. *Pediatric Laparoscopic Surgery Training – Advanced Course*.
 - a. Director along with the local Surgeons Professor Aydin Yagmurlu and Visiting Professor Sameh Shehata.
 - b. (TAPS) Turkish Association of Pediatrics Surgery 36th Annual Meeting. Combined International Pediatric Endosurgery Group (IPEG) Middle East Chapter Third Annual Congress. October 24-27, 2018. Izmir, Turkey.
 20. *Founding President and Organizer*. American College of Surgeons – Qatar Chapter. First Annual Meeting. Doha, Qatar. November 26, 2018
 - a. Inaugural Meeting of the Chapter
 21. *Founding President and Organizer*. American College of Surgeons – Qatar Chapter. Second Annual Meeting. Doha, Qatar. Sidra Medicine. Doha, Qatar. September 14th, 2019
 - a. One day laparoscopic hands on course (42 participants) and meeting
 22. *Chair and Organizer*. International Pediatric Endosurgery Group (**IPEG**) – Middle East Chapter Conference with WOFAPS. World’s First Combined Robotic and Laparoscopic Pediatric Hands on course. Sidra Medicine. Doha, Qatar. October 30-31, 2019
 - a. Two day robotic and laparoscopic hands-on course. 55 participants

Teaching

1. Lecture. Metastatic Colorectal Tumors to the Liver. Mayo Balfour Symposium. September 2000. Rochester, Minnesota. USA
2. *Mayo Clinic Teaching Award*: Chief Resident Associate. May 1st, 2006
3. *Emory University Teaching Award*: Chief Resident. June 1st, 2008
4. Congenital Chest Wall Deformities. Emory General Surgery Grand Rounds. Emory School of Medicine. October 2006. Atlanta, Georgia. USA
5. Educational e-Pamphlet Creation “How to Survive Pediatric Surgical Rotation”. 2010
6. Surgical Olympics: Mayo Simulation Center for General Surgery Residents.
 - a. Biannually 2008 to 2014. July and January.
 - b. Supervised the central venous access catheter workshop/testing
7. Minimally Invasive Surgery: Al-Shurta Hospital: University of Ribat Grand Rounds. January 2009. Khartoum, Sudan
8. Minimally Invasive Surgery: Soba Hospital: University of Khartoum Grand Rounds. January 2009. Khartoum, Sudan
9. Neonatal Minimally Invasive Surgery: Mayo Clinic Pediatric Ground Rounds. February 2009. Rochester, Minnesota. USA
10. Spectacular Cases during a Pediatric Surgery Fellowship – Invited Lecture
Mayo Clinic Rochester. Minnesota. January 2009, February 2010
 - a. Focus group (half day) for residents interested in pediatric surgery detailing academic practice as a pediatric surgeon
11. Mock Oral Exams - Examiner
 - As an examiner, general surgery chief residents from four hospitals are given mock oral exams and then critiqued. This exercise has the honor of being one of the most valuable teaching tools for residents taking their general surgery board exams the following year(s).
 - Mayo Clinic Rochester, Gundersen Lutheran Medical Foundation Program, Iowa Methodist Medical Center, Marshfield Clinic - St. Joseph's Hospital Program. Minnesota.
 - a. May 2009
 - b. May 2010
 - c. May 2011
 - d. May 2012
 - e. May 2013

12. Pediatric Minimally Invasive Surgery: Albert Lea Medical Health Center. March 2010.
Albert Lea, Minnesota. USA
13. How to get into a Pediatric Surgery Fellowship - Invited Lecture
Mayo Clinic Rochester. Minnesota. February 2009. March 2011
 - a. Focus group (half day). Discussed detailed 3-5 year strategies to successfully match into pediatric surgery fellowship, the most competitive fellowships post general surgery residency
14. Mayo Medical School Surgery Interest Group– Invited Lectures. Mayo Clinic Rochester. Minnesota.
 - a. Mayo Clinic Rochester. Minnesota. April 2009
 - b. Mayo Clinic Rochester. Minnesota. May 2009
 - c. Mayo Clinic Rochester. Minnesota. May 2010
 - d. Mayo Clinic Rochester. Minnesota. May 2011
 - e. Mayo Clinic Rochester. Minnesota. May 2012
15. Mayo Medical School Surgery - Teaching Rounds
Mayo Clinic Rochester. Minnesota.
 - a. 2009 March, April, May, July, August, October, November, December
 - b. 2010 Jan, March, April, May, July, August, October, December
 - c. 2011 Jan, March, April, May, July, August, October, December
 - d. 2012 Jan, March, April, May, July, August, October, December
 - e. 2013 Jan, March, April,
16. Pediatric Minimally Invasive Surgery: Austin Medical Health Center. March 2010.
Austin, Minnesota. USA
17. *Educational You Tube Video.* Minimally Invasive Surgery in Neonates. 2009.
18. *Educational You Tube Video.* Gastroesophageal Reflux in children. 2009.
19. *Educational You Tube Video.* Bariatric Surgery in Adolescents. 2013.
20. *Educational You Tube Video.* Median Arcuate Ligament Syndrome. 2013.
21. *Education Program Director, Sudanese Pediatric Surgery Fellowship*
 - a. Facilitated the establishment of a new two-year fellowship (Diplomate) curriculum and program in Sudan. First graduating class was February 2012.
 - b. This, in my opinion, is probably the most significant contribution I have made so far. We literally doubled the number of pediatric surgeons in Sudan through this pediatric surgical fellowship.

22. *Team Leader*, Sudanese Volunteer Pediatric Surgery.
 - a. September 2008
 - b. May, June July 2009
 - c. December 2009
 - d. January 2010
 - e. July 2011
 - f. November, December 2011
 - g. February, March 2012
 - h. I have performed over 100 procedures during these visits
23. Lecture: Safety in Pediatric Car Accidents. Mankato Emergency medical Services Appreciation Day. March 2012. Mankato, Minnesota. USA
24. *Team Leader*, Volunteer Surgical Trip to Gaza, Palestinian Territories.
 - a. September 2011
 - b. 35 procedures performed
 - c. Two surgeons from Gaza came to Mayo Clinic as observers August to November 2012
 - d. October 2013
25. *Team Leader*, Volunteer Surgical Trip to Nablus, West Bank, Palestinian Territories
 - a. November 2012
 - b. 32 procedures performed
26. *Team Leader*, Volunteer Surgical Trip to Utmeh and Idlib, Syria.
 - a. November 2012
 - b. Trauma course given
 - c. Multiple active traumas (war-zone)
27. Neonatal Laparoscopic Surgery. Sudanese Association of Paediatric Surgeons – 1st Annual Meeting. Feb 2012. Khartoum, Sudan
28. Lecture: Friday Simulation Center Educational Series: Laparoscopic Appendectomy. March 2012
29. Congenital Abdominal Wall Defects Education Program. Sudanese Association of Paediatric Surgeons – 1st Annual Meeting. February 2012. Khartoum, Sudan
30. Lecture: Friday Simulation Center Educational Series: Laparoscopic Cholecystectomy. April 2012
31. Abdominal Compartment Syndrome: Pediatric Intensive Care Unit Development Days. Mayo Clinic. September 2012. Rochester, Minnesota. USA

32. Our First Open Fetal Surgery Case at Mayo Clinic: Board of Trustees Annual General Meeting. Mayo Clinic. September 2012. Rochester, Minnesota. USA
33. Fetal Surgery at Mayo Clinic: Department of Surgery Allied Health Staff Conference. Mayo Clinic. September 2012. Rochester, Minnesota. USA
34. Advanced Trauma Life Support (ATLS) Course Instructor (Full Day): 8th Edition May 23-24, 2012. Mankato, MN
 - a. Gave lectures on Pediatric Trauma.
 - b. Lead the skills station for initial assessment skills station (practical).
 - c. Assessed (as examiner) students during the moulage practical skills session
35. Advanced Trauma Life Support (ATLS) Course: 9th Edition January 3rd-4th, 2013 Rochester, MN
 - a. Gave lectures on Pediatric Trauma
 - b. Lead the skills station for shock management.
 - c. Assessed students during the moulage practical skills session
36. Sudanese American Medical Association (SAMA): 2nd Annual Meeting, September 2011. More than 100 attendees.
 - a. Lecture: What it takes to match
 - b. Lecture: What we look for in an applicant
 - c. Lecture: How to successfully interview
 - d. Mock Interview: over 20 applicants
37. Sudanese American Medical Association (SAMA): 3rd Annual Meeting, September 2012. More than 150 attendees.
 - a. Lecture: What it takes to match
 - b. Lecture: What we look for in an applicant
 - c. Lecture: How to successfully interview
 - d. Mock Interview: over 30 applicants
38. Pediatric Surgery Friday Morning Conference: Weekly. 2008 to present
 - a. Pediatric Surgery Faculty Lecture
 - b. Pediatric Radiology-Surgery Lecture
 - c. Pediatric Gastroenterology-Surgery
 - d. Resident Lecture
39. **Assistant Program Director**, Department of General Surgery. Assistant Program Director for Preliminary Surgery: General Surgery. January 2013 until April 2014.
40. Fetal Surgery at Mayo Clinic: Department of Surgery Conference. Mayo Clinic. January 2013. Rochester, Minnesota. USA

41. Fetal Surgery at Mayo Clinic: Division of Pediatric Surgery Conference, Department of Surgery. Mayo Clinic. February 2013. Rochester, Minnesota. USA
42. Online Sudanese American Medical Association (SAMA) e-clinic educational cases. 05/2010. <http://sama-sd.org/sama-e-clinic/image-5>
43. Pediatric Trauma Simulation. Quarterly exercise with Adult Emergency Department practitioners, Pediatric Emergency Department practitioners, Adult Trauma practitioners and Pediatric Trauma practitioners of a critically injured child. 2011 to present
44. Lecture, High School Career Choices. STEM Academy. March 2013. Rochester, Minnesota. USA
45. Fetal Surgery at Mayo Clinic: Surgery Intern Educational Conference: Mayo Clinic. March 2013. Rochester, Minnesota. USA
46. Simulation based learning. Teaching on fetal bovine tissue on a 3-Dimensional model how to perform neonatal laparoscopy. 22nd Annual Congress International Pediatric Endosurgery Group (IPEG) June 2013. Beijing, China
47. Just a G-tube. Physical Therapy and Rehabilitation Lecture. Mayo Clinic School of Medicine. February 10, 2014
48. Fetal Surgery: the future. Nursing Grand Rounds. Mayo Clinic School of Medicine. March 13, 2014
49. Anatomy Laboratory: Mayo Clinic Department of Surgery. Annual course. Dissection and lecture on cadaveric anatomy: abdominal wall
50. *Pediatric Laparoscopic Surgery Course.*
 - a. Director/Leader: I organized the entire program and curriculum along with our local Surgeon Professor Abdelbasit Ali.
 - b. November 2015. Khartoum, Sudan
 - c. **This coincided with the second Sudanese Association of Paediatric Surgeons meeting.** This course involved lectures, for a half day session, simulation for a half day session and two operative days with three operating rooms. Pediatric surgery leaders from Egypt (Essam El-Halaby) and local Sudanese Surgeons (Abdelbasit Ali) lead an operative room with me.
51. Weill Cornell Medical School-Qatar. Monthly Teaching Surgical Clerkship:
 - a. April 2014 until present (2017) excluding vacations
 - b. Bariatric Surgery and the Metabolic Syndrome
 - c. Inflammatory Bowel Disease and Colorectal Surgery
 - d. Surgical Management of Breast Cancer

- e. Pediatric Surgery
 - f. The Acute Abdomen
52. Hamad General Hospital, Hamad Medical Corporation – Weekly Professor of Surgery Bedside Teaching Rounds
- a. April 2014 until present excluding vacations
 - b. 8AM until 11AM
53. Simulation based learning. February, March, April 2016. Pediatric Surgery General and Thoracic Surgery Clinics

Mentorship

1. Sami Taha
 - a. Hospitalist, Sidra Medicine 2019
 - b. Current Fellow Pediatric Surgery
 - c. **Description:** Career Development,
 - d. **Outcome:** Advanced Surgical Skill Set
2. Saleem Mammoo
 - a. Fellow, Sidra Medicine 2017
 - b. Current Fellow Pediatric Surgery
 - c. **Description:** Career Development,
 - d. **Outcome:** Advanced Surgical Skill Set
3. Muthanna AlSalihi
 - a. Specialist Pediatric Surgery , Sidra Medicine 2015
 - b. Current Fellow Pediatric Surgery
 - c. **Description:** Career Development,
 - d. **Outcome:** Advanced Surgical Skill Set
 - e.
4. Mohammed Almojtabah Ibrahim
 - a. Hospitalist, Sidra Medicine 2017
 - b. Current Fellow Pediatric Surgery
 - c. **Description:** Career Development,
 - d. **Outcome:** Advanced Surgical Skill Set
5. Suha Tewfik
 - a. Hospitalist, Sidra Medicine 2017
 - b. Current Fellow Pediatric Surgery
 - c. **Description:** Career Development,
 - d. **Outcome:** Advanced Surgical Skill Set
6. Saad Musa
 - a. Hospitalist, Sidra Medicine 2017

- b. Current Fellow Pediatric Surgery
 - c. **Description:** Career Development,
 - d. **Outcome:** Advanced Surgical Skill Set

7. Abubakr Elawad
 - a. Fellow, Sidra Medicine 2017
 - b. Current Fellow Pediatric Surgery
 - c. **Description:** Career Development,
 - d. **Outcome:** Advanced Surgical Skill Set

8. Noora Al-Shahwani
 - a. Qatari National. Weill Cornell Medical University-Qatar graduate 2011
 - b. Current Pediatric Surgery Residency at Hamad Medical
 - c. **Description:** Career Development, Research Endeavors
 - d. **Outcome:** Manuscript in progress. Neonatal Ovarian Cyst Outcome in Qatar
 - e. **Outcome:** APSA American Pediatric Surgery Association resident membership
 - f. **Outcome:** Pediatric Surgery Fellowship application to Canada and USA

9. Amer Elsaied
 - a. Weill Cornell Medical University-Qatar graduate 2010
 - b. Current Pediatric Surgery Residency at Hamad Medical
 - c. Career Development, Research Endeavors
 - d. **Outcome:** Pediatric Surgery Fellowship application to Canada and USA

10. Mohamed I Mohamed
 - a. Research trainee in Department of Surgery with Abdalla E Zarroug
 - b. Mayo Clinic, Rochester, MN
 - c. **Description:** Career Development, Educational endeavors
 - d. **Previous Status:** University of Khartoum, Faculty of Medicine 2010
 - e. **Outcome:** General Surgery Preliminary Residency position in 2014-2015.
Accepted Manuscripts, Abstracts and Posters

11. Mohamed Shuaib
 - a. Research trainee in Department of Neurosurgery with Ahmad Nassr MD
 - b. Mayo Clinic, Rochester, MN
 - c. **Description:** Career Development, Educational endeavors
 - d. **Previous Status:** University of Khartoum, Faculty of Medicine 2007
 - e. **Outcome:** Internal Medicine Residency position in 2014-2015

12. Mohamed I. Abulaziz
 - a. Research trainee in Department of Neurosurgery with Michelle Clarke
 - b. Mayo Clinic, Rochester, MN
 - c. **Description:** Career Development, Educational endeavors
 - d. **Previous Status:** University of Khartoum, Faculty of Medicine 2009
 - e. **Outcome:** Internal Medicine Residency position in 2014-2015

13. Amrou Ali Idris
 - a. Research trainee in Department of Surgery, Ophthalmology with Sophie Bakri
 - b. Mayo Clinic, Rochester, MN
 - c. **Description:** Career Development, Educational endeavors
 - d. **Previous Status:** University of Khartoum, Faculty of Medicine 2009
 - e. **Outcome:** Internal Medicine Residency position in 2014-2015

14. Amani O. Mohamed
 - a. Research trainee in Department of Surgery, Center for the Science of Health Care Delivery and Research.
 - b. Mayo Clinic, Rochester, MN
 - c. **Description:** Career Development, Educational endeavors
 - d. **Previous Status:** University of Khartoum, Faculty of Medicine 2009
 - e. **Outcome:** Preliminary Surgery Resident Mayo Clinic Rochester 2014-2015

15. Ahmed, Ayman
 - a. Preliminary Surgery Resident Mayo Clinic Rochester 2011-2012
 - b. **Description:** Career Development, Educational endeavors
 - c. **Previous Status:** University of Minnesota Preliminary Resident PGY2
 - d. **Outcome:** UCSF categorical surgical resident starting 7/2014 as PGY3

16. Shunya Takada
 - a. Medical Student Jutendo Medical School. Japan
 - b. **Description:** Clinical internship in Pediatric Surgery
 - c. **Outcome:** Pediatric General Surgery Residency in 2015 in Jutendo, Japan with Dr. Yamatoka.

17. Mohammed, Diaaeldin
 - a. Pediatric Surgery (Fellow) Diplomate in Sudan. 2010-2012
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** General Pediatric Surgeon, Medani, Sudan
 - d. **Outcomes:** Graduate of newly established pediatric surgical fellowship in Sudan
 - e. **Outcome:** Visiting Clinical Observer to Mayo Clinic Pediatric Surgery October 2013 and February 2014

18. Farah, Wigdan
 - a. Visiting Physician 2/2013
 - b. **Description:** Career Development

19. Gasim, Alla
 - a. Visiting Physician 2/2013
 - b. **Description:** Career Development

20. Mohammed Ahmed, Wafaa
 - a. Visiting Physician 3/2013
 - b. **Description:** Career Development

21. Kambal, Sahar Osman
 - a. Visiting Physician 3/2013
 - b. **Description:** Career Development,

22. Alkhebel, Antar
 - a. Pediatric Surgery in Training in Gaza, Palestinian Territories. 2011-2012
 - b. **Description:** Career Development, Educational Endeavors
 - c. **Current Status:** General Pediatric Surgeon, Medani, Sudan
 - d. **Outcomes:** Newly Appointed to European Gaza Hospital

23. Zeidan, Moiz
 - a. Pediatric Surgery Research Assistant 2012
 - b. **Description:** Career Development, Educational endeavors, Research
 - c. **Outcomes:** Multiple Posters, Abstracts Presented. Manuscripts in press

24. Ibrahim, Khalid
 - a. Pediatric Surgery Research Assistant 2012
 - b. **Description:** Career Development, Educational endeavors, Research
 - c. **Current Status:** General Surgery Registrar (Senior Resident) in Khartoum, Sudan
 - d. **Outcomes:** Multiple Posters, Abstracts Presented. Manuscripts in press

25. Ibtehal Ahmed
 - a. Visiting Physician 2013
 - b. **Description:** Career Development

26. Gibreel, Waleed
 - a. **Previous Status:** Pediatric Surgery Research Assistant 2013-14 with **Dr. Abdalla E Zarroug**
 - b. **Description:** Career Development, Educational Endeavors, Research
 - c. **Outcomes:** Multiple Posters, Abstracts Presented. Manuscript Submission and Categorical General Surgery Residency position starting 7/2014

27. Almassry, Mohammed
 - a. Pediatric Surgery in Training in Gaza, Palestinian Territories. 2011-2012
 - b. **Description:** Career Development, Educational Endeavors
 - c. **Current Status:** General Pediatric Surgeon, European Gaza Hospital
 - d. **Outcomes:** Appointed to European Gaza Hospital

28. Antiel, Ryan
 - a. Mayo Medical Student 2007 - 2012
 - b. **Description:** Career Development, Educational Endeavors
 - c. **Current Status:** General Surgery Residency. Mayo Clinic Rochester.
 - d. **Outcomes:** Multiple Posters and Presentations. Manuscript submission.
29. Elsheima, Hamad
 - a. Visiting Medical Student 2012
 - b. **Description:** Career Development
 - c. **Current Status:** Medical Officer (Resident). Manchester, England
30. Elamin, Sami
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
31. Mohamed, Omnia
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
32. Alzaghal, Enas
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
 - c. **Current Status:** Internal Medicine Residency. University of Arizona.
33. Elhaj, Amal
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
34. Musa, Abdullahi
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
35. Abdellatif, Shahna
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
36. Ahmed, Marwa
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
37. Ahmed, Suhaur
 - a. Visiting Physician 2012
 - b. **Description:** Career Development
38. Taha, Ahmed

- a. Visiting Physician 2012
 - b. **Description:** Career Development
39. Awadalla, Eslam
- a. Visiting Physician 2012
 - b. **Description:** Career Development
40. Ahmed, Akram
- a. Visiting Physician 2012
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** Teaching Assistant. Ross University Medical School
41. Mohamed, Tahagod
- a. Visiting Physician 2012
 - b. **Description:** Career Development
42. Mohammed, Azza
- a. Visiting Physician 2012
 - b. **Description:** Career Development
43. Ahmed, Mohamed
- a. Visiting Physician 2012
 - b. **Description:** Career Development
44. Ali, Nihal
- a. Visiting Physician 2012
 - b. **Description:** Career Development
45. Norui, Rashda
- a. Visiting Physician 2012
 - b. **Description:** Career Development
46. El-Khatib, Moustafa
- a. Visiting Physician 2012
 - b. **Description:** Career Development
47. Ahmed, Atka
- a. Visiting Physician 2012
 - b. **Description:** Career Development
48. Ahmed, Tamer
- a. Visiting Physician 2012
 - b. **Description:** Career Development
49. Elhilali, Osama

- a. Visiting Physician 2012
 - b. **Description:** Career Development
50. Ahmed , Suhair
- a. Visiting Physician 2012
 - b. **Description:** Career Development
51. Elhassan, Hind
- a. Visiting Physician 2012
 - b. **Description:** Career Development
52. Elmufti, Hussein
- a. Visiting Physician 2012
 - b. **Description:** Career Development
53. Obaid, Suhaib
- a. Visiting Physician 2012
 - b. **Description:** Career Development
54. Subeir, Ober
- a. Visiting Physician 2012
 - b. **Description:** Career Development
55. Abdelfatah, Mohamed
- a. Visiting Physician 2011
 - b. **Description:** Career Development
56. Elbashir, Assad
- a. Visiting Physician 2011
 - b. **Description:** Career Development
57. Ali, Ali
- a. Visiting Physician 2011
 - b. **Description:** Career Development
58. Fadlelmawla, Babiker
- a. Visiting Physician 2011
 - b. **Description:** Career Development
59. Ahmed, Nesreen
- a. Visiting Physician 2011
 - b. **Description:** Career Development
60. Elamin, Dalia
- a. Visiting Physician 2011

- b. **Description:** Career Development
- 61. Elkhidir, Sabri
 - a. Visiting Physician 2011
 - b. **Description:** Career Development
- 62. Mohamed, Shaza
 - a. Visiting Physician 2011
 - b. **Description:** Career Development
- 63. Osman, Mohamed
 - a. Visiting Physician 2011
 - b. **Description:** Career Development
- 64. Tamin, Abu-Bekr
 - a. Visiting Physician 2011
 - b. **Description:** Career Development
- 65. Haq, Zeeshan
 - a. Undergraduate Student 2010
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** University of Wisconsin Medical School
- 66. Liying, Low
 - a. Visiting Medical Student 2010
 - b. **Description:** Career Development, Educational endeavors
 - c. **Outcomes:** Educational Pamphlet “How to Survive Pediatric Surgical Rotation”
- 67. Ahmed, Adil
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
- 68. Ali, Osama
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
- 69. Almubarak, Renas
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
 - c. **Current Status:** University of Minnesota. Department of Pediatrics
- 70. Elraiyah, Tarig
 - a. Visiting Physician 2010
 - b. **Description:** Career Development, Educational endeavors

- c. **Current Status:** Research Fellow. Department of Statistics. Mayo Clinic Rochester
71. Saad, Ahmed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** Research Fellow. Critical Care. Mayo Clinic Rochester
72. Satty, Satty
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
73. Shibeika, Dalia Visiting Physician 2010
 - a. Visiting Physician 2010
 - b. **Description:** Career Development, Educational endeavors
74. Helmy, Mohammed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
75. Alsara, Osama
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
76. Ahmed, Ahmed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
77. Aly, Abdelrahman
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
 - c. **Outcome:** Internal Medicine Residency: University of Missouri. Kansas City, Missouri
78. Elhelmy, Mohammed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
79. Fageer, Ahmed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
80. Hilal, Iman
 - a. Visiting Physician 2010

- b. **Description:** Career Development
81. Tawfik, Ahmed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** Research Fellow. Psychiatry. Mayo Clinic Rochester
 82. Bella, Gasim
 - a. Visiting Undergraduate Student 2009
 - b. **Description:** Career Development
 - c. **Current Status:** Ross Medical School
 83. Algendy, Abdalraham
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
 - c. **Current Status:** Anesthesia Residency, Medical University of South Carolina
 84. Montaser, Ahmed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
 85. Younis, Mohamed
 - a. Visiting Physician 2010
 - b. **Description:** Career Development
 86. Elamin, Mohamed
 - a. Visiting Physician 2009
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** Internal Medicine Residency. University Of Texas.
 87. Elshiekh, Mohanad
 - a. Visiting Physician 2009
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** Preliminary Surgery Residency. Methodist Hospital New York.
 88. Hilal, Iman
 - a. **Description:** Career Development
 89. Mahmoud, Mohamed
 - a. Visiting Physician 2009
 - b. **Description:** Career Development
 90. Saeed, Ahmed
 - a. Visiting Physician 2009

- b. **Description:** Career Development
91. Mochama, Pauline Visiting Student 2009
- a. Visiting Physician 2009
 - b. **Description:** Career Development, Educational endeavors
92. Ali, Osama
- a. Visiting Physician 2009
 - b. **Description:** Career Development
93. Hashim, Yassar
- a. Visiting Physician 2009
 - b. **Description:** Career Development, Educational endeavors
 - c. **Current Status:** Preliminary Surgery Resident
94. Tageldin Hassan, Alla
- a. Visiting Undergraduate Student 2009
 - b. **Description:** Career Development, Educational endeavors
95. Hager, Farouk
- a. Visiting Physician 2009
 - b. **Description:** Career Development
96. Raaj, Ruparel
- a. Research Trainee 2012-2013
 - b. **Description:** Career Development, Research
 - c. **Outcome:** Oral presentations and manuscripts
97. Gaseema, Aalaa
- a. Visiting Medical Student 2009
 - b. **Description:** Career Development
 - c. **Outcome:** Ross University School of Medical. West Indies