

Curriculum Vitae

NAME: NATHAN M. NOVOTNY, MD, FACS

WORK ADDRESS: 3535 W. 13 Mile Rd. Suite 307
Royal Oak, MI 48073, USA

EDUCATION:

Undergraduate

1995-1998 Kentucky Wesleyan College, Owensboro, KY, USA; BS (Chemistry and Biology)

Graduate

2000-2004 University of Kentucky, Lexington, KY, USA; MD

Post Graduate Training

2004-2005 Internship in Surgery, Indiana University, Indianapolis, IN, USA
2005-2006 Residency in Adult General Surgery, Indiana University, Indianapolis, IN, USA
2006-2008 Research Fellowship, Indiana University, Indianapolis, IN, USA
2008-2011 Residency in Adult General Surgery, Indiana University, Indianapolis, IN, USA
2011-2013 Fellowship in Pediatric Surgery, Vanderbilt University, Nashville, TN, USA

MEDICAL LICENSURE:

Active: Michigan, Indiana, Pennsylvania
Inactive: Tennessee, Kenya, Jordan

BOARD CERTIFICATIONS:

American Board of Surgery in Adult and Pediatric Surgery (exp. 2022 and 2024, respectively)

ACADEMIC APPOINTMENTS:

2016-2018 Assistant Professor of Surgery, Jordan University of Science and Technology, King Abdullah University Hospital, Irbid, Jordan
2013- Assistant Professor of Surgery, Oakland University William Beaumont School of Medicine, Royal Oak, MI, USA
2013- Director of Regional and International Outreach, Oakland University William Beaumont School of Medicine, Department of Surgery

WORK HISTORY:

2016-2018 Faculty Surgeon, King Abdullah University Hospital, Ramtha, Jordan
2013- Faculty Surgeon, Beaumont Children's, Royal Oak, MI, USA

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GLOBAL HEALTH:

Medical Relief Work:

2001	Dominican Republic
2004	Gabon
2009	India*
2011	Vietnam*
2012	Kenya*, Libya
2014	Uganda (2)*, Kenya*, Gaza*
2015	West Bank (2)*, Jordan (2)*, Egypt*, Uganda*
2016	West Bank (3)*, Gaza (2)*, Jordan*
2017	West Bank (3)*, Jordan*, Gaza*
2018	West Bank*

* Included mentoring of residents, medical students, mid level providers, and/or overseas faculty

GRANTS AND HONORS:

1996	Howard Hughes Medical Initiative Grant, University of Kentucky
1996-98	Trustee Scholarship, Kentucky Wesleyan College
2002-04	Beale Academic Scholarship, University of Kentucky School of Medicine
2006	Merilyn Hester Scholarship for Oncology Research, Walther Cancer Institute
2006-08	A.N.N.A. Foundation Grant, Indianapolis, IN, USA
2011	Surgical Socrates Award, Indiana University
2015	Hour Detroit's 'Top Docs'
2016	Dr. Musa & Suhaila Nasir Humanitarian Award, Palestine Children's Relief Fund, Detroit, MI, USA
2016	Hour Detroit's 'Top Docs'
2017	Honorary Member Syrian American Medical Association
2017	American College of Surgeons/Pfizer Surgical Humanitarian Award Nominee
2017	Hour Detroit's 'Top Docs'
2018	1 st Place Quality Improvement, Patient Safety, and Health Disparities Podium Award, Beaumont Health

PROFESSIONAL ACTIVITIES:

INTRAMURAL

Indiana University

2004 – 2011	Medical Student Mentoring Program, Indiana University School of Medicine, Indianapolis, IN, USA
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Beaumont Children's

2013 – 2016	Pediatric Intensive Care Unit Quality Improvement Committee Member, Beaumont Health, Royal Oak, MI, USA
2013 – 2016	Medical Student Lecture Coordinator, Beaumont Hospital, Royal Oak, MI
2016 – 2017	Functional liaison between Oakland University William Beaumont School of Medicine and Jordan University of Science and Technology
2018	Judge for 48 th Annual Beaumont Resident and Fellow Research Forum
2013 – Pres	Clinical Competency (Resident Review) Committee Member, Beaumont General Surgery Residency, Beaumont Health, Royal Oak, MI, USA
2013 – Pres	Pediatric Trauma Quality Improvement Committee Member, Beaumont Children's Hospital, Royal Oak, MI, USA

PROFESSIONAL ACTIVITIES, cont:

EXTRAMURAL

National and International Society Committees

2015 – Pres	Global Pediatric Surgery Committee, American Pediatric Surgical Association
2014 – Pres	Pediatrics Committee, Society of American Gastrointestinal and Endoscopic Surgeons
2015 – Pres	Pan African Academy of Christian Surgeons Pediatric Surgery Council Member, Fayetteville, NC, USA
2017 – Pres	Palestinian American Medical Association Pediatric Surgery Review Committee Member, Kansas City, USA

Other Academic Service

2008-2017	Editorial Board Member, <i>Journal of Surgical Research</i>
2016	Course Instructor, IPEG’s Master MIS Class, Fukuoka, Japan
2016	Director, Basic Laparoscopy Course, Al Shifa Hospital, Gaza
2017	Director, Basic Laparoscopy Course, King Abdullah University Hospital, Ramtha, Jordan
2017	Course Instructor, IPEG’s Master MIS Class, London, England
2018	Program Committee, 2018 IPEG, Seattle, WA, USA
2018	Co-moderator Scientific Session: Misc, 2018 IPEG, Seattle, WA, USA
2019	Program Committee, 2019 IPEG, Santiago, Chile
2018 – Pres	Lead Investigator Global PaedSurg, London, England (www.globalpaedsurg.org)
2018 – Pres	Country Lead (Palestine) Global PaedSurg, London, England

Journal Reviewer (Ad-Hoc)

J Pediatr Surg, J Surg Res, J Laparoendosc Adv Surg Tech, Eur J Pediatr Surg, BMJ Case Rep

TEACHING ACTIVITIES AND INVITED LECTURES:

2014 Feb	Pediatric Trauma – The Nursing Difference; PICU, Beaumont Children’s Hospital
2014 May	Sustainability in International Medicine and Surgery; Pediatric Grand Rounds, Beaumont Children’s Hospital
2014 June	Sustainability in Global Health; Surgery Grand Rounds, Beaumont Hospital, Royal Oak, MI, USA
2015 May	Adults Are Not Just Big Kids – Pediatric Trauma; Multidisciplinary Grand Rounds, St. Mary’s Hospital, Saginaw, MI, USA
2015 June	Common Problems in Pediatric Surgery; Family Medicine Grand Rounds Beaumont Hospital, Sterling Heights, MI, USA
2015 July	Neonatal and Childhood Emergencies, Multidisciplinary Grand Rounds Harpur Memorial Hospital, Menouf, Egypt
2015 August	Beginning a Career in Global Health, Christian Medical and Dental Association, Oakland University William Beaumont School of Medicine, Rochester, MI, USA
2015 November	Faith in Medicine Panelist, Diversity Council, Oakland University William Beaumont School of Medicine, Rochester, MI, USA
2015 December	Health and Environment Session Panelist, Leadership Oakland, Royal Oak, MI, USA
2016 February	Sustainability in Short Term Medical Missions, 5 th Annual Syrian American Medical Society National Conference, Orlando, FL, USA
2016 April	Educational Value in International Exchange Programs, 8 th International Medical Conference, Irbid, Jordan

TEACHING ACTIVITIES AND INVITED LECTURES, cont:

2016 April	Advances in Pediatric Minimally Invasive Surgery, 8 th International Medical Conference, Irbid, Jordan
2016 May	Pediatric War-Related Trauma, 19 th Annual Contemporary Issues in Trauma Nursing, Sterling Heights, MI, USA
2016 June	Don't Waste Your Life, Michigan State University Christian Medical and Dental Association, Macomb County, MI, USA
2017 September	Innovations in Pediatric Surgery, Jordanian Chapter of the American College of Surgeons, Amman, Jordan
2017 September	Minimally Invasive Surgery in Children: Innovations and Advances, 10 th Conference of the Jordanian Association of Urologic Surgeons, Amman, Jordan
2018 March	Faith in Medicine Panelist, OUWB Christian Medical and Dental Association, Rochester, MI, USA
2018 April	The State of Surgical Education in Jordan and the Future State of Pediatric Surgical Education in the West Bank and Gaza, Surgery Grand Rounds, Beaumont Health, Royal Oak, MI, USA
2018 May	The Laparoscopic Circumcision (and other pursuits) Surgery Grand Rounds, Beaumont Health, Royal Oak, MI, USA
2018 June	If Nothing Ever Changes, Nothing Ever Changes: The Leading Edge of Pediatric Surgery, Surgery Grand Rounds, Henry Ford Macomb, Macomb, MI, USA

PROFESSIONAL SOCIETIES (elected*):

Society of American Gastrointestinal and Endoscopic Surgeons, Member	2008
Association of Academic Surgeons, Member*	2008
American College of Surgeons, Fellow*	2013
American Pediatric Surgical Association, Member*	2013
H. William Scott, Jr. Society, Member	2013
International Pediatric Endosurgery Group, Member*	2015
Syrian American Medical Society, Honorary Membership*	2017

PUBLICATIONS:

1. Pfennig B, J Cohen, I Sosnowski, **NM Novotny**, D Ho. Synthesis, Characterization, and Intervalence Charge Transfer Properties of a Series of Rhenium(I)-Iron(III) Mixed-Valence Compounds. *Inorg Chem.* 38(3): 606-612, 1999.
2. **Novotny, NM**, SG Mattar, ME Falimirski. Roux Limb Volvulus After Long-Limb Roux-en-Y Gastric Bypass. *Obes Surg*, Nov:17(12):1523-4, 2007.
3. KD Mattix, **NM Novotny**, A Shelley, FJ Rescorla. Malone Antegrade Continence Enema (MACE) for Fecal Incontinence in Imperforate Anus Improves Quality of Life. *Pediatr Surg Int*, Dec;23(12):1175-1177, 2007.
4. **Novotny NM**, JL Grosfeld, KE Turner, FJ Rescorla, X Pu, JE Klaunig, RJ Hickey, LH Malkas, JA Sandoval. Oxidative Status in Neuroblastoma: A Source of Stress? *J Pediatr Surg*, Feb:43(2):330-4, 2008.
5. Ray R, **NM Novotny**, PR Crisostomo, T Lahm, A Abarbanell, DR Meldrum. Sex Steroids and Stem Cell Function. *Mol Med*, Jul-Aug;14(7-8):493-501, 2008.
6. Lahm T, Crisostomo PR, Markel TA, Wang M, Weil BR, **Novotny NM**, Meldrum DR. The Effects of Estrogen on Pulmonary Artery Vasoreactivity and Hypoxic Pulmonary Vasoconstriction: Potential New Clinical Applications for an Old Hormone, *Crit Care Med*; Jul;36(7):2174-83, 2008.

PUBLICATIONS, CONT.

7. **Novotny NM**, TA Markel, PR Crisostomo, DR Meldrum. Differential IL-6 and VEGF Production in Adult and Neonatal Mesenchymal Stem Cells: Role of NFkB. *Cytokine*, Aug;43(2):215-9, 2008.
8. **Novotny NM**. Surgical Research: A Review. *J Surg Res*, Aug;148(2):272-273, 2008.
9. **Novotny NM**, R Ray, TA Markel, PR Crisostomo, M Wang, Y Wang, DR Meldrum. Stem Cell Therapy in Myocardial Repair and Remodeling. *J Am Coll Surg*, Sept;207(3):423-34, 2008.
10. Wang Y, PR Crisostomo, M Wang, TA Markel, **NM Novotny**, DR Meldrum. TGF-alpha Increases Human Mesenchymal Stem Cell-Secreted VEGF by MEK and PI-3K, but not JNK or ERK, Dependent Mechanisms. *Am J Physiol Regulatory*, Oct;295(4):R1115-23, 2008.
11. Markel TA, PR Crisostomo, M Wang, Y Wang, T Lahm, **NM Novotny**, J Tan, DR Meldrum. TNFR1 Signalling Resistance Associated with Female Stem Cell Cytokine Production is Independent of TNFR2 Mediated Pathways. *Am J Physiol Regulatory*, Oct;295(4):R1115-23, 2008.
12. Markel TA, Crisostomo PR, **Novotny NM**, Lahm T, Rescorla FJ, Tector AJ, Meldrum DR. The Potential of Stem Cells for Pediatric Intestinal Disorders. *J Pediatr Surg*, Nov;43(11):1953-63, 2008.
13. **Novotny NM**, MJS Mann, FJ Rescorla. Fistula *in ano*: Who Recurs? *Pediatr Surg Int*, Nov;24(11):1197-9, 2008.
14. Markel TA, Wang Y, Hermann JL, Crisostomo PR, Wang M, **Novotny NM**, Herring CM, Tan J, Lahm T, Meldrum DR. VEGF Is Critical for Stem Cell Mediated Cardioprotection and a Crucial Paracrine Factor for Defining the Age Threshold in Adult and Neonatal Stem Cell Function. *AJP-Heart & Circ Phys*, Dec;295(6):H2308-14, 2008.
15. **Novotny NM**, AL Jester, AP Ladd. Preoperative Prediction of Need for Fundoplication Prior to Gastrostomy Tube Placement. *J Pediatr Surg*, Jan ;44(1):173-7, 2009..
16. **Novotny NM**. Principles and Practice of Clinical Research – A Review: *J Surg Res*, Jan;151(1):171-2, 2009.
17. **Novotny NM**, T Lahm, TA Markel, PR Crisostomo, DR Meldrum. Beta blockers in Sepsis: Re-examining the Evidence. *Shock*, Feb;31(2):113-9, 2009.
18. Markel TA, PR Crisostomo, MC Manukyan, D Al-Azzawi, CM Herring, T Lahm, **NM Novotny**, DR Meldrum. Are Neonatal Stem Cells as Effective as Adult Stem Cells in Providing Ischemic Protection? *J Surg Res*, Apr;152(2):325-30, 2008.
19. **Novotny NM**, T Lahm, TA Markel, PR Crisostomo, M Wang, Y Wang, J Tan, DR Meldrum. Angiotensin in the Treatment of Ischemia and Sepsis. *Shock*, Apr;31(4):335-41, 2009.
20. **Novotny NM**. Sabiston Textbook of Surgery – A Review. *J Surg Res*, Mar;152(1):173-4, 2009.
21. **Novotny NM**, Vegeler RC, Breckler FD, Rescorla FJ. Percutaneous Endoscopic Gastrostomy Buttons in Children: Superior to Tubes. *J Pediatr Surg*, Jun;44(6):1193-6, 2009.

PUBLICATIONS. CONT.

22. Wang Y, M Wang, AM Abarbanell, BR Weil, JL Herrmann, J Tan, **NM Novotny**, AC Coffey, DR Meldrum. MEK Mediates the Novel Cross Talk Between TNFR2 and TGF-EGFR in Enhancing Vascular Endothelial Growth Gactor (VEGF) Secretion From Human Mesenchymal Stem Cells. *Surgery*, Aug;146(2):198-205, 2009.
23. **Novotny NM**. Estrogen in Abdominal Aortic Aneurysms: Potential for Therapy. *J Surg Res*, Aug;155(2):181-2, 2009.
24. **Novotny NM**, KD Lillemoe, ME Falimirski. Barium Appendicitis after Upper Gastrointestinal Imaging. *J Emerg Med*, Feb;38(2):148-9, 2010.
25. **Novotny NM**, AL Jester, ME Falimirski, Rectus Sheath Pressure as a Novel Diagnostic Adjunct for Abdominal Compartment Syndrome. *J Surg Res*, Jun 15;161(2):235-6, 2010.
26. Dicken BJ, **NM Novotny**, FD Breckler, JP Yim, FJ Rescorla. Use of the Hunt-Lawrence Pouch in Congenital Microgastria – A Report of 2 Cases. *J Ped Surg*, Nov; 45(11):2238-40, 2010.
27. Ladd AP, FD Breckler, **NM Novotny**. Impact of Primary Omentectomy on Longevity of Peritoneal Dialysis Catheters in Children. *Am J Surg*, Mar; 201(3):401-5, 2011.
28. Tierney JS, **NM Novotny**. Appendectomy in Neutropenic Children: A Safe and Expedient Solution to a Challenging Problem. *J Surg Res*, Nov; 178(1):110-2, 2012.
29. Tan CW, **NM Novotny**, SE Morrow. Laparoscopic Versus Open Pyloromyotomy: An Economic Piece to the Puzzle. *J Surg Res*, Oct; 184(2):798-9, 2013.
30. Lovvorn HN, CM Baron, ME Danko, **NM Novotny**, BT Bucher, KK Johnston, MF Zaritzky. Staged Repair of Esophageal Atresia: Pouch Approximation and Catheter-Based Magnetic Anastomosis. *J Ped Surg Case Reports*, Mar; 2(4):170-5, 2014.
31. Davis J, **N Novotny**, J Macknis, Z Alpay-Savasan, LF Goncalves. Diagnosis of Neonatal Neuroblastoma with Postmortem Magnetic Resonance Imaging. *Radiol Case Rep*, Mar; 12(1):191-195, 2017.
32. **Novotny NM**, MC Puentes, R Leopold, M Ortega, J Godoy-Lenz. The Burnia: Laparoscopic Sutureless Inguinal Hernia Repair in Girls. *J Laparoendosc Adv Surg Tech*, Apr; 27(4):430-3, 2017.
33. Shaffer K, EE Abbott, **N Novotny**. Delayed Presentation of Rare-Earth Magnets. *J Paediatr Child Health*, May; 53(5):515-6, 2017.
34. Hamouri S, **NM Novotny**. Primary Tracheal Schwannoma a Review of a Rare Entity: Current Understanding of Management and Followup. *J Cardiothorac Surg*, Nov; 12(1):105, 2017.
35. Abbott E, Chan J, Boura J, **NM Novotny**. In Pursuit of the Most Cost Effective Laparoscopic Appendectomy: The Effect of Disposable Instruments on Operative Time and Surgeon-Controllable Cost. *J Laparoendosc Adv Surg Tech*, Dec; 27(12):1309-13, 2017.
36. Hamouri S, Al Manasra A, Dradkeh H, Hammouri H, Al Zoubi N, **NM Novotny**. Pulmonary Hydatidosis Patterns and Outcomes. *Australasian Med J*,11(2):135-142, 2018.
37. Bataineh Z, **NM Novotny**. A Novel Non-Electrosurgical Technique For Incising the Pylorus in Laparoscopic Pyloromyotomy. *J Laparoendosc Adv Surg Tech*, Feb; 28(2):235-236, 2018.

PUBLICATIONS, CONT.

38. Al-Hadidi A, Nassar I, Amro W, Shaltaf A, **NM Novotny**. Decision Making in Pediatric Persistent Müllerian Duct Syndrome. *Ann of Ped Surg*, Jan; 14(1):24-26, 2018.
39. Johns P, **NM Novotny**. Barbed Sutures in Thoracoscopic Diaphragm Plication. *Videoscopy*, In Press.
40. Hamouri S, Hammouri H, Daradkeh H, Al Manasra A, Al-zoubi N, **NM Novotny**. Finding the Optimal Level and Method for Thoracoscopic Treatment of Primary Palmar Hyperhidrosis. *Jord Med J*, In Press.
41. Hamouri S, Swesi F, **NM Novotny**. Unique Challenges to the Approach and Management of Pediatric Headscarf Pin Aspiration. *J Laparoendosc Adv Surg Tech*, In Press.

PUBLISHED ABSTRACTS:

1. **Novotny NM**, J Urso, J Rawls. Screening for Mutations Causing Failures in the RNA Sorting Mechanism in Spermiogenesis, *Trans KY Acad Sci*, Nov 1996.
2. Markel TA, PR Crisostomo, M Wang, Y Wang, T Lahm, **NM Novotny**, DR Meldrum: How Old is Old Enough: In the Adult Stem Cell Population, Is There an Age Threshold for Optimum Functionality? *Surgical Infections*, Apr;9(2):244, 2008.
3. Lahm T, PR Crisostomo, TA Markel, M Wang, **NM Novotny**, Y Wang, DR Meldrum: Estrogen Receptor-alpha Agonist PPT Attenuates Acute Hypoxic Pulmonary Vasoconstriction (HPV). *Surgical Infections*, Apr;9(2):252, 2008.
4. **Novotny NM**, DA Liesen, AJ Senagore, TZ Hayward, DJ Selzer, RE Pennington, IA Munshi, NJ Zyromski: Can Plain Abdominal X-Ray Predict the Need for Operation in Patients with Adhesive Small Bowel Obstruction? *Gastroenterology*, Apr;134(4 Suppl):889-890, 2008.
5. Lahm T, PR Crisostomo, TA Markel, M Wang, Y Wang, **NM Novotny**, DR Meldrum: Selective Estrogen Receptor Antagonists Attenuate Pulmonary Artery Vasoconstriction By a Nitric Oxide-Dependent Mechanism. *Chest*, 134:25003S, 2008.
6. Crisostomo PR, Y Wang, TA Markel, **NM Novotny**, R Ray, DR Meldrum: Silencing VEGF by short interfering RNA chemical transfection decreases mesenchymal stem cell mediated cardioprotection. *J Am Coll Surg*, Sept;207(3):S26-S27, 2008.
7. Markel TA, PR Crisostomo, **NM Novotny**, Y Wang, R Ray, J Tan, DR Meldrum: Functional differences between adult and neonatal stem cells are abolished by VEGF siRNA. *J Am Coll Surg*, Sept;207(3):S71, 2008.
8. Tan J, PR Crisostomo, TA Markel, **NM Novotny**, Y Wang, DR Meldrum: Targeted Overexpression of IL-18 Binding Protein Enhances Mesenchymal Stem cell Mediated Cardioprotection Against Ischemia/Reperfusion Injury. *J Am Coll Surg*, Sept;207(3):S101, 2008.
9. **Novotny NM**, PR Crisostomo, TA Markel, M Wang, Y Wang, DR Meldrum: Epinephrine's Proinflammatory Stimulation of Mesenchymal Stem Cells. *J Surg Res*, Feb;151(2):283, 2009.
10. **Novotny NM**, MJ Wheeler, SA Todd, GH Rodman, HS Bjerke, TH Pohlman, TZ Hayward, CJ Simons, EW Streib, LE Jacobson, GA Gomez, ME Falimirski: Prospective Analysis of Indications for Abdominal Computed Tomography in Blunt Trauma. *J Surg Res*, Feb;151(2)299, 2009.

PUBLISHED ABSTRACTS, cont:

11. Y Wang, M Wang, **NM Novotny**, A Abarbanell, JL Herrmann, B Weil, DR Meldrum: MEK and TNFR2 Mediate TNF or TGF-Stimulated VEGF Production in Human Mesenchymal Stem Cells. *J Surg Res*, Feb;151(2):268, 2009.
12. Duggan EM, JC Gay, LS Kao, **NM Novotny**, J Tice, ML Blakely. Comparison of Open and Laparoscopic Pyloromyotomy: Are Results from Randomized Controlled Clinical Trials (RCT) Applicable to the “Real World”? *J Surg Res*, 2(186):507, 2014.
13. Bayci A, HN Lovvorn, **NM Novotny**: *Primum Non Nocere* – Ethical Concerns from Procedural Risks in the Global Health Setting. *Annals of Global Health*, Feb;81(1), 16-17, 2015.

AUTHORED BOOK CHAPTERS:

1. Mohammed A, **NM Novotny**: Thoracoscopic Aortopexy. *SAGES Manual of Pediatric Surgery Minimally Invasive Surgery*. Springer. 2016.
2. Barnes W, Hothem Z, **NM Novotny**: Thoracic Sympathectomy. *SAGES Manual of Pediatric Surgery Minimally Invasive Surgery*. Springer. 2016.
3. Legbo J, Ameh E, **NM Novotny**: Necrotizing Fasciitis. Ameh E, ed. *Paediatric Surgery: A Comprehensive Text for Africa*. Global Help. 2017.
4. Kao AM, Muncie CB, **NM Novotny**, Stallion A, Berch B, Shaffer K: Gastrointestinal Hemorrhage. Powelson D, ed. *Pediatric Surgery, Not a Textbook*. Unbound Medicine. 2017.
5. Shaffer K, Koontz CS, Vanderwalle R, **NM Novotny**: Torticollis. Powelson D, ed. *Pediatric Surgery, Not a Textbook*. Unbound Medicine. 2018.
6. Novitski KS, Radulescu A, Jelin EB, Ladd MR, Meier K, **NM Novotny**: Prune Belly. Powelson D, ed. *Pediatric Surgery, Not a Textbook*. Unbound Medicine. 2018.
7. Fitzgerald TN, Nwomeh B, Farmer D, Butler M, Kisa P, Murrell ZC, Meyer T, Tsai AY, **Novotny NM**, Krishnaswami S, Sanchez J, G Jensen: Global Pediatric Surgery. Powelson D, ed. *Pediatric Surgery, Not a Textbook*. Unbound Medicine. 2018.
8. **Novotny NM**, G Jensen: Conflict and Disaster Relief. Powelson D, ed. *Pediatric Surgery, Not a Textbook*. Unbound Medicine. 2018.

PRESENTATIONS:

1. **Novotny NM**, Urso J, Rawls JR: Screening for Mutations Causing Failures in the RNA Sorting Mechanism in Spermiogenesis. Kentucky Academy of Sciences (KAS), Frankfort, KY, USA, August, 1996.
2. **Novotny NM**, Selzer DJ: Hand-Assisted Laparoscopic Splenectomy: When Should It Be Offered? Society of American Gastrointestinal and Endoscopic Surgeons (SAGES), Las Vegas, NV, USA, April 2007.
3. **Novotny NM**, Selzer DJ: Hand-Assisted Laparoscopic Splenectomy: When Should It Be Offered? Indiana Chapter of American College of Surgeons, South Bend, IN, USA, May 2007.
4. Mattix KD, **Novotny NM**, Shelley A, Rescorla FJ: Malone Antegrade Colonic Enema (MACE) for Fecal Incontinence in Imperforate Anus Improves Quality of Life. 14th Annual International Paediatric Colorectal Club, York, England, July 2007.

PRESENTATIONS, CONT.

5. **Novotny NM**, Sandoval JS, Grosfeld J, Pu X, Turner K, Klaunig J, Rescorla FJ, Hickey R, Malkas LH: Oxidative Status in Neuroblastoma: A Source of Stress? British Association of Paediatric Surgeons, Edinburgh, Scotland, July 2007.
6. **Novotny NM**, Jester AL, Ladd AP: Preoperative Prediction of Need for Fundoplication Prior to Gastrostomy Tube Placement. Indiana Chapter of American College of Surgeons, Indianapolis, IN, USA, April 2008.
7. **Novotny NM**, Liesen D, Senagore AJ, Hayward TZ, Selzer DJ, Pennington RE, Munshi IA, Zyromski NJ: Can Plain Abdominal X-ray Predict the Need for Operation in Patients with Adhesive Small Bowel Obstruction. Indiana Chapter of American College of Surgeons, Indianapolis, IN, USA, April 2008.
8. **Novotny NM**, Markel TA, Crisostomo PR, Wang M, Herring CM, Lahm T, Wang Y, Meldrum DR: Neonatal Mesenchymal Stem Cells Produce IL6 But Not VEGF Through NFkB While Adults Utilize Both. Surgical Infection Society, Hilton Head Island, SC, USA, May 2008.
9. **Novotny NM**, Liesen DA, Senagore AJ, Hayward TZ, Selzer DJ, Pennington RE, Munshi IA, Zyromski NJ: Can Plain Abdominal X-Ray Predict the Need for Operation in Patients with Adhesive Small Bowel Obstruction? Society for Surgery of the Alimentary Tract, San Diego, CA, USA, May 2008.
10. **Novotny NM**, Jester AL, Ladd AP: Preoperative Prediction of Need for Fundoplication Prior to Gastrostomy Tube Placement. American Pediatric Surgical Association, Phoenix, AZ, USA, May 2008.
11. **Novotny NM**, Mann MJS, Rescorla FJ: Fistula in Ano in Infants: Who Recurs? 15th Annual International Paediatric Colorectal Club, Salamanca, Spain, June 2008.
12. **Novotny NM**, Applegate KE, Rescorla FJ: Intestinal Strictures After Peritoneal Drainage in Extremely Low Birth-Weight Infants. British Association of Paediatric Surgeons, Salamanca, Spain, July 2008.
13. **Novotny NM**, Fuka DB, Zyromski NJ, Lillemoe KD, Thompson DC: Primary Lumbar Hernia: Lessons Learned From a West African Epidemic. Midwest Surgical Association, Mackinac Island, MI, USA, August 2008.
14. **Novotny NM**, Vegeler RC, Breckler FD, Rescorla FJ: Percutaneous Endoscopic Gastrostomy Buttons in Children: Superior to Tubes. American Academy of Pediatrics, Boston, MA, USA, October 2008.
15. Tan J, Crisostomo PR, Wang Y, Markel TA, **Novotny NM**, Ray R, Meldrum DR: Targeted Overexpression of IL-18 Binding Protein Enhances Mesenchymal Stem Cell Mediated Cardioprotection Against Ischemia/Reperfusion Injury, American College of Surgeons, San Francisco, CA, USA, October 2008.
16. **Novotny NM**, Wheeler MJ, Todd SA, Rodman GH, Bjerke HS, Pohlman TH, Hayward TZ, Simons CJ, Streib EW, Jacobson LE, Gomez GA, Falimirski ME: Prospective Analysis of Indications for Abdominal Computed Tomography in Blunt Trauma, Association for Academic Surgery, Ft. Myers, FL, USA, February 2009.

PRESENTATIONS, CONT.

17. **Novotny NM**, Crisostomo PR, Markel TA, Wang M, Wang Y, Meldrum DR: Epinephrine's Proinflammatory Stimulation of Mesenchymal Stem Cells, Society of University Surgeons, Ft. Myers, FL, USA, February 2009.
18. **Novotny NM**, Liesen D, Torbeck L, Canal DF, Lillemoe KD, Zyromski NJ: Can General Surgery Residents Still Interpret the Plain Abdominal X-Ray? The Utility of a Web-Based Assessment Instrument, Midwest Surgical Association, Lake Geneva, WI, USA, August 2009.
19. **Novotny NM**, MJ Wheeler, LR Scherer, E Weinstein, ME Falimirski: Prospective Analysis of Indicators for Abdominal Computed Tomography in Children Sustaining Blunt Trauma, American Association for the Surgery of Trauma, Pittsburgh, PA, USA, October 2009.
20. **Novotny NM**: Considerations for the Interview Trail: Didn't I Just Do This? American Academy of Pediatrics, Orlando, FL, USA, October 2013.
21. Bayci A, HL Lovvorn, III, **NM Novotny**: *Primum non nocere* – Ethical Concerns from Procedural Risks in the Global Health Setting, Consortium of Universities in Global Health, Boston, MA, USA, March 2015.
22. Jenkins C, Simon R, **Novotny NM**, England A, Ottolino R, Akay B, Morden RS, Fischer AC: Public Health Consequences of Central Venous Catheter Composition, Canadian Association of Pediatric Surgeons, Niagara Falls, Ontario, September 2015.
23. Mane G, **NM Novotny**: Opportunities for Global Health Experiences Among Michigan Medical Schools, 2015 Global Health Symposium, Detroit, MI, USA, October 2015.
24. Godoy-Lenz J, Puentes MC, Leopold E, Ortega M, **Novotny NM**: The Burnia: Laparoscopic Sutureless Inguinal Hernia Repair in Girls, IPEG's 25th Annual Congress for Endosurgery in Children, Fukuoka, Japan, May 2016.
25. Alslaim HS, **Novotny NM**: A Safer Laparoscopic Ladd Procedure, IPEG Middle East Chapter Annual Meeting, Cairo, Egypt, Nov 2016.
26. Al-Hadidi A, **Novotny NM**: Decision-Making in Pediatric Persistent Mullerian Duct Syndrome, American College of Surgeons Michigan Chapter, Boyne Falls, MI, USA, May 2017.
27. Abbott E, Chan J, **Novotny NM**: In Pursuit of the Most Cost Effective Laparoscopic Appendectomy: The Effect of Disposables on Operative Time and Surgeon-Controllable Operative Cost, American College of Surgeons Michigan Chapter, Boyne Falls, MI, USA, May 2017.
28. Johns P, **Novotny NM**: Barbed Sutures in Thoracoscopic Eventration Repair, IPEG's 26 Annual Congress for Endosurgery in Children, London, England, July 2017.
29. Abbott E, Chan J, **Novotny NM**: In Pursuit of the Most Cost Effective Laparoscopic Appendectomy: The Effect of Disposables on Operative Time and Surgeon-Controllable Operative Cost, IPEG's 26 Annual Congress for Endosurgery in Children, London, England, July 2017.
30. Godoy-Lenz J, Puentes MC, Leopold E, Ortega M, **Novotny NM**: The Burnia: Laparoscopic Sutureless Inguinal Hernia Repair in Girls, Jordanian Chapter of the American College of Surgeons, Amman, Jordan, September 2017.

PRESENTATIONS, CONT.

31. Batayneh Z, **NM Novotny**: A Novel Non-Electrosurgical Technique For Incising the Pylorus in Laparoscopic Pyloromyotomy, Seattle, WA, USA, April 2018.
32. **Novotny NM**, Hammouri S: My Worst Nightmare – TEF Leak in the Developing World, International Pediatric Endosurgical Group, Seattle, WA, USA, April 2018.
33. Luehmann N, Staubach M, **Novotny NM**: The Efficiency of a Family-Centered Approach to Pediatric Induction of Anesthesia, American Pediatric Surgical Association, Palm Desert, CA, USA, May 2018.
34. Luehmann N, Staubach M, **Novotny NM**: The Efficiency of a Family-Centered Approach to Pediatric Induction of Anesthesia, Beaumont Health Resident/Fellow Research Forum, Royal Oak, MI, USA, May 2018.

SPECIAL CERTIFICATIONS:

Fundamentals of Laparoscopic Surgery
Advanced Trauma Life Support – Instructor
Advanced Cardiac Life Support – Provider
Advanced Burn Life Support - Provider
Pediatric Advanced Life Support – Provider
Basic Life Support – Provider

PERSONAL:

Hobbies: Travel (38 countries and counting), Radio-Controlled Airplanes