

**CURRICULUM VITAE  
2009**

**Raymond P. Onders, M.D., F.A.C.S.**  
**Margaret and Walter Remen Chair of Surgical Innovation**  
**Director of Minimally Invasive Surgery**  
*University Hospitals Case Medical Center*  
*Associate Professor of Surgery*  
*Case Western Reserve University School of Medicine*  
*11100 Euclid Avenue*  
*Cleveland, Ohio 44106-5047*  
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**PERSONAL:**

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Shaker Heights, Ohio 44122  
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**EDUCATION:**

General Surgery Residency:  
Case Western Reserve University Surgical Residency Program 1988-1993  
2074 Abington Road  
Cleveland, Ohio 44106-5000  
Residency Review Committee 1990-1993

Medical School:  
Northeastern Ohio Universities College of Medicine 1984-1988  
Rootstown, Ohio 44272  
M.D. awarded 5/28/88  
Alpha Omega Alpha  
Biochemistry Teaching Fellow  
Air Force Health Professions Scholarship

Undergraduate Education:  
Kent State University 1982-1984  
Kent, Ohio 44242  
Bachelor of Science  
Salutatorian  
Summa Cum Laude  
Varsity Track and Field

**ACADEMIC APPOINTMENTS:**

**Case Western Reserve University**  
**Assistant Professor of Surgery 1997-2004**  
**Associate Professor June 2004-**

Uniformed Services University of the Health Sciences  
F. Edward Hebert School of Medicine  
Clinical Assistant Professor of Surgery 1997

Wright State University School of Medicine  
Clinical Assistant Professor of Surgery 1997

University of North Dakota School of Medicine  
Clinical Assistant Professor of Surgery 1994-1996  
Clinical Instructor of Surgery 1993-1994  
Residency Review Committee Member 1994-1996

#### **MILITARY SERVICE:**

United States Air Force 1984-1997  
Promoted to Major in 1994  
Military Assignments while on Active Duty  
Wright-Patterson Air Force Base, Ohio, 1996-1997  
Grand Forks Air Force Base, North Dakota, 1993-1996  
Military Highlights  
**Air Force Commendation Medal**- Awarded 5/15/97  
**Meritorious Service Medal**- Awarded 7/11/96  
Combat Medical Readiness Training- 9/96  
Chemical Warfare- 12/95  
Burn fellow at MetroHealth Burn Center from 8/95 to 9/95  
Officership Course- 7/95 to 9/95  
Trauma fellow at MetroHealth Medical Center from 8/94 to 9/94  
Military Indoctrination for Medical Officers- 7/93  
School of Aerospace Medicine- 8/85  
Health Professional Officer Indoctrination Course- 7/85  
Commissioned as Second Lieutenant 3/8/84

#### **LICENSURE AND CERTIFICATES:**

American Board of Surgery # 39016 - awarded 2/15/94  
Passed recertification 2001  
Ohio License 35-05-9392 since 1/16/90  
DEA # B03962253  
Certified American College of Surgeons Ultrasound Instructor  
Advanced Trauma Life Support  
Advanced Cardiac Life Support

#### **PROFESSIONAL SOCIETIES:**

Fellow of the American College of Surgeons 1992-  
**Certified Ultrasound Instructor 2002-**  
Central Surgical Association 2002-  
American Spinal Injury Association- 2006-  
American Board of Surgery  
**Associate Examiner in the Certifying Examination in Cleveland, 1999**  
**Associate Examiner in the Certifying Examination in Cincinnati, 2004**  
**Alternate Examiner in Certifying Examination in Cleveland, 2006**  
  
Society of American Gastrointestinal Endoscopic Surgeons 1995-  
**Chair Resident Education Committee 2005-**

**Coordinator for the SAGES Educator's Lunch 2006**  
**Co-Chair Resident Education Committee 2002-2005**  
**Resident Education Committee Member 1998-**  
**Legislative Committee 2002-**  
**Fundamentals of Endoscopic Surgery 2005-2007**  
**Public Information 2006-2007**  
**Technology Assessment and Ergonomics Committee Member 1998-2002**  
**Flexible Endoscopy Committee Member 2002-2004**  
**Flexible Endoscopy Study Group 1999-2002**  
**Coordinator of SAGES 2001 Educator's Program 2001**  
 Ohio Chapter of American College of Surgeons 1998-  
 American Hernia Society 1999-  
     **Judge for Resident/Fellow Award 2002**  
 Cleveland Surgical Society 1999-  
     **President 2005-2006**  
     President Elect 2004-2005  
     **Chairperson for Resident Research Forum 2002-2005**  
 Society for Surgery of the Alimentary Tract 1999-  
 American Society for Gastrointestinal Endoscopy 1995-  
 Midwest Surgical Association 1996-  
     Board Member 2005-  
     **Editorial Committee 2004-2006**  
     **Program Committee 2000-2005**  
     **Chairman Program Committee 2004**  
     **Judge's Committee for Resident Competition 2001-2005**  
 Society of Laparoendoscopic Surgeons 1995-  
 Society of Air Force Clinical Surgeons 1994-2000  
     **Clinical Surgeons Award Committee Member 1997**  
 Alpha Omega Alpha Honor Medical Society 1987-  
 North Dakota Chapter of the American College of Surgeons 1993-1996  
 American Medical Association 1988-1994, 1998-2002

## **AWARDS :**

1997: Awarded First Place in Clinical Category of the 1997 AORN Journal Writers Contest

June 2003: Runner up 2003 TIME, Case Western Reserve University/Weatherhead Business School Business Launch Competition in the Bioscience Category for Synapse Biomedical Ltd.

September 2003: Received Northern Ohio Live Award of Achievement in Science and Technology

December 2003: Best in Show- 2003 Cleveland Growth Association/COSE Business Plan Challenge

December 2003: First Place- 2003 Cleveland Growth Association/COSE Business Plan Challenge: Startup Category

December 2003: Gold Electrode Award- Neurotech Reports

June 7, 2004: **Maurice Saltzman Award** is presented on behalf of the Mount Sinai Health Care Foundation for "a piece of work of signal value or merit to the health interests of the Greater Cleveland community."

October 2005: Poster of Exceptional Merit from the American College of Surgeons during the 91<sup>st</sup> Annual Clinical Congress.

2003, 2004, 2005, 2007: Castle-Connolly Medical Top Doctor: The Best in American Medicine. Listed in the third, fourth and fifth edition.

December 2005: The ALS Association 2005 Vision Award

April 2006: Northern Ohio Live Top Doctors

June 2006: American Spinal Injury Association First Place as Best Paper Award at the 2006 Combined Scientific Meeting with ISCOA, Boston.

2007: America's Top Doctors as listed in the seventh edition of Castle Connolly Guide.

March 2008: Named one of Northeastern Ohio's "Top Doctors" in Cleveland Magazine's.

August 2008: Honored as Crain's Cleveland Business 2008 Health Care Heroes for Advancement in Health- Individual

2007-2008: Elected as one of Best Doctors in America

August 2008: Honored with Crain's Cleveland Business 2008 Health Care Heroes for Advancement in Health for Corporate Category for Founder of Synapse Biomedical

September 2008: Honored with Endowed Chair with the Margaret and Walter Remen Chair in Surgical Innovation

November 2008: Diaphragm Pacing was named the third most important Medical Innovation at the 6<sup>th</sup> Medical Innovation Summit at the Cleveland Clinic Foundation

2009 Recognized by Consumers Research Council of America As one of America's Top Surgeon in the 2009 Edition.

#### **VISITING PROFESSORSHIPS:**

**April 1999:** Visiting Professor in the Department of Surgery University of North Dakota School of Medicine and Health Sciences

May 2000: Visiting Professor Northeastern Ohio Universities College of Medicine

March 2001: Visiting Professor Department of Surgery Akron City Hospital

October, 2004: Visiting Professor University of Missouri

November, 2004: Visiting Professor North Dakota School of Medicine and Health Sciences

November, 2006: Visiting Professor Henry Ford Health Systems

#### **JOURNAL REVIEWER:**

Surgical Laparoscopy, Endoscopy & Percutaneous Techniques 2002-  
Surgery 2002-

Gastrointestinal Endoscopy 1996-  
Surgical Endoscopy 2000-  
Southern Medical Journal- 2000  
Journal of the Society of Laparoendoscopic Surgeons 1999-  
Federal Practitioner 1995-1997  
Expert Review of Medical Devices 2005

**UNIVERSITY SERVICE:**

**Member of Master Clinicians Program 2005-**  
**Member of the School of Medicine "Second Look Weekend"**  
**April 2-3, 2005**  
**Member of Faculty Council-** Representing Surgery, Term 1998-2001  
Preceptor for third year medical students 1997-  
Core lecturer for third year medical student in surgery 1997-  
Lectures on Gastroesophageal Reflux Disease, Adrenal Surgery, and  
endoscopy simulators.

**COMMERCIAL ENDEAVERS:**

Founding member Synapse Biomedical, Inc.- 2002  
Board Member 2005-  
Chief Surgical Officer

**PATENTS:**

Mapping Probe System for Neuromuscular Electrical Stimulation Apparatus  
2005/0107860 A1 - priority date July 23, 2003

System and Method for Conditioning a Diaphragm of a Patient  
2005/0021102 A1 - priority date July 23, 2003

Method and Apparatus for Transgastric Neurostimulation  
60/596029 - priority date Aug 25, 2005

Transgastric Mapping Instrument  
60/597440 - priority date Dec 2, 2005

Ventilator Airway Pressure Reduction Apparatus and Method  
60/767201 - priority date Mar 9, 2006

Method and Apparatus for Grasping an Abdominal Wall  
Filed on August 24, 2006

Surgical Instrument Handle  
29/257,299 - priority date Mar 31, 2006

Ventilator Airway Pressure Reduction Apparatus and Method  
60/861,568- priority date November 28, 2006

Diaphragm pacing in ALS patients  
60/872,256- priority date Dec 1, 2006

Intramuscular Electrode  
10091-706.101- priority date Feb 5,2007

**HOSPITAL SERVICE:**

**University Hospitals of Cleveland** 1997-present  
11100 Euclid Avenue  
Cleveland, Ohio 44106-5047  
**Director of Minimally Invasive Surgery 1997-**  
Credentialing Committee for QualChoice of University Hospitals  
Health System 2005-2007  
Perioperative Medicine Service Line Committee 2003-  
Clinical Operations Council Committee 2005-  
UHHS Diamond Advisory Group 2005-  
Operative Services Value Analysis Committee Member 1998-  
To review all new operative equipment for cost analysis  
Referring Physician-UHHS Provider Partnership Committee 2004  
To develop inpatient care physician communication standards  
Outline barriers that can be overcome  
UHC Navigant Operations Steering committee 2003  
Focusing on the efficiency and productivity of the

operations  
Blueprint for Change-Operative Services Analysis-2003  
Core Group Member for the Mather Pavilion Surgery Center 1998-99  
Involved in the design and development of Minimally  
Invasive Surgery Suites  
Member of Rapid Design Team to Decrease Hospital Expenses 1998-99  
Abdominal Surgery Tumor Board Member 1997-  
Thoracic Tumor Board Member 1998-2001  
Quality Assurance Committee Member for Hospital 1997-1998

**Wright-Patterson Medical Center**/74th Medical Group 1996-97  
Wright-Patterson Air Force Base, Ohio 45433

**Chief of Minimally Invasive General Surgery**  
Director of General Surgery Quality Assurance

**319th Medical Group** 1993-96

Grand Forks AFB, ND 58205

Chairman of Medical and Surgical Services Quality Assurance 1996  
Executive Committee of the Medical Staff 1995-1996  
Chief of Surgical Services and Quality Assurance 1995  
Chief of Surgical Clinic 1994-1996  
Cancer Committee Chairman 1994-1996  
Trauma Surgeon for 319th Air Transportable Hospital 1993-1996  
Disaster Team Chief 319th Medical Group 1995-1996  
Director of Anesthesia Services 1994-1996  
Pharmacy Committee Member 1993-1994

**Veteran Administration Medical Center** 1993-1996  
Fargo, ND

#### **GRANTS:**

1. 1995 "Helicobacter Pylori Detection Methods", Remel Corporation,  
**\$500.00** *Primary Investigator*
2. 1999 "The effect of CO2 Pneumoperitoneum on Rats" Unrestricted grant  
**\$3,000.00**, Stryker Corporation. *Primary Investigator*
3. 1999 "Role of Endothelium in the Oliguria Induced by Prolonged CO2  
Pneumoperitoneum" Society of American Gastrointestinal Endoscopic  
Surgeons 1999 Research Grant, Award Accepted at SAGES annual meeting  
March 27, 1999 **\$15,000.00**. *Primary Investigator*
4. 2000-2004 Elisabeth Severance Prentiss Foundation grant to improve  
patient care through minimally invasive surgery. January 3, 2000 for  
**\$1,100,000.00**. *Co-Recipient*
5. 2000-2002 United States Surgical Corporation Center of Excellence Grant  
for research in Minimally Invasive Surgery **\$500,000** *Primary  
Investigator*
6. 2003-2007 The Elisabeth Severance Prentiss Foundation for the Further  
Research and Development of Diaphragm Pacing through Minimally Invasive  
Surgery **\$400,000** *Primary Investigator*
7. 2004 Winters Family Foundation for the Development of a Diaphragmatic

- Pacing System in ALS \$20,000 *Primary Investigator*
8. 2004 Bailey Foundation for the Investigation of the Interactions between Cardiac Pacemakers and Diaphragmatic Pacing System \$20,000 *Primary Investigator*
  9. 2005 Meyerson Family Foundation to study the Diaphragm Pacing System in ALS \$100,000 *Primary Investigator*
  10. 2006-2010 The Mangelluzi Family to Support the expansion of Diaphragm Pacing to Pediatric Populations \$250,000 *Principal Investigator*
  11. 2006 SBIR Grant Binder Free Diaphragm Pacing Stimulation and Airway Clearance Assistance \$111,554 *Co-Investigator*
  12. 2007-2008 ALS Pivotal trial Diaphragm Pacing Sponsored by Synapse Biomedical \$150,000 *Principle Investigator*
  13. 2008 Margaret and Walter Remen Support for Diaphragm Pacing \$70,000
  14. 2008 Diaphragm Pacing Donations to support research activities \$15,000
  15. 2008 Opening of the Center for Diaphragm Pacing Funded by University Hospitals \$250,000

**BIBLIOGRAPHY, Published Peer Reviewed Manuscripts:**

1. Clark JG, Onders RP, Knudson JD. Laparoscopic Distal Pancreatectomy Procedures in a Rural Hospital. *AORN Journal* 1997;65:334-43.
2. Onders RP. Detection Methods of Helicobacter Pylori: Accuracy and Costs. *American Surgeon* 1997;63:665-668.
3. Aiyer H, Stellato TA, Onders RP, Mortimer JJ. Laparoscopic implant instruments for the placement of intramuscular electrodes in the diaphragm. *IEEE Transactions in Rehabilitation Engineering* 1999;7:360-371.
4. Bennett AA, Gilkeson RC, Haaga JR, Makkar VK, Onders RP. Complications of "dropped" gallstones after laparoscopic cholecystectomy: technical considerations and imaging findings. *Abdominal Imaging* 2000;25:190-193.
5. Ambrose JA, Onders R, Stowe N, Simonson M, Robinson A, Wilhelm S, Schulak J. Pneumoperitoneum Upregulates Renal Preproendothelin-1 Messenger RNA. *Surgical Endoscopy* 2001;15:183-188.
6. Onders RP, Shuck JM. Repairing Adult Inguinal Hernias: Let Me Count the Ways. *Curr Surg* 2000 Surg;57:394-398
7. Dimarco AF, Onders RP, Kowalski KE, Miller ME, Ferek S, Mortimer JT.

- Phrenic Nerve Pacing in a Tetraplegic Patient via Intramuscular Diaphragm Electrodes. **American Journal of Respiratory and Critical Care Medicine** 2002;166:1604-1606.
8. Onders RP. The Utility of Flexible Endoscopy During Advanced Laparoscopy. **Seminars in Laparoscopic Surgery** 2003;10;43-48.
  9. Onders RP, DiMarco AF, Ignagni AR, Mortimer JT. Laparoscopic Placement of Diaphragm Pacing Systems in Human Subjects. **Laparoscopy and SLS report** 2003;2;22-23.
  10. Onders RP, Mittendorf E. Late Outcomes of Diagnostic Laparoscopy for Chronic Abdominal Pain. **Surgery** 2003;134;549-552.
  11. Onders RP, Aiyar H, Mortimer JT. Characterization of the Human Diaphragm Muscle with respect to the Phrenic Nerve Motor Points for Diaphragmatic Pacing. **American Surgeon** 2004;70;241-247.
  12. Onders RP, Ignagni AI, Aiyer H, Mortimer JT. Mapping the Phrenic nerve Motor Point: the Key to a Successful Laparoscopic Diaphragm Pacing System in the first human series. **Surgery** 2004;136;819-826.
  13. Onders RP, Hallowel PT. The era of ultrasonography during laparoscopic cholecystectomy. **The American Journal of Surgery** 2005;189;348-351.
  14. Onders RP, Ignagni AI, DeMarco AF, Mortimer JT. The learning Curve of investigational surgery: Lessons Learned from the first series of laparoscopic diaphragm pacing for chronic ventilator dependence. **Surgical Endoscopy** 2005;19;633-7.
  15. DiMarco AF, Onders RP, Ignangi AI, Kowalski KE, Stephan S, Mortimer JT. Phrenic Nerve Pacing via intramuscular diaphragm electrodes in tetraplegic subjects. **Chest** 2005;127;671-677.
  16. Cosendai G, de Balthasar C, Ignagni A, Onders R, Bradley K, Purnell K, Mortimer J, Davis R, Zilberman Y, Schulman J. A Preliminary feasibility study of different implantable pulse generators technologies for diaphragm pacing system. **Neuromodulation** 2005;8;203-211.
  17. Onders RP, Shenk RR, Stellato TA. Long-term central venous catheters: size and location do matter. **American Journal of Surgery** 2006;191;396-9.
  18. Dimarco AF, Onders RP, Ignagni A, Kowolski KE. Inspiratory muscle pacing in spinal cord injury: case report and clinical commentary. **J Spinal Cord Med** 2006;29(2): 95-108.
  19. McGee MF, Rosen MJ, Marks J, Onders RP, Chak A, Faulx A, Chen VK, Ponsky J. A Primer on Natural Orifice Translumenal Endoscopic Surgery: Building a New Paradigm. **Surgical Innovation** 2006: 13: 86-93.
  20. Wilhelm SM, Prinz RA, Barbu AM, Onders RP, Solorzano CC. Analysis of large versus small pheochromocytomas: operative approaches and patient outcomes. **Surgery**. 2006 Oct;140(4):553-9.
  21. Onders R, McGee M, Marks J, Chak A, Schilz R, Rosen M, Ignagni A, Faulx A, Elmo MJ, Schmoisch S, Ponsky J. Diaphragm pacing with natural

- orifice tranluminal endoscopic surgery (NOTES): Potential for difficult to wean intensive care unit(ICU) patients. *Surgical Endoscopy* 2007;21:475-79.
22. Onders R, McGee, Marks J, Chak A, Rosen M, Ignagni A, Faulx A, Elmo MJ, Schmoisich S, Ponsky J. Natural Orifice Transluminal Endoscopic Surgery(NOTES): As a Diagnostic tool in the Intensive Care Unit (ICU). *Surgical Endosc* 2007;21:681-83.
  23. McGee MF, Rosen MJ, Marks J, Chak A, Onders R, Faulx, Ignagni A, Schomish S, Ponsky J. A reliable method for monitoring intraabdominal pressure during natural orifice transluminal endoscopic surgery. *Surg Endosc* 2007;21:672-76.
  24. Onders RP, Elmo MJ, Ignagni AR. Diaphragm Pacing Stimulation System for Tetraplegia in Individuals Injured During Childhood or Adolescence. *Journal of Spinal Cord Medicine* 2007;30: 25-29.
  25. Bittner JG, Marks JM, Dunkin BJ, Richard WO, Onders RP, Mellinger JD. Resident training in flexible gastrointestinal endoscopy: a review of current issues and options. *J Surg Educ* 2007;64:399-409.
  26. McGee MF, Marks JM, Onders RP, Chak A, Jin J, Williams CP, Schomischh SJ, Ponsky JL. Complete Endoscopic Closure of Gastrostomy After Natural Orifice Transluminal Endoscopic Surgery Using the NDO Plicator. *Surg Endosc* 2008;22:214-20.
  27. McGee MF, Marks JM, Onders RP, Chak A, Rosen MJ, Williams SP, Jin J, Schomisch SJ, Ponsky JL. Infectious implications in the porcine model of natural orifice transluminal endoscopic surgery (NOTES) with PEG-tube closure: a quantitative bacteriologic study. *Gastrointest Endosc* 2008;68: 310-318.
  28. Alsheklee A, Onders RP, Syed TU, Elmo M, Katirji B. Phrenic nerve conduction studies in spinal cord injury: Applications for diaphragmatic pacing. *Muscle nerve* 2008;36:1546-52.
  29. Katirji B, Onders R, Elmo MJ, Kernich C. Diaphragm pacing in Amyotrophic Lateral Sclerosis: Hope for a Devastating Disease. *Neurological Institute Journal*. 2008;1:9-15.
  30. Poulouse BK, Gosen C, Marks JM, Khaitan L, Rosen MJ Onders RP, Trunzo JA, Ponsky JL. Inpatient Mortality Analysis of Paraesophageal hernia repair in Octogenarians. *J Gastrointest Surg* 2008;12: 1888-92.
  31. Onders RP, Calin AM, Elmo MJ, Sivashankaran S, Katirji B, Schilz R. Amyotrophic Lateral Sclerosis: The Midwestern Surgical experience wiht diaphragm pacing stimulation system shows that general anesthesia can be safely performed. *American J Surgeon* 2009;197:386-390.
  32. Onders RP, Elmo M, Khansarinia S, Bowman B, Yee J, Road J, Bass B, Dunkin B, Ingvarsson PE, Oddsdottir M. Complete Worldwide Experience in laparoscopic diaphragm pacing: results and differences in spinal cord injured patients and amyotrophic lateral sclerosis patients. *Surg Endosc* 2008 Dec 6 ( Epub ahead of print)
  33. Nikfarjam M, McGee MF, Trunzo JA, Onders RP, Pearl JP, Poulouse BK, Chak

A, Ponsky JL, Marks JM. Transgastric Natural Orifice Translumenal Endoscopic Surgery (NOTES) Peritonoscopy in Humans: A Pilot Study in Efficacy and Gastrostomy Site Selection. Submitted Oct 2008

34. Lepore AC, Tolmie C, O'Donnell J, Wright MC, Dejea C, Rauck B, Hoke A, Ignagni AR, Onders RP, Maragakis NJ. Peripheral Hyperstimulation Alter Disease Course and Site of Onset in SOD1 G93a Rats Submitted to Neurology 2009

#### **BIBLIOGRAPHY, Published Abstracts, Chapters:**

1. Epner SL, Onders R, Burt N, Chung JB. The Socialization into the American Mental Health Belief System. *Ohio Journal of Science* 1985;85:57.
2. Onders RP. Laparoscopic Appendectomies Decrease Inpatient Stay When Compared to Open Appendectomies. **The Society of Air Force Clinical Surgeons Abstract Book**, 1995.
3. Onders RP. Laparoscopic Distal Pancreatectomy for a Cystadenoma. **The Society of Air Force Clinical Surgeons Abstract Book**, 1995.
4. Onders RP. Laparoscopic Distal Pancreatectomy of a Cystadenoma. **Society of Laparoendoscopic Surgeons** Vol. 4, 1995.(Abstract)
5. Onders RP. Maintaining Trauma Surgical Skills at Grand Forks Air Force Base. **The Society of Air Force Clinical Surgeons Abstract Book**, 1996.
6. Onders RP. Helicobacter Pylori Detection Methods at Grand Forks Air Force Base. **The Society of Air Force Clinical Surgeons Abstract Book**, 1996.
7. Onders RP. Detection Methods of *Helicobacter pylori* at a Rural Air Force Hospital: Accuracy and Costs. *Surg Endosc* 10:251, 1996.(Abstract)
8. Onders RP. Laparoscopic Distal Pancreatectomy Preserving the Spleen: Report of Two Cases. *Surg Endosc* 10:252, 1996.(Abstract)
9. Onders RP. Book Review: Operative Laparoscopy and Thoracoscopy. *Gastrointestinal Endoscopy* 1997;45:448-449.
10. Onders RP. Utility of Office-Based Ultrasonography. *Surg Endosc* 11:209, 1997.(Abstract)
11. Onders RP, Stellato TA. Utility of Laparoscopy in Evaluating and Treating Lymphomas. *Surgical Endoscopy* 1998;12:S39.(Abstract)
12. Onders RP. Extraperitoneal Laparoscopic Inguinal Hernia Repair. Minimal Access Surgery Postgraduate Course Syllabus 1998. **American College of Surgeons**, October 1998;33-35.
13. Onders RP, Stellato TA. Therapeutic Choledochoscopy and Its Complications. IN: Scott-Conner CEH, editor. **The SAGES Manual: Fundamentals of Laparoscopy and GI Endoscopy**. New York: Springer-Verlog:1999;529-533.

14. Mittendorf EA, Onders RP, Dudgeon D. Laparoscopic Heller Myotomy for Achalasia in Children. ***Surgical Endoscopy*** 1999;13:S62. (Abstract)
15. Onders RP, Jasper JJ, Luce EA. Laparoscopic Transposition of the Greater Omentum For Median Sternotomy Dehiscence. ***Surgical Endoscopy*** 1999;13:S62. (Abstract)
16. Onders RP, Van Antwerp AD, Stellato TA, Chak A. Gastric Stromal Cell Tumor: Management Utilizing Endoscopic Ultrasound for Diagnosis and Laparoscopy for Resection. ***Surgical Endoscopy*** 1999;13:S63. (Abstract)
17. Mittendorf EA, Onders RP, Willis JE. Histopathologic Comparison of Classic Versus Vigorous Achalasia. ***Surgical Endoscopy*** 1999;13:S60. (Abstract)
18. Ben-Meir A, Onders RP, Stellato TA, Shuck J. Utility of Laparoscopic Ultrasound in Laparoscopic Adrenalectomy. ***Surgical Endoscopy*** 1999;13:S23. (Abstract)
19. Onders RP, Gordon J, Mittendorf EA, Willis JE. Histopathologic Analysis of Achalasia. ***Gastroenterology*** 1999;116:1338. (Abstract)
20. Trotto N, Onders RP, Van Dam J. Contemporary Management of Gallstone Disease. ***Patient Care: The Practical Journal for Primary Care Physicians*** 1999;33:90-106.
21. Brodsky J, Brody F, Berk T, Brandt C, Marks J, Onders R, Walsh M, Ponsky J. Optimizing Resources for Resident Education Using a Citywide Laparoscopic Training Program. ***Surgical Endoscopy*** 2000;14:s148. (Abstract)
22. Ambrose JA, Onders R, Stowe N, Simonson M, Robinson A, Wilhelm S, Schulak J. Pneumoperitoneum Upregulates Renal Proendothelin-1 Messenger RNA. ***Surgical Endoscopy*** 2000;14:s145. (Abstract)
23. Aiyar H, Onders RO, Stellato TA, Miller ME, Mortimer T. Laparoscopic Identification of the Phrenic Nerves in Humans for Diaphragmatic Pacing. ***Surgical Endoscopy*** 2000;14:s166. (Abstract)
24. Mittendorf E, Onders R. From Open to Laparoscopic Heller Myotomy: A ten year experience in the surgical management of achalasia. ***Surgical Endoscopy*** 2000;14:s205. (Abstract).
25. Weinstein L, Onders RP. Laparoscopic Verses Open Adrenalectomy: A Comparison of Operative Time and Length of Stay. ***Surgical Endoscopy*** 2000;14:s227. (Abstract)
26. Amrose JA, Onders R, Stowe N, Simonson M, Robinson A, Schulak J. Renal endothelin-1 peptide expression and localization during CO<sub>2</sub> pneumoperitoneum in a rat model. ***Journal of American College of Surgeons*** 2000;191:S97. (Abstract)
27. Onders RP. Laparoscopic Inguinal Herniorrhaphy. In: Cameron JL, editor. ***Current Surgical Therapy***. 7<sup>th</sup> ed. Mosby, St. Louis, 2001;1389-94.

28. Brodsky J, Brody F, Berk T, Brandt C, Marks J, Onders R, Walsh M, Ponsky J. Optimizing Resources for Resident Education Using a Citywide Laparoscopic Training Program. Accepted for publication in ***Surgical Endoscopy*** 2001.
29. Onders RP. Upper Digestive Surgery. ***Gastrointestinal Endoscopy*** 2000.(Book Review)
30. Onders RP. Spleen: Traumatic Injury and Hematologic/Oncologic Disease. In: Pappas TN, editor. ***Unbound Surgery***. Online publication 2002.
31. Onders RP. Hematologic/Oncologic Disease of the Spleen. In: Pappas TN, editor. ***Unbound Surgery***. Online publication 2002
32. Onders RP, Jasper JJ. Laparoscopic Versus open Splenectomies in the new Millineum: Should Open Splenectomies still be done? ***Surgical Endoscopy*** 2001;15:S152. (Abstract)
33. Mittendorf EA, Onders RP. Late Outcomes of Diagnostic Laparoscopy for Chronic Abdominal Pain. ***Surgical Endoscopy*** 2001;15:S148. (Abstract)
34. Mittendorf E, Onders RP. Chronic Right Lower Quadrant Pain: Long-term results after Laparoscopic Appendectomy. ***Surgical Endoscopy*** 2001;15:S148. (Abstract)
35. Onders RP, Aiyar H, Ferek S, DiMarco A, Miller ME, Stellato TA, Mortimer JT. The First Successful Laparoscopic Placement of a Diaphragm Pacing System in a Human Subject. ***Surgical Endoscopy*** 2001;15:S96. (Abstract)
36. Onders RP. A Laparoscopic Foregut Disorder Program Increases Surgical Residents Experience in Flexible Upper Endoscopy. ***Surgical Endoscopy*** 2001;15:S152. (Abstract)
37. Ben-Meir A, Schirmer BD, Onders RP. A 6-year Multi-Institutional Review of Surgery in Pregnancy: Laparoscopy has not become the standard of Care for Appendicitis. ***Surgical Endoscopy*** 2002;16:S265. (Abstract)
38. Onders RP, Hallowel PT. The Era of Ultrasonography During Laparoscopic Cholecystectomy: Is Cholangiography ever Needed? ***Surgical Endoscopy*** 2002;16:S302. (Abstract)
39. Onders RP, Nakamoto D. The Spleen. In: Haaga JR, Lanzieri C(eds) ***Computed Tomography and MRI of the Whole Body***, 4<sup>th</sup> Edition, Elsevier Science, Orlando, 2003, 1487-1510.
40. Onders RP, Ignagni AI, DeMarco AF, Mortimer JT. The learning Curve of investigational surgery: Lessons Learned from the first series of laparoscopic diaphragm pacing for chronic ventilator dependence. ***Surgical Endoscopy*** 2004;18:s181.
41. Onders RP, Ignagni AI. Functional Electrical stimulation in Laparoscopy: the Current and future applications. ***Surgical Endoscopy*** 2004;18:s238.
42. Farooq F, Nagendra S, Boolchand V, Das A, Faulx A, Reynolds H, Onders R, Sivak M, Chak A. Supervised versus unsupervised training on a

computer-based colonoscopy simulator. *Gastrointestinal Endoscopy* 2005;61:ab113.

43. Onders RP, Ignagni AR, Katirji B, Schilz R, Elmo MJ. Early results of Laparoscopic Motor Point Diaphragm Pacing in Amyotrophic Lateral Sclerosis: Can exogenous electrical stimulation impact respiratory failure?. *Amyotrophic Lateral Sclerosis and other Motor Neuron diseases* 2006;6:142-143.
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72. **Onders R, Katirji B, Schilz R, Elmo M, Sivashankaran S, Ignagni A. Motor Point Diaphragm Pacing in Patients with MND/ALS: Long term follow-up of Completed Safety and Feasibility Study. *Amyotrophic Lateral Sclerosis* 2007;5(S):82**
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74. **Onders R, Khansarinia S, Dunkin B, Bass B, Yee J, Oddsdottir M. Laparoscopic Diaphragm Motor Point Pacing: Complete Worldwide Experience of All Implanted Patients. *Surgical Endoscopy* 2008;22(S)173.**
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78. Boulet M, Onders R, Clark G, Nemunaitis G. The Diaphragm Pacing System in an Individual with Tetraplegia and an Axonal Polyneuropathy. *Journal of Spinal Cord Medicine* 2008;31:243-244.
79. Onders RP, Elmo MJ, Bowman B, Road J, Ingvarsson P, Dunkin B. Diaphragm Pacing Stimulation (DPS) System for Ventilatory Support in Tetraplegia Complete Worldwide Results of a Prospective FDA trial. *Journal of Spinal Cord Medicine* 2008;31:223-224.
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81. Onders RP, Katirji B, Elmo M et al. "Results of Prospective Pilot and Multi-Center Trials of Diaphragm Pacing in Amyotrophic Lateral Sclerosis: Maintaining Diaphragm Function and Improving Survival"**A myotrophic Lateral Sclerosis 2008;5(S)**
- 82.

#### **SCIENTIFIC PRESENTATIONS AND INVITED LECTURES:**

1. "*Jejunioileal Atresia.*" Presented at Pediatric Surgical Grand Rounds at Rainbow Babies and Children's Hospital, Cleveland, Ohio. January 25, 1992.
2. "*Operative Experience of Case Western Reserve Integrated Hospitals with Long Term Central Venous Access.*" Presented at Surgical Grand Rounds University Hospitals, Cleveland, Ohio. March 21, 1992.
3. "*Long-Term Central Venous Access: Size of Catheter and Site of Placement Increase Technical Problems.*" Presented at MetroHealth Medical Center Scientific Contest for Residents and Fellows, Cleveland, Ohio. May 28, 1992.
4. "*Parathyroid Cancer: A Case Report and Review of The Literature.*" Presented at Surgical Grand Rounds MetroHealth Medical Center, Cleveland, Ohio. April 3, 1993.
5. "*Retention Sutures: The Facts.*" Presented at Surgical Grand Rounds MetroHealth Medical Center, Cleveland, Ohio. April 3, 1993.
6. "*Long-Term Central Venous Access: Size of Catheter and Site of Placement Increase Technical Problems.*" Poster Presentation at the 61st Annual Scientific Meeting of **Southeastern Surgical Congress** at Tarpon Springs, Florida. February 8-11, 1993.
7. "*Wound Management.*" Presented to the 319th Medical Group, Grand Forks, North Dakota. October 7, 1993.
8. "*Parathyroid Cancer: An Update.*" Presented at Surgical Grand Rounds University of North Dakota School of Medicine. November 4, 1994.
9. "*Retention Sutures in General Surgery.*" Presented at Surgical Grand Rounds University of North Dakota School of Medicine. November 4, 1994.
10. "*Wound Ballistics.*" Presented to the 319th Medical Group, Grand Forks,

- North Dakota. November 17, 1994.
11. "*Laparoscopic Distal Pancreatectomy for a Cystadenoma.*" Presented at the 42nd Annual Symposium of **The Society of Air Force Clinical Surgeons**, Dayton, Ohio. April 25, 1995.
  12. "*Laparoscopic Appendectomies Decrease Inpatient Stay When Compared to Open Appendectomies.*" Presented at the 42nd Annual Symposium of **The Society of Air Force Clinical Surgeons**, Dayton, Ohio. April 26, 1995.
  13. "*Advanced Laparoscopic Techniques.*" Presented at University of North Dakota Surgical Grand Rounds at United Hospital, Grand Forks, North Dakota. May 19, 1995.
  14. "*Laparoscopic versus Open Appendectomy: Outcomes and Costs.*" Presented at the United Hospital, Grand Forks, North Dakota. May 19, 1995.
  15. "*Laparoscopic Distal Pancreatectomies.*" Presented at MetroHealth Medical Center, Cleveland, Ohio. August 17, 1995
  16. "*Laparoscopic Appendectomies in North Dakota.*" Presented at MetroHealth Medical Center, Cleveland, Ohio. August 17, 1995.
  17. "*Laparoscopic Distal Pancreatectomy of a Cystadenoma.*" Presented at the **Society of Laparoendoscopic Surgeons** Endo Expo 95 in Orlando, Florida. December 8, 1995.
  18. "*Helicobacter Pylori Detection Methods and The Changing Indications for Ulcer Surgery.*" Presented at General Surgery Grand Rounds at the University of North Dakota School of Medicine, United Hospital, North Dakota. January 19, 1996
  19. "*Helicobacter Pylori Management Controversies.*" Presented at MetroHealth Medical Center, Cleveland, Ohio. February 15, 1996.
  20. "*Detection Methods of Helicobacter Pylori at a Rural Air Force Hospital: Accuracy and Costs.*" Presented at the **5th World Congress of Endoscopic Surgery** and SAGES Scientific Session in Philadelphia, Pennsylvania. March 13-17, 1996.
  21. "*Laparoscopic Distal Pancreatectomy Preserving the Spleen: Report of Two Cases.*" Poster presentation at the 5th World Congress of Endoscopic Surgery and **SAGES Scientific Session** in Philadelphia, Pennsylvania. March 13-17, 1996.
  22. "*Maintaining Trauma Surgical Skills at Grand Forks Air Force Base.*" Presented at **Critical Care/Trauma Symposium** during the 43rd Annual Symposium of The Society of Air Force Clinical Surgeons in San Antonio, Texas. April 4, 1996.
  23. "*Helicobacter Pylori Detection Methods at Grand Forks Air Force Base.*" Presented at Scientific Session during the 43rd Annual Symposium of The **Society of Air Force Clinical Surgeons** in San Antonio, Texas. April 2, 1996.
  24. "*Results of Laparoscopic Surgery for Pancreatic Disorders.*" Presented at the **North Dakota Chapter of the American College of Surgeons** in

- Minot, North Dakota. May 2, 1996.
25. "*Detection Methods of Helicobacter Pylori: Accuracy and Costs.*" Presented at the 39th Annual Meeting of the **Midwest Surgical Association** at Mackinac Island, Michigan. August 20, 1996.
  26. "*Laparoscopic versus Open Appendectomy in a Rural Hospital: Outcomes and Costs.*" Presented at the **Society of Laparoendoscopic Surgeons** 5th Annual Endo Expo in Orlando. December 6, 1996.
  27. "*The Effect of Advanced Laparoscopy on the types of Medical Referrals*" Grand Rounds to the Department of Internal Medicine at Wright Patterson Medical Center and Wright State University School of Medicine, February 14, 1997.
  28. "*Ultrasound Physics.*" Presented at Ultrasound Course held at the 74th Medical Group, Dayton, February 19, 1997.
  29. "*Breast Ultrasound.*" Presented at Ultrasound Course held at the 74th Medical Group, Dayton, February 19, 1997.
  30. "*Intraoperative Ultrasound.*" Presented at Ultrasound Course held at the 74th Medical Group, Dayton, February 19, 1997.
  31. "*Utility of Office-Based Ultrasonography.*" Poster presentation at 1997 **SAGES Annual Scientific Session** in San Diego, March 21, 1997.
  32. "*Advances in Minimally Invasive Surgery.*" Pathology Grand Rounds at Wright Patterson Medical Center, Dayton, Ohio, April 14, 1997.
  33. "*Office Ultrasounds in the Air Force.*" Presented at Scientific Session of the 44th Annual Symposium of the **Society of Air Force Clinical Surgeons** in California, April 16, 1997.
  34. "*Update in Advanced Laparoscopy.*" Presented at Grand Rounds at Barberton Hospital, June 21, 1997
  35. "*Advances in Laproscopic Surgery.*" Presented at UHHS Bedford Medical Center CME Program, Chagrin Valley Country Club, September 10, 1997.
  36. "*Can a Surgeon be an Ultrasonographer? Does it involve Physics?*" Case Western Reserve Surgical Grand Rounds, September 13, 1997.
  37. "*Laparoscopic Surgery 1997: An Update.*" Workshop Session at **Clinical Update in Gastroenterology** at Forum Conference and Education Center, Cleveland, Ohio, September 20, 1997.
  38. "*Update in Advanced Laparoscopy.*" Presented at Operating Room Nurses Grand Rounds at University Hospitals, October 22, 1997.
  39. "*Status of Minimally Invasive Surgery at University Hospitals.*" Presented to Executive Staff of University Hospitals, October 22, 1997
  40. "*Advanced Laparoscopic Management of Peptic Ulcer Disease.*" Presented at Medical Surgical Conference October 21 and 28, 1997.
  41. "*Common Bile Duct Stones.*" Panel Discussion at Case Western Reserve

- University Surgical Grand Rounds, November 15, 1997.
42. "Utility of Office Based Ultrasonography." Presented at the Sixth International Meeting of Laparoendoscopic Surgeons, Orlando, Florida, December 5, 1997.
  43. "New Developments in Laparoscopic Surgery." Presented at University Suburban Health Center, January 6, 1998.
  44. "Advances in Laparoscopic Gastrointestinal Surgery." Presented at Department of OB/GYN Grand Rounds at University MacDonald Womens Hospital on January 22, 1998.
  45. "Laparoscopic Surgery and Oncology in 1998." Presentation and part of faculty at Lymphoma Symposium at Aultman Cancer Center, Canton, Ohio February 19, 1998.
  46. "Advances in Minimally Invasive Surgery" Presented at the Annual Post Anesthesia Nurses Association of Greater Cleveland, Cleveland, March 7, 1998.
  47. "Utility of Laparoscopy in Evaluating and Treating Lymphomas." Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting Scientific Session, Seattle, April 2, 1998.
  48. "Laparoscopy and Oncology in 1998: There is a common ground." Presented at Surgical Scientific Series 1998 sponsored by the Forum Health, Trumbull Memorial Hospital, Warren, Ohio, April 30, 1998.
  49. Presented **Commencement Address** to graduates receiving their Bachelor of Science in Integrated Life Sciences at **Kent State University** on May 19, 1998.
  50. "General Surgery Panel Meeting For the Future of Laparoscopic Surgery" Ethicon Endo-Surgery Institute, Cincinnati, Ohio, July 15-16, 1998.
  51. "Extraperitoneal Laparoscopic Inguinal Hernia Repair" Presented at the **American College of Surgeons** Post Graduate Session on Minimally Access Surgery, Orlando, October 28, 1998.
  52. Moderator for Colon, Staging of Malignancy, Adrenal and Access for Nutrition during **American College of Surgeons** Post Graduate Session on Minimally Access Surgery, October 27, 1998.
  53. "Laparoscopic Adrenalectomy: The Gold Standard in 1999" Presented at Endocrine Grand Rounds, Case Western Reserve University, February 10, 1999.
  54. "Gastroesophageal Reflux Disease: Surgical Options in 1999" Presented at Primary Care Symposium for PHS/Deaconess Hospital, Cleveland, February 17, 1999.
  55. "Laparoscopic Distal Pancreatectomy: A Safe and Efficacious Way to Diagnose and Treat Cystic Lesions of the Pancreas" Presented at **Americas Hepato-Pancreato-Biliary Congress**, February 19, 1999.
  56. "Gastroesophageal Reflux Disease and Surgery: When is Surgery Necessary" Presented at Family Practice Grand Rounds, Case Western Reserve University,

- Cleveland, March 4, 1999.
57. "Advances in Minimally Invasive Surgery" Presented at Case Western Reserve University Medical Grand Rounds, Cleveland, March 9, 1999.
  58. "Laparoscopic Innovations in Surgical Oncology" Presented at Radiology Forum at University Hospitals of Cleveland, March 15, 1999.
  59. "Histopathologic Comparison of Classic Versus Vigorous Achalasia" Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting Scientific Session, San Antonio, March 24-27, 1999.
  60. "Laparoscopic Transposition of the Greater Omentum for Median Sternotomy Dehiscence" Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting Scientific Session, San Antonio, March 24-27, 1999.
  61. "Utility of Laparoscopic Ultrasound in Laparoscopic Adrenalectomy" Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting Scientific Session, San Antonio, March 24-27, 1999.
  62. "Gastric Stromal Cell Tumors: Management Utilizing Endoscopic Ultrasound for Diagnosis and Laparoscopy for Resection" Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting Scientific Session, San Antonio, March 24-27, 1999.
  63. "Laparoscopic Heller Myotomy For Achalasia In Children" Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting Scientific Session, San Antonio, March 24-27, 1999.
  64. "Achalasia: Modern Surgical Management" Presented at Surgical Grand Rounds at Case Western Reserve University, Cleveland, April 10, 1999.
  65. "*History and Development of Laparoscopic Adrenal Surgery.*" Presented at Surgical Grand Rounds at Altru Hospital and the University of North Dakota School of Medicine and Health Sciences, Grand Forks, North Dakota, April 23, 1999.
  66. "*Achalasia: Laparoscopic Heller Myotomy- The New Standard of Therapy.*" Presented at Surgical Grand Rounds at Altru Hospital and the University of North Dakota School of Medicine and Health Sciences, Grand Forks, North Dakota, April 23, 1999.
  67. "*Newest Standards of Surgical Care: Laparoscopic Adrenalectomy and Laparoscopic Heller Myotomy*" Presented at Grand Rounds at Barberton Citizens Hospital, May 5, 1999.
  68. "*Achalasia: The Modern Surgical Techniques*" Present at Cardiothoracic Surgery Grand Rounds, University Hospitals of Cleveland, August 18, 1999.
  69. "*Laparoscopic Donor Nephrectomy: The Pros and Cons*" Presented at the 24<sup>th</sup> Annual Renal Symposium for the Kidney Foundation of Ohio, September 23, 1999.
  70. "*Laparoscopic Suturing Techniques*" Presented at City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, October 6, 1999.
  71. "*Achalasia: Non-Operative and Operative Management Techniques and Results*"

- Presented at the "Comprehensive Laparoscopic Skills Integration Program" SAGES Advanced Laparoscopy Workshops for Residents and Attendings, Cleveland, Ohio November 12, 1999.
72. "TEP Hernia Repair: How to do it the right way" Presented at City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, November 17, 1999.
  73. "Optimizing Resources for Resident Education Using a Citywide Laparoscopic Training Program". Presented at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting of the Millennium Scientific Session, Atlanta, March 29-April 1, 2000.
  74. "Pneumoperitoneum Upregulates Renal Prproendothelin-1 Messenger RNA." Presented at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting of the Millennium Scientific Session, Atlanta, March 29-April 1, 2000. Presentation by Joseph Ambrose received **1<sup>st</sup> Place for Best Resident Presentation in SAGES 2000 Main Session.**
  75. "Laparoscopic Identification of the Phrenic Nerves in Humans for Diaphragmatic Pacing." Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting of the Millennium Scientific Session, Atlanta, March 29-April 1, 2000.
  76. "From Open to Laparoscopic Heller Myotomy: A ten year experience in the sugical management of achalasia." Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting of the Millennium Scientific Session, Atlanta, March 29-April 1, 2000.
  77. "Laparoscopic Verses Open Adrenalectomy: A Comparison of Operative Time and Length of Stay." Poster Presentation at **Society of American Gastrointestinal Endoscopic Surgeons** Meeting of the Millennium Scientific Session, Atlanta, March 29-April 1, 2000.
  78. "Laparoscopic Solid Organ Surgery" Presented at City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, April 19, 2000.
  79. "Future of Laparoscopic Surgery." Presented as Visiting Professor at Third Annual **NEOUCOM Surgery Residents Research Day**, Rootstown, Ohio, May 3, 2000.
  80. "CT Imaging of Abdominal Hernias". Presented at the **American Radiological Society** with co-authors Herbener T, Basile V, Gilkeson R, Nakamoto D, DeBaz B, Onders R. May 2000.
  81. "What does a Gastroenterologist need to know about a Laparoscopic Nissen Fundoplication" Presented to the Gastroenterology Fellowship Program University Hospitals of Cleveland, June 22, 2000.
  82. "Upper Gastrointestinal Tract Pathology" Presented at SAGES Resident's Workshop, Cincinnati, Ohio August 11, 2000.
  83. "Laparoscopic Suturing Techniques" Presented at City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland October 18, 2000.
  84. "Renal endothelin-1 peptide expression and localization during CO2 pneumoperitoneum in a rat model." Research Presented by JA Ambrose at **American College of Surgeons Owen H. Wangensteen Surgical Forum**, Chicago

October 26, 2000.

85. *"Preoperative Evaluation and Non-operative Therapy for achalasia"* Presented at the SAGES Advanced Laparoscopy Workshop, Cleveland, November 4, 2000.
86. *"TEP Hernia Repair: How to do it the right way"* Presented at City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, November 29, 2000.
87. *"Laparoscopic Solid Organ Surgery"* Presented at Surgical Grand Rounds at Akron City Hospital, Akron, Ohio, March 30, 2001.
88. *"A Laparoscopic Foregut Disorder Program Increases Surgical Residents' Experience in Flexible Upper Endoscopy"* Poster Presentation at **Society American Gastrointestinal Endoscopic Surgeons 2001 Scientific Session**, St. Louis, Missouri, April 18-21, 2001.
89. *"Chronic Right Lower Quadrant Pain: Long-Term Results after Laparoscopic Appendectomy"* Poster Presentation at **Society American Gastrointestinal Endoscopic Surgeons 2001 Scientific Session**, St. Louis, April 18-21.
90. *"Laparoscopic Versus Open Splenectomies in the New Millineum: Should Open Splenectomies Still Be Done?"* Poster Presentation at **Society American Gastrointestinal Endoscopic Surgeons 2001 Scientific Session**, St. Louis, Missouri, April 18-21, 2001.
91. *"Late Outcomes of Diagnostic Laparoscopy for Chronic Abdominal Pain"* Paper Presentation during the Resident & Fellow Scientific Session by Elizabeth Mittendorf M.D., at **Society American Gastrointestinal Endoscopic Surgeons 2001 Scientific Session**, St. Louis, Missouri, April 18-21, 2001.
92. *"Communication Technology's Role in Surgical Education"*. Presentor and Coordinator for Educator's Program at **Society American Gastrointestinal Endoscopic Surgeons 2001 Scientific Session**, St. Louis, April 20, 2001.
93. *"The First Successful Laparoscopic Placement of Diaphragm Pacing System in a Human Subject"* Paper Presentation at **Society American Gastrointestinal Endoscopic Surgeons 2001 Scientific Session**, St. Louis, April 21, 2001.
94. *"What is Minimally Invasive Surgery?"* Presented at University Hospitals Regional Network Weekly Interactive Televised Grand Rounds. Cleveland, April 25, 2001
95. *"Laparoscopic Solid Organ Surgery"* Presented at City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, April 25, 2001.
96. *"Laparoscopy and Chronic Pain"* Presented for the Travelling Surgeon Club, Cleveland, May 11, 2001.
97. *"Emerging Role of Laparoscopy in Patients with Chronic Abdominal Pain and Assessment of Late Outcomes"*. Presented the 42<sup>nd</sup> Annual Meeting of the Society for Surgery of The Alimentary Tract Poster session of 2001 Annual Meeting at Digestive Disease Week, Monday May 21, 2001.
98. *"Ultrasound in Laparoscopy"* Presented at the SAGES Resident's Workshop, Gastrointestinal Endoscopy and Laparoscopy: An Introduction for Surgeons, Cincinnati, August 10, 2001.

99. "Upper Endoscopy: Indications, technique, pathology, treatment of bleeding and therapeutics" Presented at the SAGES Resident's Workshop, Gastrointestinal Endoscopy and Laparoscopy: An Introduction for Surgeons, Cincinnati, January, 18, 2002.
100. "Laparoscopic Lyses of Adhesions for Chronic Abdominal Pain" Presented at Surgical Grand Rounds at University Hospitals of Cleveland, February 16, 2002.
101. "A 6 year multi-institutional review of surgery in pregnancy. Laparoscopy has not become the standard of care for appendicitis". Poster Presentation at **Society American Gastrointestinal Endoscopic Surgeons 2002 Scientific Session**, New York City, March 14-16, 2002.
102. "Era of Ultrasonography during Laparoscopic Cholecystectomy, Is Cholangiography ever needed?" Poster Presentation at **Society American Gastrointestinal Endoscopic Surgeons 2002 Scientific Session**, New York City, March 14-16, 2002.
103. "Achalasia: The Pathology of the Disease and Laparoscopic Management" Presented at the Eastern Surgical Society, May 10, 2002.
104. "Chronic Abdominal Pain: Laparoscopic Management" Presented at Ohio Chapter of American College of Surgeons 2002 Annual Meeting, Akron, Ohio May 10, 2002.
105. "Ultrasound in Laparoscopy" Presented at Sages Resident's Workshop Gastrointestinal Endoscopy and Laparoscopy: An Introduction for Surgeons. Cincinnati, Ohio August 9, 2002.
106. "Laparoscopic Adrenalectomy- Indications and techniques" Presented at SAGES Advanced Laparoscopy Workshop, Norwalk, CT, November 14, 2002.
107. "Laparoscopic Inguinal Hernia" Presented at SAGES Advanced Laparoscopy Workshop, Norwalk, CT, November 15, 2002.
108. "Upper Endoscopy: Indications, technique, pathology, treatment of bleeding and therapeutics" Presented at the SAGES Resident's Workshop, Gastrointestinal Endoscopy and Laparoscopy: An Introduction for Surgeons, Cincinnati, January, 17, 2003.
109. "Utility of laparoscopy in chronic abdominal pain" Presented at the 60<sup>th</sup> Annual Meeting of the Central Surgical Association. Toronto, March 20, 2003.
110. "Management of Difficult Foregut Cases" Presented at the SAGES 2003 Laparoscopic Foregut Course, Cincinnati, May 2, 2003.
111. "Laparoscopic Placement of the Diaphragm Pacing System for Ventilator Dependent Patients" Presented at the Pulmonary Services Department Spring Lecture at Grant Medical Center, Columbus Ohio, May 30<sup>th</sup>, 2003.
112. "Ultrasound in Laparoscopy" Presented at the SAGES Resident's Workshop, Ethicon Institute, July 31, 2003.
113. "Characterization of the Human Diaphragm Muscle with respect to the Phrenic Nerve Motor Points for Diaphragmatic Pacing". Presented at Midwest Surgical

- Association 46<sup>th</sup> Annual Meeting, Galena, Illinois, August 12, 2003.
114. "Laparoscopic Adrenalectomy, Indication and Techniques". Presented at the SAGES Advanced Laparoscopy Workshop, Norwalk CT, September 4, 2003.
  115. "Laparoscopic Heller Myotomy" Presented at the SAGES 2003 Advanced Laparoscopic Course, September 22-23, 2003.
  116. "Developing a Laparoscopic Practice in a University Setting" Presented at the SAGES Fellow and Senior Resident Course September 22, 2003, Cincinnati, Ohio
  117. "Electrical Activation of the Diaphragm for Ventilatory Assist: the Story of an Orphan Product" Presented at the 9<sup>th</sup> Annual J Robert Wilson Memorial Lecture at Akron General Medical Center, October 17<sup>th</sup>, 2003.
  118. "Current Status of Diaphragm Pacing" Invited Speaker for the Neural Prosthesis Seminar at Case Western Reserve University's Frohrig Auditorium November 20, 2003.
  119. "Laparoscopic Hernia Repair" City-wide laparoscopic training course for general surgery residents at the Cleveland Clinic Foundation Minimally Invasive Surgery Center, January 14, 2004.
  120. "Ultrasound in Laparoscopy" Presented at the SAGES Resident's Workshop, Ethicon Institute, February 5, 2004.
  121. "Laparoscopic Surgery for Achalasia" City Wide Laparoscopic Training Course for General Surgery Residents at the Cleveland Clinic Foundation Minimally Invasive Surgery Center, March 3, 2004.
  122. Mapping the Phrenic Nerve Motor Point: The Key to a successful Laparoscopic Diaphragm Pacing System in the First Human Series. Presented at the 61<sup>st</sup> Annual meeting of the Central Surgical Association, Chicago, March 5, 2004.
  123. "Electrical Activation of the Diaphragm for Ventilatory Assist." Presented at The West Virginia Society for Respiratory Care's Annual Health Care Conference, Wheeling, West Virginia, March 25, 2004.
  124. "Diaphragm Pacing in Tetraplegic Patients" Grand rounds at Craig Hospital, Denver Colorado, March 31, 2004.
  125. "The Learning Curve of investigational surgery: Lessons Learned from the first series of laparoscopic diaphragm pacing for chronic ventilator dependence." Presented at the 2004 Scientific Session & postgraduate course for Sages, Denver April 1, 2004.
  126. "The future of diaphragmatic pacing in a pediatric population" Presented at the Pediatric Pulmonary Fellows Course, April 13, 2004.
  127. "Functional Electrical stimulation in Laparoscopy: the Current and future applications." Poster presentation at the 2004 Scientific Session & postgraduate course for Sages, Denver April 1, 2004.
  128. "Laparoscopic Repair of Giant Paraesophageal Hernia" Presented at SAGES advanced Minimally Invasive Foregut Course, Cincinnati, May 7, 2004.
  129. "Biomedical Engineering and Medicine: The Interactions Necessary for the

- development of the Diaphragm Pacing Stimulator System" Presented at Northeastern Ohio Universities College of Medicine, May 12, 2004.
130. "Electrical Activation of the Diaphragm for Ventilatory Support" Presented at Grand Rounds at Vancouver Hospital and Health Sciences Centre and the University of British Columbia, May 28, 2004.
  131. "Laparoscopic Splenic Surgery" Presented at the SAGES Advanced Laparoscopy Workshop at USSC Headquarters, Norwalk, CT June 10, 2004.
  132. "Ultrasound for Surgeons" Presented at the American College of Surgeons Basic Ultrasound Course at USSC Headquarters, Norwalk, CT, June 10, 2004.
  133. "Laparoscopic Placement of Diaphragmatic Pacing System for Ventilator Dependent Patients" Keynote Speaker at the 26th Annual State Meeting, "Sharing the Breath of Life with others" for the Ohio Society for Respiratory Care, August 2, 2004.
  134. "Biotechnology and Business: A Physician's Perspective of an Orphan Product" Presented at the 12<sup>th</sup> Annual Summer Seminar of the Center for Literature, Medicine and the Healthcare Professions at Hiram College in Hiram, Ohio, August 3, 2004.
  135. "Upper Endoscopy: Indications and Techniques" Presented at the SAGES Resident Workshop, Ethicon Endosurgery, Cincinnati, Ohio August 12, 2004
  136. "The era of ultrasonography during laparoscopic cholecystectomy" Presented at the 47<sup>th</sup> Annual Meeting of the Midwest Surgical Association, Mackinaw Island, Michigan, August 15-18, 2004.
  137. "Laparoscopic Minimally Invasive Surgery: From Gallbladders to Lou Gehrig's Disease" Presented at CASE's Amaci Medicinæ program for Scholarships for Tomorrow's Doctors, Cleveland, Ohio, October 18<sup>th</sup>, 2004.
  138. "Laparoscopic Diaphragmatic Pacing for Ventilatory Assist" Presented at the University of Missouri, Columbia, Missouri, October 20<sup>th</sup>, 2004.
  139. "Paraesophageal Hernias" Presented at the Advanced Laparoscopic Course at Ethicon Endosurgery, Cincinnati, Ohio, December 2, 2004.
  140. "Building a Laparoscopic Practice in a University Setting" Presented at the Advanced Laparoscopic Course at Ethicon Endosurgery, Cincinnati, Ohio, December 2, 2004.
  141. "From Gallbladders to Lou Gehrig's Disease" Presented at Surgical Grand Rounds Case Western Reserve University, Cleveland, Ohio, December 4, 2004.
  142. "Minimally Invasive Diaphragm Pacing: Where are we at?" Presented at Pulmonary Grand Rounds, Case Western Reserve University, Cleveland, January 7, 2005
  143. "Minimally Invasive Solid Organ Surgery" Presented at the Society of American Gastrointestinal Endoscopic Surgeons Resident Workshop, Cincinnati, Ohio, January 31, 2005.
  144. "Current Status of Diaphragm Pacing" Presented at University of Texas SouthWestern Medical Center Physical Medicine and Rehabilitation Grand

Rounds, Dallas, Texas, February 25, 2005

145. "Supervised Versus Unsupervised Training on a Computer-Based Colonoscopy Simulator" Poster Presentation At CASE Research ShowCASE 2005, Cleveland, April 8, 2005.
146. "Current Status of Phrenic Nerve Pacing via Laparoscopically placed Intramuscular Electrodes in Tetraplegics" Poster Presentation At CASE Research ShowCASE 2005, Cleveland, April 8, 2005.
147. "Options for Ventilatory Assist in Amyotrophic Lateral Sclerosis(ALS): The Possibility of Diaphragm Pacing Via Laparoscopically Placed Intramuscular Electrodes" Presented both as an oral communication and a poster at the 10<sup>th</sup> International Conference on Home Mechanical Ventilation, Lyon, France April 9, 2005
148. "Current Status of Phrenic Nerve Pacing via Laparoscopic Placed Intramuscular Electrodes in Tetraplegics" Poster presentation at the 10<sup>th</sup> International Conference on Home Mechanical Ventilation, Lyon, France April 9, 2005
149. "The Possibility of Diaphragm Pacing Via Laparoscopically Placed Intramuscular Electrodes for Ventilatory Assist in Amyotrophic Lateral Sclerosis(ALS)" Oral Presentation at the Emerging Technology Session of 2005 Society of American Gastrointestinal Endoscopic Surgeons during the Surgical Spring Week, Fort Lauderdale, Florida, April 16<sup>th</sup>, 2005
150. "Effect of Left and Right Diaphragm Activation on Inspired Volume Production in Tetraplegics" Presented as a Poster at the American Thoracic Society International Conference, San Diego, May 20-25, 2005
151. "Current Status of Diaphragm Pacing" Presented at the Packard Center for ALS at John Hopkins University, August 10<sup>th</sup>, 2005.
152. "Long-Term Central Venous Catheters: Size and Location Do Matter" Presented at the 48<sup>th</sup> Annual Meeting of the Midwest Surgical Association, Niagara on the Lake, August 15, 2005.
153. "Diaphragm Pacing in the Ventilator Dependant Spinal Cord Injured Patient" Poster presentation at the 22<sup>nd</sup> Annual American Association of Spinal Cord Injury Nurses 2005 Annual Conference, Las Vegas, September 5-11, 2005
154. "Inspired Volumes Resulting From Direct and Intramuscular Phrenic Nerve Stimulation" Poster Presentation at the 51<sup>st</sup> Annual American Paraplegia Society, Las Vegas, Nevada. September 6-9, 2005.
155. "Current Status of Phrenic Nerve Pacing Via Laparoscopically Placed Intramuscular Electrodes in Tetraplegics" Post Presentation at the American Association of Trauma, Atlanta, Georgia September 23-24, 2005.
156. "Minimally Invasive Diaphragm Pacing; What the future holds" Presented as a Visiting Professor at Dartmouth Medical School September 28<sup>th</sup>, 2005
157. "Current Status of Diaphragm Pacing for Congenital Central Hypoventilation Syndrome(CCHS) and Spinal Cord Injury" Rainbow Babies & Children's Hospital Alumni Conference, Cleveland, September 30- October 1, 2005.

158. "Diaphragm Pacing as an Alternative to the Ventilator" Keynote speaker at for the Ohio Lung Association's 16<sup>th</sup> Annual North Coast Pulmonary Disease Seminar, October 12<sup>th</sup>, 2005.
159. "Current Status of Minimally Invasive Diaphragm Pacing: Spinal Cord Injured Patients and ALS(Lou Gehrig's Disease)" Poster Presentation at 91<sup>st</sup> Annual Clinical Congress of the American College of Surgeons, San Francisco, October 16-20, 2005. **Received Poster of Exceptional Merit award.**
160. "Diaphragm Pacing after Spinal Cord Injury" Presented at the 2005 Spinal Cord Injury Conference at the Louis Stokes VA Hospital, Cleveland. October 21, 2005.
161. "Laparoscopic Paraesophageal Hernia Repair" Presented at the SAGES Advanced Laparoscopic Techniques Course Ethicon Endo-Surgery, Cincinnati, November 5, 2005
162. "Inguinal Hernia" Case Western Reserve University 2005 First Annual General Surgery Update Course. November 12, 2005
163. "Diaphragm Pacing in Amyotrophic Lateral Sclerosis" Poster Presentation at the International ALS Societies, Dublin, December 5-8, 2005.
164. "Laparoscopic Electrical Stimulation: New applications and Needs" Presented at the Engineering Patient Benefits with Minimal Access Surgery Forum at Case Western Reserve, January 17<sup>th</sup>, 2006.
165. "Achalasia" Presented at the City-Wide Laparoscopic Training Course at the Cleveland Clinic Foundation, February 1, 2006.
166. "Electrical Pacing Options" Presented at Advances in Minimally Invasive Surgery 2006 with The Ohio State University Center for Minimally Invasive Surgery at Marco Island, Florida February 4, 2006.
167. "Utilizing Laparoscopic Ultrasound" Presented at Advances in Minimally Invasive Surgery 2006 with The Ohio State University Center for Minimally Invasive Surgery at Marco Island, Florida February 4, 2006.
168. "Upper Endoscopy: Indications and Techniques" Presented at the SAGES Gastrointestinal Endoscopy and Laparoscopy: An introduction for surgeons. Ethicon Endosurgery, Cincinnati, Ohio February 9, 2006
169. "Current Status of Minimally Invasive Diaphragm Pacing: Spinal Cord Injured Patients and ALS(Lou Gehrig's Disease)" Presented at Hamot Medical Center Grand Rounds Program, Erie, PA, March 23, 2006.
170. "The difficult patient and the difficult hernia" Presented at the Ohio State University Department of Surgery Center for Minimally Invasive Surgery Laparoscopic Hernia Repair Course March 31 and April 1, 2006.
171. "Diaphragm Pacing Stimulation System in Amyotrophic Lateral Sclerosis: Early Results Promising" Poster Presentation At CASE Research ShowCASE 2006, Cleveland, April 5-6, 2006.
172. "Laparoscopic Mapping of the Motor Points in Partially Denervated Diaphragms: Key findings for Successful Placement of the Diaphragm Pacing System" Poster Presentation at the SAGES 2006 Scientific Session, *Received the Honor of*

*Poster of Distinction, Dallas, April 26-28, 2006.*

173. "Natural Orifice Transvisceral Endoscopic Surgery(NOTES): As a Diagnostic tool in the Intensive Care Unit (ICU)" Presented at the SAGES 2006 Scientific Session in the Transluminal Surgery Session, Dallas, April 28, 2006.
174. "Diaphragm pacing with natural orifice transvisceral endoscopic surgery (NOTES): Potential for difficult to wean intensive care unit(ICU) patients" Presented at the SAGES 2006 Scientific Session in the Best of the Best Plenary Session, Dallas, April 29, 2006.
175. "Successful Diaphragm Pacing in a Porcine Model with Natural Orifice Transvisceral Endoscopic Surgery (NOTES): Increasing the Options for Intensive Care Unit(ICU) Patients" Presented at the 2006 SSAT plenary session during DDW, Los Angeles, May 23, 2006.
176. "Difficult Anti-Reflux Patients" Presented at the SAGES Advanced Laparoscopic Techniques Course Ethicon Endo-Surgery, Cincinnati, May 9, 2006
177. "Current Status of Diaphragm Pacing" Presented to Pediatric Pulmonary Education Conference, Rainbow Babies and Children's Hospital, May 12, 2006
178. "Results of the Phase 1 trial of Diaphragm Pacing" Presented at the Western PA-West Virginia ALS Association Symposium: From Benchtop to Bedside and Beyond, Pittsburgh, May 13, 2006.
179. "Electrical Stimulation: Present and Future Roles" Presented at Spring 2006 Mini Medical School Program, May 30<sup>th</sup>, 2006.
180. "Paraesophageal Hernia Repair" Presented at the SAGES Advanced Laparoscopic Solid Organ/Foregut Surgery Workshop, Norwalk, June 22, 2006.
181. "Endoscopic Approaches to GERD" Presented at the SAGES Advanced Laparoscopic Solid Organ/Foregut Surgery Workshop, Norwalk, June 22, 2006.
182. "Home Based Ventilator Weaning in Tetraplegics: Results of the Diaphragm Pacing Stimulation(DPS) System" Presented as an Award Paper selected as one of the ten highest scoring abstracts for the 2006 "A Global Spinal Cord Injury Conference" for the combined meeting of The American Spinal Injury Association and the International Spinal Cord Society in Boston, June 25, 2006.
183. "The Hurricanes of 2005 and Ventilators: The Benefits of the Diaphragm Pacing Stimulation (DPS) System" Poster Presentation at the 2006 "A Global Spinal Cord Injury Conference" for the combined meeting of The American Spinal Injury Association and the International Spinal Cord Society in Boston, June 24- 26, 2006.
184. "Diaphragm Pacer-Cardiac Pacemaker Interaction: Conceptual, Bench Experimental and Human Studies Confirming Safety in Ventilator Dependent Spinal Cord Patients" Poster Presentation at the 49<sup>th</sup> Annual Midwest Surgical Association meeting at Mackinaw Island, Michigan, August 6-8, 2006.
185. "Options for Ventilation in Spinal Cord Injury- Diaphragm Pacing Results" Grand Round Presentation at RIC of Northwestern, Chicago, September 6, 2006.
186. "Identifying Pathology with Ultrasound" Presentation during the ACS

- Postgraduate Course in Abdominal Ultrasound Course, Chicago, Oct 10, 2006.
187. "Conflict of Interest in Research - Should it Be Eliminated or Managed" Panel discussion at Case Western Reserve University, November 3, 2006.
  188. "Inguinal Hernia Update" Case Western Reserve University 2006 Second Annual General Surgery Update Course. November 11, 2006
  189. "Diaphragm Pacing Applications in the Intensive Care Unit" Grand Round Presentation at Henry Ford Health System, November 15, 2006.
  190. "Vowel Phonation Duration of ALS Patients after Diaphragm Pacing Implantation" Poster Presentation at the American Speech-Language Associations Annual Convention in Miami Beach, Florida, November 16-18, 2006.
  191. "Diaphragm Pacing Stimulation (DPS) System in Tetraplegics who were Injured as a Child" Presented as Podium presentation with a Manuscript at The Howard H. Steel Conference: Injuries and Dysfunction of the Spinal Cord in Children, Lake Buena Vista, Florida, November 29 - December 2, 2006
  192. "Results Of Diaphragm Pacing In Amyotrophic Lateral Sclerosis (ALS): Decreasing The Decline In Respiratory Failure And Increasing Diaphragm Movement Presentation at the International ALS Societies, Yokahoma, Japan, December, 2006. **Recognized at the end of the meeting as one of the highlights of presentations during the week of the meeting.**
  193. "Challenges in Human Applications" presentation at CASE Department of Surgery and Institute for Surgery and Innovation course Natural Orifice Transluminal Endoscopic Surgery, Cleveland, December 8, 2006.
  194. "Diaphragm Pacing in ALS" Presented at the Will Rogers Institute Respiratory Symposium, "Dare to Achieve- Charting our Future Together", Newport Beach, CA, January 28, 2007.
  195. "Laparoscopic Splenectomy-Indications, Techniques, Pre and Post Operative Management" Presented at the Ohio State University and Case Western Reserve University Advances in Minimally Invasive Surgery 2007 New Technology and Techniques March 2, 2007
  196. "Laparoscopic Approaches to GERD" Presented at the Ohio State University and Case Western Reserve University Advances in Minimally Invasive Surgery 2007 New Technology and Techniques March 4, 2007
  197. "Diaphragm Pacing: Results in ALS" Presented at Methodist Neurological Institute Grand Rounds and at Surgical Grand Rounds, Houston, March 8-9, 2007
  198. "Clinical Applications of FES: Diaphragmatic Pacing in Persons with Tetraplegia" Presented at The Spinal Cord Injuries- A multidisciplinary approach to maximizing function, Boston, March 17<sup>th</sup>, 2007.
  199. "Safe Combined Placement of the Laparoscopic Diaphragm Pacing Stimulation System (DPS) and Percutaneous Endoscopic Gastrostomy (PEG) tubes: Results of a Phase One study in Amyotrophic Lateral Sclerosis(ALS). Poster Presentation at the SAGES Annual Scientific Session and Postgraduate Courses during Surgical Spring Week, Las Vegas, April 18-22. *Received the Honor of Poster of Distinction*

200. "Diaphragm Pacing Stimulation (DPS) System: Patient variables affecting initial diaphragm condition and subsequent function with electrical stimulation" Paper presentation at the American Spinal Injury Association (ASIA) 2007 Annual Scientific Meeting, Tampa Bay, May 30<sup>th</sup> to June 2<sup>nd</sup>, 2007.
201. "Patient and Caregivers Perceptions of the Diaphragm Pacing Stimulation (DPS) System" Paper presentation at the American Spinal Injury Association (ASIA) 2007 Annual Scientific Meeting, Tampa Bay, May 30<sup>th</sup> to June 2<sup>nd</sup>, 2007.
202. "Utility of Diaphragm Pacing Stimulation(DPS) System in Amyotrophic Lateral Sclerosis(ALS) Results of a Phase 1 trial" Presented at the 5<sup>th</sup> European ALS Congress, St. Gallen, Switzerland, June 9<sup>th</sup>, 2007.
203. "ALS and Diaphragm Pacing: What have we learned?" Grand Rounds at Lakewood Hospital, Lakewood, Ohio, June 6, 2007.
204. "Laparoscopic Motor Point Diaphragm Pacing Stimulation(DPS) System: Clinical results for Tetraplegia" Presented at the 46<sup>th</sup> International Spinal Cord Society and the 10<sup>th</sup> Nordic Spinal Cord Society in Reykjavik, Iceland June 27<sup>th</sup>, 2007.
205. "Diaphragm Pacing in Tetraplegics: Living Better without the Ventilator" Presentation by Mary Jo Elmo, MSN, RN at the 2007 Annual Conference of the American Association of Spinal Cord Injury Nurses, Orlando, Florida, August 28<sup>th</sup>, 2007
206. "Current Status and Live Demonstration of the Diaphragm Pacing System" Presentation at the 68<sup>th</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, Boston, September 28<sup>th</sup>, 2007
207. "Diaphragm Pacing in ALS" Presented at the 2007 ALS/MND Nursing Symposium, Chicago, October 4, 2007.
208. "Providing and Maintaining Ventilation with the Motor Point Diaphragm Pacing Stimulation (DPS) System: Can Mechanical Ventilators be Replaced with Natural Diaphragm Ventilation?" Presented at the American College of Surgeons 93<sup>rd</sup> Annual Clinical Congress, New Orleans, October 10, 2007.
209. "Endoscopy and Natural Orifice Transluminal Endoscopic Surgery(NOTES) in the Intensive Care Unit" Presented at Postgraduate Session, Minimally Invasive Surgery: The Next Steps during the American College of Surgeons 93<sup>rd</sup> Annual Clinical Congress, New Orleans, October 10, 2007.
210. "Ultrasound Pathology" Presented during the Postgraduate Session, Laparoscopic and Open Ultrasound in Abdominal Surgery during the American College of Surgeons 93<sup>rd</sup> Annual Clinical Congress, New Orleans, October 10, 2007.
211. "Improvements of Respiratory Muscle Deterioration Using the Diaphragm Pacing Stimulation (DPS) System in patients with Amyotrophic Lateral Sclerosis (ALS)" Presentation at the Chest 2007, the annual meeting of the American College of Chest Physicians, Chicago, October 24, 2007.
212. "Liberating Tetraplegics From Mechanical Ventilation Using Motor Point Diaphragm Pacing" Presentation at the Chest 2007, the annual meeting of the American College of Chest Physicians, Chicago, October 24, 2007.

213. "Continuous Ambulatory Diaphragm EMG Measurements: Assessing Respiratory Control and Function Utilizing the Diaphragm Stimulation (DPS) System." Presentation at the Chest 2007, the annual meeting of the American College of Chest Physicians, Chicago, October 24, 2007.
214. "Diaphragm Pacing as a Short-term Assist to Positive Pressure Mechanical Ventilation in Critical Care Patients" Presentation at the Chest 2007, the annual meeting of the American College of Chest Physicians, Chicago, October 24, 2007.
215. "A New Approach to Diaphragmatic Pacing". Presented at Michigan State Medical Society Annual Scientific Meeting, Troy, Michigan, October 25, 2007.
216. "Diaphragm Pacing in ALS" Neurology Grand Rounds and Visiting Professor, Drexel University College of Medicine, Philadelphia, November 9<sup>th</sup>, 2007.
217. "Hernia Update 2007" Presented at the 3<sup>rd</sup> Annual Case Western Reserve University School of Medicine Update, Cleveland, Ohio November 17, 2007.
218. "The ALS/MND Diaphragm, Electrical Stimulation and Respiratory Function: what Learned During the Safety and Feasibility Study of Diaphragm Pacing Stimulation(DPS) System" Presentation at the Allied Professionals Forum during the International Symposium on ALS/MND, Toronto, Canada, November 30<sup>th</sup>, 2007.
219. "Continuous Ambulatory Diaphragm EMG measurements: Assessing Respiratory Control and Function Utilizing the Diaphragm Pacing Stimulation(DPS) System" Presentation at the 18<sup>th</sup> International Symposium on ALS/MND, Toronto, Canada, December 2<sup>nd</sup>, 2007.
220. "Motor Point Diaphragm Pacing in Patients with MND/ALS: Long term follow-up of Completed Safety and Feasibility Study" Poster presentation at the 18<sup>th</sup> International Symposium on ALS/MND, Toronto, Canada, December 2<sup>nd</sup>, 2007.
221. "General Anesthesia in Patients with ALS/MND can be Safe: Lessons learned from the Techniques Used in the Diaphragm Pacing Stimulation Trial" Presentation at the 18<sup>th</sup> International Symposium on ALS/MND, Toronto, Canada, December 2<sup>nd</sup>, 2007.
222. "The role of Diaphragm Pacing in ALS" Presented as Grand Rounds at the Kansas University Medical Center, January 4, 2008.
223. "Natural Orifice Translumenal Endoscopic Surgery(NOTES): Current Human Status and Future Applications" Presented at the 3<sup>rd</sup> Annual NOTES: Current Status, Cleveland, January 12, 2008.
224. "Diaphragm Pacing and ALS: Helping Patients Breathe" Presentation at the ALS Association's 2008 Leadership and Clinical Conference, Newport Beach, CA, January 25, 2008.
225. "Surgical Results of a Multi-Center Trial of the Laparoscopic Motor Point Diaphragm Pacing Stimulation (DPS) System in Ventilator Dependent Tetraplegics" Presentation at the Society of Thoracic Surgeons 44<sup>th</sup> Annual Meeting, Fort Lauderdale, Florida, January 28-30, 2008.
226. "Future of Surgery: Notes" at the SAGES Gastrointestinal Endoscopy and

- Laparoscopy: An introduction for surgeons. Ethicon Endosurgery, Cincinnati, Ohio February 28, 2008.
227. "Diaphragm Pacing Stimulation(DPS) in ALS/MND: Improving Ventilation" Plenary Lecture of the German Association for Clinical Neurophysiology and Neuroimaging, Magdeburg, Germany, April 10<sup>th</sup>, 2008.
  228. "Laparoscopic Diaphragm Motor Point Pacing: Complete Worldwide Experience Of All Implanted Patients" Presented During Plenary Session of SAGES 2008 Surgical Spring Week, Philadelphia, April 12, 2008.
  229. "Diaphragm Pacing for Phrenic Nerve Dysfunction: Results in the First Implanted Acute Transverse Myelitis Patients and Identifying the Future Role for Acute Management of Diaphragm Dysfunction in the Intensive Care Unit" Presented during the Emerging Technology Session, Presented During Plenary Session of SAGES 2008 Surgical Spring Week, Philadelphia, April 12, 2008
  230. **"Painless Surgery without Paralysis" Presented During Fast Track Minimally Invasive Surgery, SAGES, Philadelphia, April 12, 2008**
  231. "Respiration in ALS: What we have learned and the long-term results of diaphragm pacing" Presented at the ALS clinic London Health Sciences Centre, London Ontario, April 30<sup>th</sup>, 2008.
  232. "Surgeons and Flexible Endoscopy: Why and How" Presented at the SAGES Resident Workshop at the Canadian Surgical Technologies and Advanced Robotics Center, London, Ontario, May 1, 2008.
  233. "Current Status on Diaphragm Pacing in ALS" Presented during at the ALS Association 2008 National ALS Advocacy Days and Public Policy Conference, Washington, DC May 12, 2008
  234. "Respiration in ALS: Results of Diaphragm Pacing Trial in ALS" Presented at the Respiratory Research Meeting, University of Wisconsin, Madison, May 16, 2008.
  235. "Diaphragm Pacing in ALS: Helping Patients Breathe" Presented at Living with ALS Symposium at The ALS Association Evergreen Chapter, Seattle, WA, May 17, 2008.
  236. "Intellectual Property, Universities and Starting a Company" Presented at the Invention and Special Interest Group at Digestive Disease Week, San Diego, CA May 19, 2008.
  237. **"The Laparoscopic Motor Point Diaphragm Pacing Stimulation (DPS) System: Providing and Maintaining Natural Diaphragm Ventilation" Presented at the 16<sup>th</sup> European Conference on General Thoracic Surgery, June 9, 2008.**
  238. "Diaphragm Pacing Role in helping to Ventilate Patients" Invited as the Royal College Speaker for the Symposium "Innovation to Move You" for the Canadian Association of Physical Medicine and Rehabilitation, Fredricton, New Brunswick, June 14, 2008.
  239. **"Challenges of Diaphragm Pacing" Presented at the 38<sup>th</sup> Neural Interfaces Conference sponsored by the National Institute of Health, Cleveland, Ohio, June 17<sup>th</sup>, 2008**

240. "Utilizing the Diaphragm Pacing Stimulation(DPS) System for Diaphragm EMG assessments: Findings and Future Role in Spinal Cord Injured Patients." Presented at the meeting of The American Spinal Injury Association(ASIA), San Diego, June 21, 2008.
241. "Diaphragm Pacing Stimulation System for Ventilatory Support in Tetraplegics: Complete Worldwide Experience of a Prospective FDA trial" Presented as an Award Paper selected as one of the ten highest scoring abstracts for the meeting of The American Spinal Injury Association, San Diego, June 20<sup>th</sup>, 2008.
242. "Identifying the Role of Diaphragm Pacing Stimulation(DPS) in Amyotrophic Lateral Sclerosis: Experience form over 40 cumulative years of Utilization" Presentation at the 6<sup>th</sup> European ALS Congress, Lisbon, Portugal, June 22, 2008.
243. "Breathing and ALS: What we have learned and Results with Diaphragm Pacing." Presented at the Les Turner ALS Foundation Annual Education Meeting, Chicago, June 29, 2008.
244. "Diaphragm Pacing Stimulation(DPS) System: Providing Ventilation Options for Tetraplegics" Poster Presentation at the 2008 Congress on Spinal Cord Medicine and Rehabilitation Annual Scientific Conference of the American Association of Spinal Cord Injury Nurses, American Association of Spinal cord Injury Psychologists and Social Workers, American Paraplegia Society and Therapy Leadership Council in Spinal Cord Injury, August 11 and 12 2008, Orlando Florida.
245. "Diaphragm Pacing and the Art of Long Distance Patient Management" Poster Presentation at the 2008 Congress on Spinal Cord Medicine and Rehabilitation Annual Scientific Conference of the American Association of Spinal Cord Injury Nurses, American Association of Spinal cord Injury Psychologists and Social Workers, American Paraplegia Society and Therapy Leadership Council in Spinal Cord Injury, August 11 and 12 2008, Orlando Florida.
246. "Surgery in Patients with Amyotrophic Lateral Sclerosis: The Midwestern Surgical Experience with the Diaphragm Pacing Stimulation (DPS) System Shows that General Anesthesia can be Safely Performed" Presented at the Midwest Surgical Association Annual Meeting, Mackinac Island, Michigan August 4, 2008.
247. "Diaphragm Pacing Stimulation Results in Ventilator Dependent Tetraplegics" Grand Rounds at Boston University School of Medicine, Boston, September 2, 2008
248. "Diaphragm Pacing in ALS" Presentation at the 2008 ALS/MND Nursing Symposium September 19<sup>th</sup>, 2008.
249. "Diaphragm Pacing Stimulation(DPS) System in Amyotrophic lateral sclerosis: Surgical experience in a prospective pivotal multi-center trial" Scientific Exhibit Presentation at the American College of Surgeons 2008 Clinical Congress, San Francisco, October 13 2008.
250. "Diaphragm Pacing Stimulation(DPS) System in Amyotrophic lateral sclerosis: Surgical experience in a prospective pivotal multi-center trial" Oral Presentation at the American College of Surgeons 2008 Clinical Congress, San Francisco, October 15 2008.

251. "Respiratory Management Techniques in ALS: The future role of diaphragm pacing". Presented at ALS Symposium of the ALS Association of Western Pennsylvania-West Virginia Chapter, Pittsburgh, October 18, 2008.
252. "Starting a State Wide Diaphragm Pacing Program". Presented at the Florida Committee of Trauma State Trauma Consultant's Meeting, Orlando, October 23, 2008
253. "Diaphragm Pacing in ALS: Experience at the First and Largest Implant Site" Presented at Allied Professionals' Forum during the International Symposium on ALS/MND, Birmingham England, November 2, 2008
254. "Results of Prospective Pilot and Multi-Center Pivotal Trials of Diaphragm Pacing in Amyotrophic Lateral Sclerosis: Maintaining diaphragm function and improving survival" Presentation during the International Symposium on ALS/MND, Birmingham England, November 5, 2008
255. "The Future of Diaphragm Pacing" Presentation at Papworth Hospital, Cambridge England, November 6, 2008
256. "Diaphragm Pacing: Results in Spinal Cord Injury and Future application for Injured on Ventilators in the Intensive Care Units" Presented at 3rd National Spinal Cord Injury Conference and 16th Interurban Spinal Cord Injury Conference - Innovation, Impact and Future Directions, Toronto, Canada November 7, 2008.
257. "Surgical Procedures in ALS: From Feeding Tubes to Breathing Tubes". Presentation at the ALS Association Annual Conference, Newport Beach, CA, January 22, 2009.
258. "Results of the Diaphragm Pacing System in ALS" Presentation at the ALS Association Annual Conference, Newport Beach, CA, January 23, 2009.
259. "Cost effectiveness of Diaphragm Pacing in Florida" Presentation to the Governor's Commission on Disabilities. Jacksonville, Florida January 26<sup>th</sup>, 2009.
260. "Diaphragm Pacing: Replacing, Delaying and Decreasing Mechanical Ventilators" Presented at the University of British Columbia Respiratory Research Seminar Series, Vancouver, Canada, February 17, 2009.
261. "Diaphragm Pacing in Spinal Cord Injuries and ALS" Presented at the 29<sup>th</sup> Annual Conference at the Slopes by Cambria-Somerset Council for Education of Health Professionals, Respiratory Care Program University of Pittsburgh, Seven Springs, Champion PA, March 5, 2009.
262. "Diaphragm Pacing: Functional Electrical Stimulation to Allow Patients to Breathe" Spinal Cord Injuries Contemporary Forums: A multidisciplinary Approach to Maximizing Function, Orlando, March 19, 2009.
263. "Diaphragm Pacing: Providing Independence from Positive Pressure Ventilation" At the California Society of Respiratory Care Conference, South Lake Tahoe, March 12, 2009.
264. "Phrenic and Diaphragm Pacing" Presentation and Workshop during the 12<sup>th</sup> International Conference on Home Mechanical Ventilation, Barcelona, Spain, March 27-28, 2009.

265. "Diaphragm Pacing in Amyotrophic Lateral Sclerosis- Long term follow up of the completed Pilot Study". Presentation at the American Association of Neuroscience Nurses 41<sup>st</sup> Annual Meeting entitled Leadership and Community: Investing Today in the Neuroscience Nursing of Tomorrow. March 28-29, 2009.
266. "Diaphragm Pacing- A Superior method of Respiratory Support in Cervical Spinal cord injured Patients". Presentation at the American Association of Neuroscience Nurses 41<sup>st</sup> Annual Meeting entitled Leadership and Community: Investing Today in the Neuroscience Nursing of Tomorrow. March 28-29, 2009.
267. "Orphan Products in SCI: The diaphragm pacing system as a HUD" Presentation at the Congress on Spinal Cord Medicine and Rehabilitation, Dallas September 23-26, 2009.
268. "Tracheostomies in Tetraplegics: Diaphragm Pacing Positively Decreases the Use of Cuffed Tracheostomies and Can Lead to Decannulation" Presentation at the Congress on Spinal Cord Medicine and Rehabilitation, Dallas September 23-26, 2009.
269. "Sleep-Disordered Breathing in Chronic Tetraplegia: Diaphragm Pacing as a New Therapeutic Option" Presentation at the Congress on Spinal Cord Medicine and Rehabilitation, Dallas September 23-26, 2009.

**DIRECTOR OR FACULTY OF COURSES AND WORKSHOPS:**

1. "*Trauma Ultrasonography: Maintaining Military Readiness.*" Director of course held at Wright Patterson Medical Center, February 19, 1997.
2. "Surgical Anatomy in Hepatobiliary and Esophagogastric surgery" Part of faculty for Advanced Surgical Anatomy Course of Medical Students at Case Western Reserve University School of Medicine, March 17, 1998.
3. "Extraperitoneal Laparoscopic Hernia Course." Course Director, Westlake, June 27, 1998.
4. "Laparoscopic Suturing" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, October 14, 1998.
5. "Laparoscopic Hernia" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, November 18, 1998.
6. "Extraperitoneal Laparoscopic Hernia Course." Course Director, Westlake, December 12, 1997.
7. "Colonoscopy: Indication, Prepatation & Technique" Lecture at SAGES Resident Workshop, Cincinnati, January 15, 1999.
8. Laboratory Faculty for Gastrointestinal Endoscopy: An Introduction for Surgeons in the SAGES Resident Workshop, January 15-16, 1999
9. "Laparoscopic Esophagogastric Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, January 20, 1999.
10. "Laparoscopic Solid Organ Surgery" City-Wide Laparoscopic Training Course for

- General Surgery Residents, Cleveland, February 24, 1999.
11. "Hepatobiliary Anatomy" Course instructor in Case Western Reserve University School of Medicine Advance Surgical Anatomy Course, March 16, 1999.
  12. "Anatomic Considerations in Laparoscopic Esophagogastric Surgery" Lecturer during Case Western Reserve University School of Medicine Advance Surgical Anatomy Course, March 16, 1999.
  12. "Upper and Lower Endoscopy, Indications and Techniques" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, April 28, 1999.
  13. "Basic Laparoscopic Skills" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, October 6, 1999.
  14. "Comprehensive Laparoscopic Skills Integration Program" SAGES Advanced Laparoscopy Workshops for Residents and Attendings, Cleveland, Ohio November 12, 1999.
  15. "Laparoscopic Hernia Repairs" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, November 17, 1999.
  16. "Laparoscopic Anti-Reflux Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, January 19, 1999.
  17. "Laparoscopic Biliary Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, February 23, 2000.
  18. "Hepatobiliary Anatomy" Course instructor in Case Western Reserve University School of Medicine Advance Surgical Anatomy Course, March 21, 2000.
  19. "Anatomic Considerations in Laparoscopic Esophagogastric Surgery" Lecturer during Case Western Reserve University School of Medicine Advance Surgical Anatomy Course, March 21, 2000.
  20. "Laparoscopic Intestinal Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, March 22, 2000.
  21. "Laparoscopic Solid Organ Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, April 19, 2000.
  22. "Principles of Endoscopy" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, May 17, 2000.
  23. "Extraperitoneal Laparoscopic Hernia Course." Course Director, University Hospitals of Cleveland, June 9, 2000.
  24. "SAGES Resident's Workshop: Gastrointestinal Endoscopy & Laparoscopy: An Introduction for Surgeons" Ethicon Endo-Surgery Institute, Cincinnati, Ohio August 11-12, 2000.
  25. "Basic Laparoscopy" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, October 18, 2000.
  26. "Advanced Laparoscopy Workshop" SAGES Advanced Laparoscopy Workshop November

- 3-4, 2000, Cleveland.
27. "Laparoscopic Hernia Repairs" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, November 29, 2000.
  28. "Laparoscopic Anti-Reflux Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, January 17, 2001
  29. "SAGES basic Endoscopy and Laparoscopy Workshop" The Ethicon Institute, Cincinnati, Ohio, January 19-20, 2001.
  30. "Laparoscopic Biliary Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, February 21, 2001.
  31. "Advanced Surgical Anatomy" Lecturer during Case Western Reserve University School of Medicine Advance Surgical Anatomy Course, March 20, 2001.
  32. "Laparoscopic Intestinal Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, March 21, 2001.
  33. "Laparoscopic Solid Organ Surgery" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, April 25, 2001.
  34. "Principles of Endoscopy" City-Wide Laparoscopic Training Course for General Surgery Residents, Cleveland, May 16, 2001.
  35. "SAGES Basic Endoscopy and Laparoscopy Workshop" The Ethicon Institute, Cincinnati, Ohio, August 10-11, 2001.
  36. "SAGES Resident's Workshop in Gastrointestinal Endoscopy and Laparoscopy" Ethicon Endo-Surgery, Cincinnati, Ohio January 18-19, 2002.
  37. Postgraduate Course "Abdominal Ultrasound: Transabdominal, Intraoperative and Laparoscopic" American College of Surgeons Spring Meeting, San Diego, April 17-18, 2002.
  38. "Laparoscopic Ventral Hernias" Ohio Chapter of American College of Surgeons, May 9, 2002.
  39. "SAGES Basic Endoscopy and Laparoscopy Workshop" The Ethicon Institute, Cincinnati, Ohio, August 9-19, 2002.
  40. "Advanced Laparoscopy Workshop for Sages" United States Surgical Corporate Headquarters, Norwalk, CT, November 14-15, 2002.
  41. "SAGES Basic Endoscopy and Laparoscopy Workshop" The Ethicon Institute, Cincinnati, Ohio, January 18-19, 2003.
  42. Coordinator for the Ultrasound Station in the Learning Center at the Sages 2003 Annual Meeting, Los Angeles March 13-15, 2003.
  43. Course Director for the SAGES 2003 Advanced Laparoscopic Foregut Course, Cincinnati, Ohio, May 1-2, 2003.
  44. Faculty for "SAGES Basic Endoscopy and Laparoscopy Workshop" The Ethicon Institute, Cincinnati, Ohio, July 31-August 1, 2003.

45. Faculty for "United States Surgical/SAGES Advanced Laparoscopic Solid Organ Surgery Workshop", Norwalk, CT, September 4-5, 2003.
46. Faculty for "SAGES Advanced Laparoscopic Course" The Ethicon Institute, Cincinnati, Ohio, September 22-23, 2003.
47. Faculty for The American College of Surgeons PostGraduate Course: Abdominal Ultrasound: Transabdominal/Intraoperative/Laparoscopic, 89<sup>th</sup> Annual Clinical Congress, October 19<sup>th</sup>-23, 2003
48. Faculty for the City-wide laparoscopic training course for general surgery residents in laparoscopic and inguinal hernia repairs at the Cleveland Clinic Foundation Minimally Invasive Surgery Center, January 14, 2004.
49. Faculty for "SAGES Basic Endoscopy and Laparoscopy Workshop" The Ethicon Institute, Cincinnati, Ohio, February 5-6, 2004.
50. Faculty for the City-wide laparoscopic training course in Foregut Surgery for general surgery residents at the Cleveland Clinic Foundation Minimally Invasive Surgery Center, March 3, 2004.
51. Faculty for the City-wide laparoscopic training course for general surgery residents in intestinal surgery at the Cleveland Clinic Foundation Minimally Invasive Surgery Center, March 17, 2004.
52. Faculty for the City-wide laparoscopic training course for general surgery residents in laparoscopic solid organ surgery at the Cleveland Clinic Foundation Minimally Invasive Surgery Center, March 17, 2004.
53. Faculty for the SAGES Advanced Minimally Invasive Foregut Course, Cincinnati, Ohio, May 6-7, 2004.
54. Faculty for the SAGES Advanced Laparoscopy Workshop and Ultrasound Training, Norwalk, CT, June 10, 2004.
55. Faculty for the Society of American Gastrointestinal Endoscopic Surgeons Resident Workshop, Cincinnati, Ohio, August 12-13, 2004.
56. Faculty for the SAGES Advanced Laparoscopic Foregut/Bariatric Surgery Course, United States Surgical, Norwalk, CT, September 9-10, 2004.
57. Faculty for the Society of American Gastrointestinal Endoscopic Surgeons Advanced Laparoscopic Course for Chief Residents and Fellows, Cincinnati, Ohio, December 2-3, 2004.
58. Faculty for The Mt. Sinai Skills and Simulation Center of Case Western University for Endoscopic Training, December 11, 2004.
59. Faculty for the Society of American Gastrointestinal Endoscopic Surgeons Resident Workshop, Cincinnati, Ohio, January 20-21, 2005.
60. Course Director for the SAGES Resident's Workshop Gastrointestinal Endoscopy & Laparoscopy: An introduction for Surgeons, Cincinnati, Ohio August 25-26, 2005.
61. Faculty for The American College of Surgeons PostGraduate Course: Abdominal Ultrasound: Transabdominal/Intraoperative/Laparoscopic, 91<sup>st</sup> Annual Clinical

Congress, October 18<sup>th</sup> , 2005

62. Faculty for the SAGES advanced Laparoscopic Techniques course, Cincinnati, Ohio, November 4-5, 2005.
63. Faculty for the SAGES Gastrointestinal Endoscopy and Laparoscopy: An introduction for surgeons. Ethicon Endosurgery, Cincinnati, Ohio February 9, 2006.
64. Faculty for the Ohio State University Department of Surgery Center for Minimally Invasive Surgery Laparoscopic Hernia Repair Course March 31 and April 1, 2006.
65. Faculty **for the SAGES Advanced Laparoscopic Solid Organ/Foregut Surgery Workshop, Norwalk, June 22-23, 2006.**
66. Course Director for the SAGES Resident's Workshop Gastrointestinal Endoscopy & Laparoscopy: An introduction for Surgeons, Cincinnati, Ohio August 17-18, 2006.
67. Faculty for NOTES: Current Status Hands-On Lab at Case Western Reserve University Department of Surgery, December 8, 2006.
68. Faculty for the SAGES Gastrointestinal Endoscopy and Laparoscopy: An introduction for surgeons. Ethicon Endosurgery, Cincinnati, Ohio February 8-9, 2007.
69. Live Presentation of Case For 2<sup>nd</sup> Annual Hernia Symposium at Case Western Reserve University and Institute for Surgery and Innovation, Cleveland, March 30<sup>th</sup>, 2007.
70. Course Director for the SAGES Resident's Workshop Gastrointestinal Endoscopy & Laparoscopy, Cincinnati, Ohio August 9-10, 2007.
71. Faculty for the SAGES Gastrointestinal Endoscopy and Laparoscopy: An introduction for surgeons. Ethicon Endosurgery, Cincinnati, Ohio February 28-29, 2008.
72. Course Director for the SAGES Resident's Workshop in Gastrointestinal Endoscopy and Laparoscopy, Cincinnati, Ohio August 14-15, 2008
73. Faculty for Laparoscopic Foregut Surgery Hands-On Course at the Society of American Gastrointestinal and Endoscopic Surgeons at the 2009 Surgical Spring Week, April 23, 2009.