

**Jonathan Pearl, MD**  
Associate Professor, Department of Surgery  
Section Chief, Advanced GI and Minimally Invasive Surgery  
University of Maryland School of Medicine

**Date** January 1, 2017

**Contact Information**

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**Education**

1995 B.S., Biology, University of Michigan (Magna Cum Laude)  
1999 M.D., Wayne State University School of Medicine

**Post Graduate Education and Training**

1999-2005 Residency, General Surgery, National Naval Medical Center  
2006-2007 Fellowship, Advanced Laparoscopy and Endoscopy  
Case Western Reserve University School of Medicine

**Certifications**

2006 Diplomat, General Surgery, American Board of Surgery  
2013 Lean Six Sigma, Green and Yellow Belts  
Department of Veterans Affairs  
2016 Recertification, General Surgery, American Board of Surgery

**Medical Licensures**

Inactive Indiana  
Inactive Ohio  
Active Maryland

## **Military Service**

1995-1999 Ensign, US Navy Reserve, Detroit.  
1999-2005 Lieutenant, US Navy, Bethesda, MD  
2005-2006 Lieutenant Commander, US Navy  
USS GEORGE WASHINGTON, Norfolk, VA  
2006-2008 Lieutenant Commander, US Navy, Bethesda  
2008-2009 Commander, US Navy  
Camp al Taqaddum, Iraq  
2009-2010 Commander, US Navy, Bethesda  
2010-2011 Commander, US Navy  
Camp Arifjan, Kuwait  
2011-2012 Commander, US Navy, Bethesda  
Honorable Discharge, 2012.

## **Employment History**

### **Academic Appointments**

2004-2005 Instructor, Surgery, Uniformed Services University  
2006-2007 Instructor, Surgery, Case Western Reserve  
2007-2012 Assistant Professor, Surgery, Uniformed Services University  
2012-2016 Assistant Professor, Surgery, UMSOM  
2016-present Associate Professor, Surgery, UMSOM

### **Profession Society Membership**

2004-present General Member, Society of American Gastrointestinal and  
Endoscopic Surgeons (SAGES)  
2004-2010 General Member, Washington, DC Chapter  
American College of Surgeons  
2007-present Fellow, American College of Surgeons  
2010-2012 Board Member, Washington, DC Chapter  
American College of Surgeons  
2012-present General Member, Association of Academic Surgery

### **Honors and Awards**

1995 Phi Beta Kappa, University of Michigan  
2004 First Prize, Surgical Residents Competitive Forum,

2005	Washington, DC Chapter, American College of Surgeons Harry Zehner Traveling Fellowship,
2013	Washington, DC Chapter, American College of Surgeons Surgery Resident Teaching Award, UMSOM

**Clinical Activities**

**Clinical Expertise**

Board certified general surgeon  
 Fellowship-trained in advanced laparoscopy and endoscopy  
 Clinical expert in complex hernia repair and advanced GI surgery  
 Research focus on advanced imaging in surgery and simulation education  
 Process and Quality Improvement expert

**Scope of Clinical Practice**

2012-present	Baltimore VAMC ~250 cases per year Chief of General Surgery 87.5% FTE
2012-present	University of Maryland Medical Center ~125 cases per year 12.5% FTE
2012-present	UMMC, Midtown Campus ~125 cases per year

**Institutional Service**

2012-2015	Medical Director, MASTRI Simulation Center Oversee staff of 3 and budget of \$600,000. Provide oversight for over 6000 learners per year in simulation center.
2012-present	Chief, Perioperative Services, Baltimore VAMC
2012-present	Member, Perioperative Executive Committee, Baltimore VAMC
2013-present	Chair, Medical Records Committee, Baltimore VAMC Oversee process to reduce delinquent record rate from 55% to 13% over 6 months.
2014-present	Interviewer, UMSOM Admissions Committee
2015-present	Chair, Surgical Process Improvement Committee

2015-present	Baltimore VAMC Member, Executive Process Improvement Committee Baltimore VAMC
2015-present	Co-Chair, UMMC Colon SSI Reduction Task Force
<b><u>National Service</u></b>	
2007-present	Member, Fundamentals of Endoscopic Surgery Committee, SAGES
2007-2012	Faculty Member, Basic Laparoscopy Course, SAGES
2008-present	Member, Guidelines Committee, SAGES
2008-present	<i>Ad hoc</i> reviewer, <i>Surgical Endoscopy</i> 12 manuscripts reviewed per year
2011-present	Faculty Member, Skills Course: Surgical Endoscopy: Advancing MIS and Retooling our Workforce American College of Surgeons Clinical Congress
2013-present	<i>Ad hoc</i> reviewer, <i>Journal of Surgical Research</i> 10 manuscripts reviewed per year
2013-present	Member, Publications Committee Association of Academic Surgery
2013-2015	Member, Open to MIS Committee, SAGES
2013-2014	Faculty Member, CBD Exploration Skills Course, SAGES
2013-present	Course Chair, FES Learning Center, SAGES
2016-present	Member, Acute Care Surgery Task Force, SAGES
2017-present	Leader, Living Guidelines Task Force, SAGES

### **Local Service**

2009-2012	Chair, Young Surgeons Committee, Washington DC Chapter, American College of Surgeons
2009-2012	Director, All-City Grand Rounds, Washington DC
2010-2012	Councilor, Washington DC Chapter, American College of Surgeons
2010-2012	Course Director, Resident Basic Science Review Course, Washington DC Chapter, American College of Surgeons

### **Teaching Service**

#### **Medical Student Teaching**

2012-present	Small group lecture, Hernia, Surgery Clerkship 15 3 <sup>rd</sup> year students, 6 contact hours per year
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2012-present	Skills session leader, Suturing, Surgery Clerkship 8 3 <sup>rd</sup> year students, 48 contact hours per year
2012-present	Faculty, Abdominal Examination, 10 2 <sup>nd</sup> year students, 2 contact hours per year
2012-present	Attending Surgeon, VA General Surgery: inpatient service, outpatient clinic, operating room, small group sessions 2 3 <sup>rd</sup> year medical students, 200 contact hours per year
2013-present	Faculty, Anatomy for Surgery Course 8 4 <sup>th</sup> year students, 4 contact hours per year
2013-present	Faculty, Laparoscopic Skills Session, Surgery Boot Camp, 12 4 <sup>th</sup> year medical students, 3 contact hours per year

### **Resident Teaching**

2012-present	Attending Surgery, VA General Surgery; inpatient service, colonoscopy clinic, outpatient clinic, teaching sessions 2-4 surgery residents, 300 contact hours per year
2012-present	Faculty, Mock Oral Boards 2 surgery residents, 6 contact hours per year
2012-present	Basic and clinical science lecture series Hernia and Foregut sessions 16 surgery residents, 4 contact hours per year
2014-present	Simulation skills session leader Fundamentals of Laparoscopic Surgery 2-4 surgery residents, 50 contact hours/year

### **Grant Support**

#### **Active Grant**

06/01/2014-06/01/2016	Co-investigator (1%) PI: E Ritter Development of a proficiency based training program for FES SAGES Foundation Grant Total Direct Costs: \$30,000
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#### **Completed Grant**

04/21/2014-01/21/2015	Principal Investigator (10%) Thermal Endoscope for Laparoscopic Surgery Maryland Innovation Initiative
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Maryland Technology and Development Corp  
Total Direct Costs: \$100,000

## Publications

### Peer-reviewed journal articles

1. Chao A, **Pearl J**, Perdue PW, Wang D, Bridgeman A, Kennedy SO, Ling G, Rhee P. Utility of routine serial computed tomography for blunt intracranial injury. *J Trauma*. 2001; 51:870-5.
2. **Pearl J**, Ramirez AR, Petruziello M, Perdue PW. Small bowel perforation after a quad cough maneuver. *J Trauma*. 2001; 51: 162-3.
3. **Pearl JP**, Elster EA, Golocovsky M. Nonfunctional islet cell carcinoma of the pancreas. *Am Surg*. 2002; 68: 886-8.
4. **Pearl JP**, McNally MP, Perdue PW. Femoral vessel injury in modern warfare since Vietnam. *Mil Med*. 2003; 168: 733-5.
5. **Pearl JP**, Chao A, Kennedy SO, Rhee P. Penetrating portal vein injury: case series. *J Trauma*. 2004; 56: 779-82.
6. **Pearl JP**, Parris J, Hale DA, Hoffman SC, Bernstein WB, McCoy KL, Swanson SJ, Mannon RB, Roederer M, Kirk AD. Immunocompetent T-cells with a memory phenotype are the dominant cell type following antibody-mediated T-cell depletion. *Am J Transplant*. 2005;5(3):465-74.
7. Preston EH, Xu H, Dhanireddy KK, **Pearl JP**, Leopardi FV, Starost MF, Hale DA, Kirk AD. IDEC-131 (anti-CD154), sirolimus and donor-specific transfusion facilitate operational tolerance in non-human primates. *Am J Transplant*. 2005;5(5):1032-41. (*collected and analyzed data*)
8. **Pearl JP**, McNally MP, Elster EA, DeNobile JW. Benign pneumoperitoneum after colonoscopy: A prospective pilot study. *Mil Med*. 2006; 171(7): 648-9.
9. Marks JM, Ponsky JL, **Pearl JP**, McGee MF. PEG Rescue—A practical NOTES technique. *Surg Endosc* 2007. 21(5): 816-9.  
(*collected and analyzed data*)
10. **Pearl JP**, Xu H, Leopardi F, Preston E, Kirk AD. CD154 Blockade, Sirolimus, and Donor-Specific Transfusion Prevents Renal Allograft

- Rejection in Cynomolgus Monkeys Despite Homeostatic T-Cell Activation. *Transplantation* 2007. 83(9): 1219-1225.
11. Duncan JE, Corwin CH, Sweeney WB, Dunne JR, DeNobile JW, Perdue PW, Galarneau MR, **Pearl JP**. Management of colorectal injuries during Operation Iraqi Freedom: Patterns of stoma usage. *J Trauma* 2008. 64(4) 1043-7.
  12. **Pearl JP**, Marks JM, Hardacre JM, Ponsky JL, Delaney CP, Rosen MJ. Laparoscopic management of complex small bowel obstruction: Is it safe? *Surg Innov* 2008. 15(2) 110-113.
  13. Ponsky LE, Poulouse BK, **Pearl J**, Ponsky JL. Natural orifice transluminal endoscopic surgery: reality or myth? *J Endourol.* 2009; 23(5); 733-5.
  14. Crane NJ, McHone B, Hawksworth J, **Pearl JP**, DeNobile J, Tadaki D, Pinto PA, Levin IW, Elster EA. Enhanced surgical imaging: Laparoscopic vessel identification and assessment of tissue oxygenation. *J Am Coll Surg.* 2008 Jun;206(3):1159-66.
  15. Hoffman SC, **Pearl JP**, Blair PJ, Kirk AD. Immune profiling: molecular monitoring in renal transplantation. *Front Biosc.* 2003; 8: 444-62.
  16. **Pearl JP**, Wind GG, Ritter EM. A meandering external iliac artery: Potential doom outside the triangle. *J Am Coll Surg* 2009. 208(3): 478-9.
  17. **Pearl JP**, Rosen MJ. Second-look laparoscopy after laparoscopic relief of strangulated small bowel obstruction. *Surg Laparosc Endosc Percutan Tech.* 2009 Jun;19(3):241-3.
  18. Elster EA, **Pearl JP**, DeNobile JW, Perdue PW, Stojandinovich A, Liston Wa, Dunne JR. Transforming a military treatment facility into a trauma center: Lessons learned from Operation Iraqi Freedom. *ePlasty* 2009. Jul;24(1): 295-303.
  19. Nikfargam M, McGee MF, Trunzo JA, Onders RP, **Pearl JP**, Poulouse BK, Chak A, Ponsky JL, Marks JM. Transgastric natural orifice transluminal endoscopic surgery peritoneoscopy in humans: a pilot study in efficacy and gastrotomy site selection by using a hybrid technique. *Gastrointest Endoscopy.* 2010; 72(2): 279-83. (*collected and analyzed data*)
  20. Cox TC, **Pearl JP**, Ritter EM. Rives-stoppa abdominal hernia repair combined with laparoscopic components separation of abdominal wall components: a novel approach to complex abdominal wall closure. *Hernia.* 2010; 14(6): 561-7. (*performed surgery, analyzed data*)
  21. Jin J, Williams CP, Soltanian H, Smith MK, **Pearl J**, Sanabria J, Rosen MJ. Use of abdominal wall allotransplantation as an alternative for the

- management of end stage abdominal wall failure in a porcine model. *J Surg Res.* 2010; 162(2): 314-20. (*performed surgery, analyzed data*)
22. **Pearl JP** and Pennypacker JL. Infarction of a lipoma of the lesser omentum; laparoscopic treatment of a rare condition. *Laparosc Endosc Percutan Tech.* 2011; 21(4): 197-9.
  23. **Pearl J**, Price R, Richardson W, Fanelli R. Guidelines for diagnosis, treatment, and use of laparoscopy during pregnancy. *Surg Endosc.* 2011; 25(11): 3479-92.
  24. Lucas DJ, Glaser, JJ, **Pearl JP**. Laparoscopic distal pancreatectomy for retrieval of a proximally migrated pancreatic stent. *JLS.* 2012; 16(1):169-72.
  25. Ritter EM, Cox TC, Trinca KD, **Pearl JP**. Simulated Colonoscopy Objective Performance Evaluation (SCOPE): a non-computer-based tool for assessment of endoscopic skills. *Surg Endosc.* 2013 Nov;27(11):4073-80.
  26. Trinca KD, Cox TC, **Pearl JP**, Ritter EM. Validity evidence for the Simulated Colonoscopy Objective Performance Evaluation scoring system. *Am J Surg.* 2014 Feb;207(2):218-25. (*analyzed data, revised manuscript*)
  27. Hazey JW, Marks JM, Mellinger JD, Trus TL, Chand B, Delaney CP, Dunkin BJ, Fanelli RD, Fried GM, Martinez JM, **Pearl JP**, Poulouse BK, Sillin LF, Vassiliou MC, Melvin WS. Why Fundamentals of Endoscopic Surgery (FES)? *Surg Endosc.* 2014 Mar;28(3):701-3. (*project conception and design*)
  28. **Pearl J**, Fellingner E, Dunkin B, Pauli E, Trus T, Marks J, Fanelli R, Meara M, Stefanidis D, Richardson W. Guidelines for privileging and credentialing physicians in gastrointestinal endoscopy. *Surg Endosc.* 2016 30 (8): 3184-90.

#### **Non-peer-reviewed journal articles**

1. **Pearl JP**, Preston E, Kirk AD. Tolerance: is it achievable in pediatric solid organ transplantation? *Pediatr Clin N Am.* 2003; 50: 1261-81.
2. Ponsky JL, Kalloo AN, **Pearl JP**. How will NOTES influence gastroenterology? *AGA Perspectives* 2007. 3(2):4-5.
3. **Pearl JP**, Marks JM. The future of teaching surgical endoscopy. *Surg Innov.* 2006; 13(4): 280-3.
4. **Pearl JP**, Marks JM. Endolumenal therapies for gastroesophageal reflux disease: are they dead? *Surg Endosc.* 2007; 21(1) 1-4.
5. **Pearl JP**, Ponsky JL. Natural orifice transluminal endoscopic surgery: Past, present, and future. *J Min Access Surg* 2007; 3: 43-46.
6. **Pearl JP**, Ponsky JL. Natural Orifice Transluminal Endoscopic Surgery: A critical review. *J Gastrointest Surg* 2007;
7. **Pearl JP**, Marks, JM, Ponsky JL. Hybrid surgery: combined laparoscopy and natural orifice surgery. *Gastrointest Endosc Clin N Am.* 2008. 18(2): 325-32.



8. **Pearl J.** The power of collaboration between surgery and engineering. *J Surg Res.* 2015 Jul;197(1):65-6.

### **Book Chapters**

1. **Pearl J**, Rosen M, Onders RP. Laparoscopic Inguinal Hernia. In Cameron JL (ed) *Current Surgical Therapy*, 9<sup>th</sup> edition. Elsevier. Philadelphia, PA. 2007.
2. **Pearl JP** and Marks JM. New technology in endoscopy. In: Soper N, Swanstrom LL, Eubanks WS (eds). *Mastery of Laparoscopic and Endoscopic Surgery*, 3<sup>rd</sup> ed . Lippincott Williams and Wilkins. Philadelphia. 2009.
3. **Pearl JP** and Ponsky JL. The dominant role of endoscopy in gastrointestinal surgery. In: Soper N, Swanstrom LL, Eubanks WS (eds). *Mastery of Laparoscopic and Endoscopic Surgery*, 3<sup>rd</sup> ed . Lippincott Williams and Wilkins. Philadelphia. 2009.
4. **Pearl JP** and Ponsky JL. Endoscopic treatment for gastroesophageal reflux. In: Zwischenberger JB, Townsend Jr, CM, Evers, BM (eds). *Atlas of Thoracic Surgical Techniques*. Elsevier. Philadelphia, PA. 2010.
5. Ponsky JL and **Pearl JP**. Upper and lower endoscopy. In: Fischer JE (ed). *Mastery of Surgery*. Lippincott Williams & Wilkins. Philadelphia, PA. 2012.
6. **Pearl JP** and Ritter EM. Stagnated inguinal hernia. In: Jacob BP and Ramshaw B (eds.), *The SAGES Manual of Hernia Repair*. Springer. New York, NY. 2013.
7. **Pearl JP**. Esophagus. In: Jarrell BE and Kavic SM. *NMS Surgery*, 6<sup>th</sup> ed. Lippincott Williams and Wilkins. Philadelphia. 2015.

### **Major Invited Speeches**

#### **Local**

1. Pearl, J., Natural Orifice Surgery, DC Chapter ACS, Washington, 2007.
2. Pearl, J., New treatments for GERD, DC Chapter ACS, Washington, 2008.

#### **National**

3. Pearl, J., Abdominal Wall Reconstruction of Wounded Warriors SAGES, San Antonio, 2011.
4. Pearl, J. Acute Care Surgery: Laparoscopy in the Pregnant Patient SAGES, Nashville, 2015.

**International**

5. Pearl, J. Natural Orifice Surgery. Emerging Technology Session. International Symposium of Military Surgeons. Hamburg, Germany. 2007.

