

NAME: Peter A. Walker, MD, FACS, FASMBS

PRESENT TITLE: Assistant Professor
Division of Elective General Surgery
University of Texas Medical School at Houston
McGovern Medical School

ADDRESS: University of Texas Medical School at Houston
McGovern Medical School
Department of Surgery, Division of Elective General Surgery
6431 Fannin Street Houston, TX 77030

CITIZENSHIP: United States of America

UNDERGRADUATE EDUCATION:

1998-2002 University of Missouri, Columbia, Missouri
Bachelor of Science in Chemical Engineering
Magna Cum Laude

GRADUATE EDUCATION:

2002-2006 Saint Louis University School of Medicine, St Louis,
Missouri
Doctor of Medicine

POST-GRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

2006-2007 McGovern Medical School at UT Health
Department of Surgery
General Surgery Intern

2007-2008 McGovern Medical School at UT Health
Department of Surgery
General Surgery Resident

2008-2010 McGovern Medical School at UT Health
Departments of Pediatric Surgery and Surgery

NIH T32 Postdoctoral Research Fellowship
Mentor: Charles S. Cox, Jr, MD

2010-2012 McGovern Medical School at UT Health
Department of Surgery
General Surgery Resident

2012-2013 McGovern Medical School at UT Health
Department of Surgery
General Surgery Chief Resident

2013-2014 McGovern Medical School at UT Health
Department of Surgery
Minimally Invasive/Robotic Surgery Fellow

ADVANCED TRAINING

2014 Apollo Endosurgery
OverStitch™ Endoscopic Suturing System

2014 Medigus, Ltd
MUSE™ Transoral Fundoplication for GERD

2014 EndoGastric Solutions, Inc
EsophyX® for Transoral Incisionless Fundoplication
(TIF)

2017 Torax Medical, Inc
Magnetic Sphincter Augmentation (LINX®)

2018 Horty Springer Medical Leadership Conference
Naples, FL

ACADEMIC APPOINTMENTS:

2013-2014 Clinical Instructor
Department of Surgery
Division of Minimally Invasive and Elective General Surgery
McGovern Medical School at UT Health
Houston, TX

2014-2017 Assistant Professor of Surgery
Department of Surgery
Division of Minimally Invasive and Elective General Surgery
McGovern Medical School at UT Health
Houston, TX

HOSPITAL APPOINTMENTS:

2017-Present Health First Viera Hospital (Viera, FL)
2017-Present Health First Palm Bay Hospital (Palm Bay, FL)

2013-2017 Memorial Hermann – Texas Medical Center
2013-2017 Harris Health – Lyndon Baines Johnson (LBJ) General
Hospital

2014-2017 Memorial Hermann Sugar Land Hospital
2014-2017 Memorial Hermann Katy Hospital
2015-2016 Physicians SurgiCenter of Houston
2013 Houston Hospital for Specialized Surgery

LICENSURE: Texas Medical Board – N1212 (Active)

Florida Board of Medicine – ME132404 (Active)
Controlled Substances Registration, Texas Department of Public Safety
Controlled Substances Registration, Drug Enforcement Administration

CERTIFICATION: Advanced Cardiac Life Support
Advanced Trauma Life Support
Fundamentals of Laparoscopic Surgery
American Board of Surgery

PROFESSIONAL ORGANIZATIONS (CURRENT):

American College of Surgeons – Fellow
American Society for Metabolic and Bariatric Surgery - Fellow
Society of American Gastrointestinal and Endoscopic Surgeons
Alpha Omega Alpha Medical Honor Society

HONORS/AWARDS:

- 2009 Resident Award for Outstanding Research Project (First Place)
South Texas Chapter, American College of Surgeons, 2009
- 2010 Resident Award for Outstanding Research Project (First Place)
South Texas Chapter, American College of Surgeons, 2010 Annual Meeting
- 2010 First place, Surgical Jeopardy
McGovern Medical School at UT Health (Peter Walker and Tsuyoshi Kaneko); South Texas Chapter, American College of Surgeons, 2010 Annual Meeting
- 2011 Resident Award for Outstanding Research Project (Second Place)
South Texas Chapter, American College of Surgeons, 2011 Annual Meeting
- 2012 Alpha Omega Alpha Medical Honor Society, Delta Chapter

EDITORIAL POSITIONS:

- 2009-2011 Tissue Engineering (Ad hoc reviewer)
- 2011 British Medical Bulletin (Ad hoc reviewer)
- 2012 American Journal of Stem Cells (Associate editorial board)

SERVICE ON MCGOVERN MEDICAL SCHOOL AT UT HEALTH DEPARTMENTS AND COMMITTEES:

- 2008-2009 Educational Advisory Committee, Department of Surgery
- 2012-2013 Educational Advisory Committee, Department of Surgery
- 2014-2017 Assistant Program Director, Minimally Invasive Surgery Fellowship, Department of Surgery

SERVICE ON HOSPITAL SYSTEM COMMITTEES:

2014-2017	Quality Committee (Memorial Hermann Katy Hospital)
2014-2017	Chief of Bariatric Surgery (Memorial Hermann Katy Hospital)
2014-2015	Vice Chair, Surgery (Memorial Hermann Katy Hospital)
2015-2016	Chair, Surgery (Memorial Hermann Katy Hospital)
2015-2017	Member Bariatric Service Line CPC Committee (Memorial Hermann Katy)
2015-2017	Member Robtoic Service Line CPC Committee (Memorial Hermann Katy)
2017-2019	Quality Committee (Health First Palm Bay Hospital)
2019-Present	Director of Bariatric Surgery (Health First Viera Hospital)

MENTORSHIP OF UNDERGRADUATE STUDENTS:

2009	Huram Mok (2009, STEP-UP Clinical and Research Internship, McGovern Medical School at UT Health); Project: Autologous mononuclear progenitor cell injection for traumatic brain injury: the effect of injury cavity volume on potential neuroprotection
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MENTORSHIP OF MEDICAL STUDENTS:

2009	Brooke Huffsmith (2009, Summer Medical Student Research Program, McGovern Medical School at UT Health); Project: Autologous mononuclear progenitor cell injection for traumatic brain injury: the effect of injury cavity volume on potential neuroprotection
2015	Monica Rosales Santilan (2015, Dean's Sponsored Summer Research Internship); Project: Retrospective review evaluating robotic assisted and laparoscopic incisional hernia repair.

COURSE FACULTY:

2017	Faculty, Hernia Hands-On Lab, Advanced Abdominal Wall Reconstruction Course, 2017 Texas ACS Joint Annual Meeting, Austin, TX. February 27, 2017.
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PAST GRANT SUPPORT:

1. BD Biosciences, Inc (2010): \$10,000.00; Project: T regulatory cells as a therapeutic target for progenitor cells in traumatic brain injury (TBI). **Principal Investigator**
2. neoSurgical: \$184,006 (2015-2018); Project: Prospective, single blinded, randomized trial evaluating effectiveness of Neo Close fascial closure device versus Carter Thomason suture passer. **Principal Investigator**

PUBLICATIONS:

ABSTRACTS:

LOCAL/REGIONAL:

1. **Walker PA**, Harting MT, Pati S, Jimenez F, Dash PK, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Implications for intracranial inflammation depending upon timing, delivery, and target cell type. Mission Connect Symposium, Houston, TX. December 8, 2008.
2. **Walker PA**, Jimenez F, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Effect of serum osmolarity on progenitor cell viability and pro-inflammatory cytokine production. South Texas Chapter, American College of Surgeons Annual Meeting, Houston, TX. February 21, 2009.
3. Mok H, Huffsmith BA, **Walker PA**, Gill BS, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury (TBI). The University of Texas MD Anderson Cancer Center Step Up 2009 Research Symposium, Houston, TX. July 31, 2009.
4. Shah SK, Jimenez F, **Walker PA**, Xue H, Aroom KR, Norbury KC, Stewart RH, Laine GA, Cox CS Jr. Peritoneal fluid (PF) from an animal model of abdominal compartment syndrome (ACS) induces priming of naïve polymorphonuclear leukocytes (PMNs). South Texas Chapter, American College of Surgeons Annual Meeting, Austin, TX. February 25-27, 2010.
5. **Walker PA**, Jimenez F, Shah SK, Huffsmith BS, Dash PK, Cox CS Jr. Autologous mononuclear progenitor cell injection for traumatic brain injury (TBI): the effect of injury cavity volume on potential neuroprotection. South Texas Chapter, American College of Surgeons Annual Meeting, Austin, TX. February 26, 2010.
6. **Walker PA**, Jimenez F, Shah SK, Xue H, Hamilton JA, Mays RW, Deans R, Pati S, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Modulation of the resident neuronal macrophage population. South Texas Chapter, American College of Surgeons Annual Meeting, Houston, TX. February 26, 2011.
7. Shah SK, Cox CS Jr, Xue H, Aroom KR, **Walker PA**, Gill BS, Jimenez F, Moore-Olufemi SD. Non-occlusive mesenteric hypertension: Elucidating the pathophysiology of gastroschisis-related intestinal dysfunction. South Texas Chapter, American College of Surgeons Annual Meeting, Houston, TX. February 24-26, 2011.
8. Liao GP, Hetz RA, **Walker PA**, Shah SK, Jimenez F, Kosmach S, Day MC, Lee DA, Worth LL, Cox CS. Autologous bone marrow mononuclear cells reduce therapeutic intensity for severe traumatic brain injury in children. South Texas Chapter, American College of Surgeons Annual Meeting, Houston, TX. February 20-22, 2014.
9. Perez C, Santillan MR, Bajwa K, Mehta S, Snyder B, Wilson T, Wilson EB, Shah SK, **Walker PA**. Retrospective comparison of robotic versus laparoscopic ventral hernia repair: does robotics improve outcomes? South Texas Chapter, American College of Surgeons Annual Meeting, San Antonio, TX. February 25-27, 2016.
10. Holton NF, Felinski MM, Mehta SS, Bajwa KS, Snyder BE, Wilson TD, **Walker PA**, Chandwani KD, Klein CL, Rivera AR, Wilson EB, Shah SK. Safety of robotic assisted

laparoscopic recurrent paraesophageal hernia repair: insights from a large single institution experience. Annual Meeting, South Texas Chapter, American College of Surgeons Annual Meeting, February 22-24, 2018, Houston, TX

NATIONAL:

1. Radhakrishnan RS, Shah SK, Lance SH, Radhakrishnan HR, Xue H, Radhakrishnan GL, Ramaswamy US, **Walker PA**, Uray KS, Cox CS Jr. Hypertonic saline alters hydraulic permeability and upregulates aquaporin 4. The 4th Annual Academic Surgical Congress, Fort Myers, FL. February 3-6, 2009. *Journal of Surgical Research* 2009, 151(2): 215.
2. **Walker PA**, Jimenez F, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Effect of serum osmolarity on progenitor cell viability and pro-inflammatory cytokine production. Shock Society, San Antonio, TX. June 6-9, 2009. *Shock* 2009; 31(7) Suppl 1: 86.
3. **Walker PA**, Harting MT, Jimenez F, Pati S, Dash PK, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury increases pro-inflammatory cytokine production via NFkB activation independent of the PI3 kinase pathway. The 95th Annual Clinical Congress, American College of Surgeons, Chicago, IL. October 11-15, 2009. *Journal of the American College of Surgeons* 2009; 191(4); Supplement 1; Page S85.
4. Cox CS, Baumgartner JE, Worth L, Harting MT, Ewing-Cobbs L, Gee A, Hasan K, Shah S, **Walker P**, Day M. Phase 1 clinical trial of autologous bone marrow mononuclear cells for pediatric severe traumatic brain injury. 2009 Annual Meeting, Congress of Neurosurgical Surgeons, New Orleans, LA. October 24-29, 2009. *Neurosurgery* 2009; 65(2): 412.
5. **Walker PA**, Jimenez F, Shah SK, Huffsmith BS, Dash PK, Cox CS Jr. Autologous mononuclear progenitor cell injection for traumatic brain injury (TBI): The effect of injury cavity volume on potential neuroprotection. The 5th Annual Academic Surgical Congress, San Antonio, TX. February 3-5, 2010. *Journal of Surgical Research* 2010; 158(2): 378-9.
6. **Walker PA**, Jimenez F, Aroom KR, Gill BS, Savitz SI, Cox CS Jr. Effect of needle diameter and flow rate on mesenchymal stromal cell (MSC) cell characterization and viability. The 5th Annual Academic Surgical Congress, San Antonio, TX. February 3-5, 2010. *Journal of Surgical Research* 2010; 158(2): 382.
7. **Walker PA**, Wang YX, Shah SK, Jimenez F, Cox CS Jr, Hayes-Jordan A. Mesenchymal stem cell treatment reduces tumor growth and pulmonary metastasis in Ewing's sarcoma. The 5th Annual Academic Surgical Congress, San Antonio, TX. February 3-5, 2010. *Journal of Surgical Research* 2010; 158(2): 400.
8. Shah SK, Jimenez F, **Walker PA**, Xue H, Aroom KR, Norbury KC, Stewart RH, Laine GA, Cox CS Jr. Peritoneal fluid primes naïve neutrophils in an animal model of abdominal compartment syndrome. The 5th Annual Academic Surgical Congress, San Antonio, TX. February 3-5, 2010. *Journal of Surgical Research* 2010; 158(2): 293.
9. Shah SK, Jimenez F, **Walker PA**, Xue H, Uray KS, Aroom KR, Fischer UM, Norbury KC, Stewart RH, Laine GA, Cox CS Jr. A novel physiologic model for the study of abdominal compartment syndrome (ACS). The 5th Annual Academic Surgical Congress, San Antonio, TX. February 3-5, 2010. *Journal of Surgical Research* 2010; 158(2): 423.

10. **Walker PA**, Shah SK, Jimenez F, Pati S, Dash PK, Cox CS Jr. Autologous bone marrow mononuclear cell injection offers neuroprotection after traumatic brain injury (TBI) in a rodent model. The 8th Annual Meeting, International Society of Stem Cell Research, San Francisco, CA. June 16 – 19, 2010.
11. Pati S, Gerber MH, Jimenez F, **Walker PA**, Cox CS Jr, Dash PK, Holcomb J. Systemic effects of human mesenchymal stem cells on vascular permeability and angiogenesis are mediated by cell to cell contact through modulation of the VE-cadherin-beta-catenin signaling pathway. The 8th Annual Meeting, International Society of Stem Cell Research, San Francisco, CA. June 16 – 19, 2010.
12. Shah SK, Moore-Olufemi SD, Uray KS, Jimenez F, **Walker PA**, Xue H, Stewart RH, Laine GA, Cox CS Jr. A novel murine model for the study of edema-induced intestinal contractile dysfunction. 2010 Joint International Meeting in Neurogastroenterology and Motility, Boston, MA. August 26-29, 2010. *Neurogastroenterology and Motility* 2010; 22(S1): 28.
13. Moore-Olufemi SD, Shah SK, Xue H, Jimenez F, **Walker P**, Cox CS Jr. A novel postnatal animal model to study gastroschisis-related gut dysfunction. 2010 Joint International Meeting in Neurogastroenterology and Motility, Boston, MA. August 26-29, 2010. *Neurogastroenterology and Motility* 2010; 22(S1): 88.
14. **Walker PA**, Jimenez F, Shah SK, Gerber MH, Xue H, Mays RW, Deans R, Pati S, Dash PK, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Preserving the blood brain barrier via an interaction with splenocytes. The 96th Annual Clinical Congress, American College of Surgeons, Washington, DC. October 3-7. 2010. *Journal of the American College of Surgeons* 2010; 311(3S): S94.
15. Shah SK, Cox CS Jr, Xue H, Jimenez F, **Walker PA**, Moore-Olufemi SD. Gastroschisis-related intestinal dysfunction: development and characterization of a novel postnatal rat model. The 96th Annual Clinical Congress, American College of Surgeons, Washington DC. October 3-7, 2010. *Journal of the American College of Surgeons* 2010; 311(3S): S69.
16. Shah SK, Jimenez F, **Walker PA**, Xue H, Feeley TD, Uray KS, Norbury KC, Stewart RH, Laine GA, Cox CS Jr. Peritoneal fluid as a novel mechanism for neutrophil priming in a clinically relevant model of intra-abdominal sepsis. The 96th Annual Clinical Congress, American College of Surgeons, Washington, DC. October 3-7. 2010. *Journal of the American College of Surgeons* 2010; 311(3S): S43.
17. Cox CS, **Walker PA**, Shah SK, Jimenez F, Pati S, Dash PK, Mays PW, Deans R, Xue H, Bedi S. Microglial phenotype modulation after TBI via progenitor cell:splenocyte interactions. 2010 Annual Meeting of The Society of Leukocyte Biology and The International Endotoxin and Innate Immunity Society, Vancouver, BC, Canada. October 7-9, 2010.
18. Shah S, Jimenez F, **Walker P**, Xue H, Uray K, Norbury K, Stewart R, Laine G, Cox C Jr. Evaluating the effects of immediate application of negative pressure therapy after decompression from abdominal compartment syndrome: a pre-clinical study. 40th Critical Care Congress, Society of Critical Care Medicine, San Diego, CA. January 15-19, 2011. *Critical Care Medicine* 2010; 38 (12 Supplement): 199.

19. Shah S, Jimenez F, **Walker P**, Xue H, Uray K, Norbury K, Stewart R, Laine G, Cox C Jr. Effect of early negative pressure therapy (NPT) on pro-inflammatory characteristics of peritoneal fluid (PF) and plasma in abdominal compartment syndrome (ACS). 40th Critical Care Congress, Society of Critical Care Medicine, San Diego, CA. January 15-19, 2011. *Critical Care Medicine* 2010; 28 (12 Supplement): 200.
20. Shah SK, Cox CS Jr, Xue H, Aroom KR, **Walker PA**, Gill BS, Jimenez F, Moore-Olufemi SD. Non-occlusive mesenteric hypertension: Elucidating the pathophysiology of gastroschisis-related intestinal dysfunction. The 6th Annual Academic Surgical Congress, Huntington Beach, CA. February 1-3, 2011. *Journal of Surgical Research* 2011; 165(2): 180.
21. **Walker PA**, Jimenez F, Shah SK, Xue H, Hamilton JA, Mays RW, Deans R, Pati S, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Modulation of the resident neuronal macrophage population. The 6th Annual Academic Surgical Congress, Huntington Beach, CA. February 1-3, 2011. *Journal of Surgical Research* 2011; 165(2): 206.
22. Norbury KC, Shah SK, Jimenez F, **Walker PA**, Uray KS, Cox CS Jr. Using flow cytometry to measure signaling by peripheral blood leukocytes through CD11b/CD18 receptors during sepsis in a porcine model. 31st Annual Meeting of the Surgical Infection Society, Palm Beach, FL. May 11-14, 2011. *Surgical Infections* 2011; 12 (Supplement 1): S68.
23. Bedi S, **Walker P**, Shah S, Jimenez F, Smith P, Hamilton J, Mays R, Pati S, Dash P, Cox C. Multipotent adult progenitor cell therapy for traumatic brain injury: modulation of microglia. National Neurotrauma Symposium 2011, July 10-13, 2011, Ft Lauderdale, FL. *Journal of Neurotrauma* 2011; 28(6): A110.
24. Letourneau PA, Shah SK, Jimenez F, **Walker PA**, Wade CE, Pati S, Holcomb JB, Cox CS Jr. Stored plasma is associated with enhanced priming of naive neutrophils. The 7th Annual Academic Surgical Congress, Las Vegas, NV. February 14-16, 2012. *Journal of Surgical Research* 2012; 172(2): 327.
25. Hetz RA, Bedi SS, **Walker PA**, Shah SK, Jimenez F, Thomas CP, Smith P, Pati S, Dash P, Cox CS Jr. Autologous cellular therapy for traumatic brain injury: mechanism of action. The 98th Annual Clinical Congress, American College of Surgeons, Chicago, IL. September 30-October 4, 2012. *Journal of the American College of Surgeons* 2012; 215(3): S53.
26. Bedi SS, **Walker P**, Shah S, Jimenez F, Thomas C, Smith P, Hetz R, Hamilton J, Mays RW, Cox CS. Multipotent adult progenitor cell therapy for traumatic brain injury: systemic modulation of microglia. Congress of Neurological Surgeons 2012 Annual Meeting, Chicago, IL. October 6-10, 2012. *Neurosurgery* 2012; 71(2): E544.
27. **Walker P**, Shah S, Bajwa K, Mehta S, Snyder B, Wilson E, Wilson, T. Endoscopic retrieval of obstructive gastric bands: A developing institutional experience. 18th World Congress of International Federation for the Surgery of Obesity and Metabolic Disorders, Istanbul, Turkey. August 28-31, 2013.
28. Shah SK, **Walker PA**, Mehta SS, Wilson EB, Patel MK, Gregoric ID, Nathan SS, Bajwa KS. The "sleeve of life": First report of concurrent laparoscopic sleeve gastrectomy (LSG) and left ventricular assist device (LVAD) placement as a bridge to heart transplant for morbidly obese patients. Internal Federation for the Surgery of Obesity and Metabolic Disorders 2014 World Congress, Montreal, Canada, August 26-30, 2014. *Obesity Surgery* 2014; 24(8): 1277.

29. **Walker PA**, Shah SK, Agarwal AK, Wilson EB, Bajwa KS, Mehta SS. Unusual complications of retained adjustable gastric band (AGB) tubing. Internal Federation for the Surgery of Obesity and Metabolic Disorders 2014 World Congress, Montreal, Canada, August 26-30, 2014. *Obesity Surgery* 2014; 24(8): 1277.
30. **Walker PA**, Shah SK, Agarwal AK, Wilson EB, Snyder BE. Endoscopic removal of an eroded adjustable gastric band (AGB) in a pregnant patient: report of technique. Internal Federation for the Surgery of Obesity and Metabolic Disorders 2014 World Congress, Montreal, Canada, August 26-30, 2014. *Obesity Surgery* 2014; 24(8): 1179.
31. Liao GP, Hetz RA, **Walker PA**, Shah SK, Jimenez F, Kosmach S, Day MC, Lee DA, Worth LL, Cox CS. Autologous bone marrow mononuclear cells reduce therapeutic intensity for severe traumatic brain injury in children. Clinical Congress 2014, American College of Surgeons, Chicago, IL. October 26-30, 2014. *Journal of the American College of Surgeons* 2014; 219(3 Supplement): S136.
32. Shah SK, **Walker PA**, Levy SM, Mehta SS, Snyder BE, Wilson TD, Bajwa KS, Wilson EB. Totally robotic repair of a large paraesophageal hernia with Toupet fundoplication. 6th Annual Clinical Robotic Surgery Association Worldwide Congress, San Francisco, CA, Oct 23-25, 2014. (Video)
33. Perez C, Santillan MR, Bajwa K, Mehta S, Snyder B, Wilson T, Wilson EB, Shah SK, **Walker PA**. Retrospective comparison of robotic versus laparoscopic ventral hernia repair: does robotics improve outcomes? Southwestern Surgical Congress 2016 Annual Meeting, Coronado, CA, April 3-6, 2016.
34. Kannappan A, **Walker PA**, Primomo JA, Kar B, Loyolka P, Gregoric I, Nathan S, Husain R, Akkanti B, Kajese T, Mehta S, Bajwa KS, Shah SK. Veno-venous extra corporeal membrane oxygenation as rescue therapy for severe aspiration pneumonitis after bariatric surgery. SAGES 2017, Houston, TX, March 22-25, 2017. *Surgical Endoscopy* 2017; 31: S167.
35. **Walker P**, May AC, Santillan MR, Shah SK, Wilson EB, Liang M, Tsuda S. Multicenter review of robotic versus laparoscopic ventral hernia repair: is there a role for robotics? SAGES 2017, Houston, TX, March 22-25, 2017. *Surgical Endoscopy* 2017; 31: S29.
36. **Walker P**, Hall J, Bajwa K, Mehta S, Wilson T, Snyder B, Rivera A, Klein C, Shah S, Wilson E. Trocar site closure with a novel anchor based (Neoclose®) system versus standard suture closer: Preliminary results from a prospective randomized controlled trial. 16th World Congress of Endoscopy Surgery, April 11-14, 2018, Seattle, WA. *Surgical Endoscopy* 2018, 32: S270.
37. Holton NF, Felinski MM, Mehta SS, Bajwa KS, Snyder BE, Wilson TD, **Walker PA**, Chandwani KD, Klein CL, Rivera AR, Wilson EB, Shah SK. Safety of robotic assisted laparoscopic recurrent paraesophageal hernia repair: insights from a large single institution experience. 16th World Congress of Endoscopy Surgery, April 11-14, 2018, Seattle, WA. *Surgical Endoscopy* 2018, 32: S19.

PEER REVIEWED:

ORIGINAL CONTRIBUTIONS:

1. Harting MT, Cox CS Jr, Day MC, **Walker P**, Gee A, Brenneman M, Grotta J, Savitz S. 2009. Bone marrow derived mononuclear cell populations in pediatric and adult patients. *Cytotherapy*. 11(4): 480-4.
2. Radhakrishnan RS, Shah SK, Lance SH, Radhakrishnan HR, Hasen X, Radhakrishnan GL, Ramaswamy US, **Walker PA**, Uray KS, Laine GA, Stewart RH, Cox CS Jr. 2009. Hypertonic saline alters hydraulic conductivity and upregulates mucosal/submucosal aquaporin 4 in resuscitation induced intestinal edema. *Critical Care Medicine*. 37(11): 2946-52.
3. **Walker PA**, Harting MT, Jimenez F, Shah SK, Pati S, Dash PK, Cox, CS Jr. 2010. Direct intrathecal implantation of mesenchymal stromal cells leads to enhanced neuroprotection via an NFkB mediated increase in Interleukin 6 (IL-6) production. *Stem Cells and Development*. 19(6): 867-76.
4. Shah SK, Jimenez F, **Walker PA**, Xue H, Uray KS, Aroom KR, Fischer UW, Laine GA, Stewart RH, Norbory KC, Cox CS Jr. 2010. A novel physiologic model for the study of abdominal compartment syndrome. *J Trauma*. 68(3): 682-9.
5. **Walker PA**, Jimenez F, Cox CS Jr. 2010. Progenitor cell therapy for traumatic brain injury (TBI): Effect of serum osmolarity on cell viability and cytokine production. *Regenerative Medicine*. 5(1): 65-71.
6. Shah SK, Fogle LN, Aroom KR, Gill BS, Moore-Olufemi SD, Jimenez F, Uray KS, **Walker PA**, Stewart RH, Laine GA, Cox CS Jr. 2010. Hydrostatic intestinal edema induced signaling pathways: potential role of mechanical forces. *Surgery*. 147(6): 772-9.
7. **Walker P**, Jimenez F, Gerber M, Aroom K, Shah SK, Harting MT, Gill BS, Savitz S, Cox CS Jr. 2010. Effect of needle diameter and flow rate on mesenchymal stromal cell (MSC) characterization and viability. *Tissue Engineering Part C Methods*. 16(5): 989-97.
8. El-Khoury R, Misra V, Sharma S, Cox CS Jr, **Walker PA**, Grotta JC, Gee A, Suzuki S, Savitz SI. 2010. The effect of transcatheter injections on cell viability and cytokine release of mononuclear cells. *American Journal of Neuroradiology*. 31(8): 1488-92.
9. Shah SK, Xue H, Jimenez F, Kots AY, Choi BK, Uray KS, **Walker PA**, Moore-Olufemi SD, Velez N, Stewart RH, Laine GA, Cox CS Jr. 2010. Evaluating the potential role of nitric oxide as a mediator of hydrostatic edema mediated intestinal contractile dysfunction. *Journal of Surgical Research*. 163(1): 102-9.
10. Shah SK, Moore-Olufemi SD, Uray KS, Jimenez F, **Walker PA**, Xue H, Stewart RH, Laine GA, Cox CS Jr. 2010. A murine model for the study of edema induced intestinal contractile dysfunction. *Neurogastroenterology and Motility*. 22(10): 1132-e290.
11. **Walker PA**, Shah SK, Jimenez F, Gerber MH, Xue H, Mays RW, Deans R, Pati S, Dash PK, Cox CS Jr. 2010. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Preserving the blood brain barrier via an interaction with splenocytes. *Experimental Neurology*. 225(2): 341-52.

12. Shah SK, Jimenez F, **Walker PA**, Aroom KR, Xue H, Feeley TD, Uray KS, Norbury KC, Stewart RH, Laine GA, Cox CS Jr. 2010. A novel mechanism for neutrophil priming in trauma: potential role of peritoneal fluid. *Surgery*. 148(2): 263-270.
13. Pati S, Gerber M, Menge T, Wataha K, Zhao Y, Baumgartner A, Zhao J, Letourneau P, Huby M, Salbury J, Baer L, Kozar R, Wade C, **Walker PA**, Dash PK, Cox CS Jr, Holcomb JB. 2011. Bone marrow derived mesenchymal stem cells inhibit inflammation and preserve vascular endothelial integrity in the lungs after hemorrhagic shock. *Plos One*. 6(9): e25171.
14. Uray KS, Shah SK, Radhakrishnan RS, Jimenez F, **Walker PA**, Stewart RH, Laine GA, Cox CS Jr. 2011. Sodium hydrogen exchanger as a mediator of hydrostatic edema induced intestinal contractile dysfunction. *Surgery*. 149(1): 114-25.
15. Cox CS Jr, Baumgartner JE, Harting MT, Worth L, **Walker PA**, Shah SK, Ewing-Cobbs L, Hasen K, Day MC, Lee D, Jimenez F, Gee A. 2011. Phase I clinical trial of autologous bone marrow mononuclear cells for severe traumatic brain injury in children. *Neurosurgery*. 68(3): 588-600.
16. Shah SK, Jimenez F, **Walker PA**, Xue H, Feeley TD, Uray KS, Norbury KC, Stewart RH, Laine GA, Cox CS Jr. 2012. Peritoneal fluid: A potential mechanism of systemic neutrophil priming in experimental intra-abdominal sepsis. *American Journal of Surgery*. 203(2): 211-6.
17. Shah SK, Jimenez F, **Walker PA**, Xue H, Uray KS, Norbury KC, Stewart RH, Laine GA, Cox CS Jr. 2012. Evaluating the effects of immediate application of negative pressure therapy after decompression from abdominal compartment syndrome: a pre-clinical study. *European Journal of Trauma and Emergency Surgery* 38(1): 65-73.
18. **Walker PA**, Shah SK, Jimenez F, Aroom KR, Harting MT, Cox CS Jr. 2012. Cytokine and growth factor production after progenitor cell therapy for traumatic brain injury is secondary to non-neurologic interactions: An alternative mechanism of action. *Surgery*. 152(5): 790-3.
19. Shah SK, Aroom KR, **Walker PA**, Xue H, Jimenez F, Gill BS, Cox CS, Jr, Moore-Olufemi SD. 2012. Effects of non-occlusive mesenteric hypertension on intestinal function: Implications for gastroschisis-related intestinal dysfunction. *Pediatric Research*. 71(6): 668-74.
20. **Walker PA***, Bedi S*, Shah SK, Jimenez F, Xue H, Hamilton JA, Smith P, Thomas CP, Mays RW, Pati S, Cox CS Jr. 2012. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Modulation of the resident neuronal macrophage population. *J Neuroinflammation*. 9:228.
*indicating equal contribution and designation as co first authors.
21. Bedi SS*, **Walker PA***, Shah SK, Jimenez F, Thomas CP, Smith P, Xue H, Pati S, Dash PK, Cox CS Jr. 2013. Autologous bone marrow mononuclear cell therapy attenuates the pro-inflammatory microglial response and improves spatial learning after traumatic brain injury. *Journal of Trauma and Acute Care Surgery*. 75(3): 410-6.
*indicating equal contribution and designation as co first authors.
22. Hayes-Jordan A, Wang Y, **Walker PA**, Cox CS. 2014. Mesenchymal Stromal Cell Dependent Regression of Pulmonary Metastasis from Ewing's Sarcoma. *Frontiers in Pediatrics*. 2:44.

23. Liao GP, Harting MT, Hetz RA, **Walker PA**, Shah SK, Corkins CJ, Jimenez F, Kosmach SC, Day MC, Tsao K, Lee DA, Worth LL, Cox CS Jr. 2015. Autologous bone marrow mononuclear cells reduce therapeutic intensity for severe traumatic brain injury in children. *Pediatric Critical Care Medicine*. 16(3): 245-55.
24. Shah SK, Gregoric ID, Nathan SS, Akkanti BH, Kar B, Bajwa KS, and the LVAD/Sleeve Gastrectomy Collaborative Group*. 2015. Concurrent left ventricular assist device placement and laparoscopic sleeve gastrectomy as a bridge to transplant for morbidly obese patients with severe heart failure. *The Journal of Heart and Lung Transplantation*. 34(11): 1489-91.

* LVAD/Sleeve Gastrectomy Collaborative Group: (Shinil K. Shah, DO; **Peter A. Walker, MD**; Sheilendra S. Mehta, MD; Erik B. Wilson, MD; Manish K. Patel, MD; Igor D. Gregoric, MD; Jayesh A. Patel, MD; Sriram S. Nathan, MD; Bindu H. Akkanti, MD; Rahat Hussain, MD; Indranee N. Rajapreyar, MD; Farshad Raissi, MD, MPH; Mehmet H. Akay, MD; Pranav Loyalka, MD; Biswajit Kar, MD; and Kulvinder S. Bajwa, MD)
25. **Walker PA**, Shah SK, Wilson EB. 2016. Preclinical study evaluating a novel trocar site closure system. *Open Access Surgery*. 9: 29-35.
26. **Walker PA**, May AC, Mo J, Cherla DV, Rosales-Santillan M, Kim S, Ryan H, Shah SK, Wilson EB, Tsuda S. 2018. Multicenter review of robotic versus laparoscopic ventral hernia repair: is there a role for robotics? *Surgical Endoscopy*. 32(4): 1901-05.
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2. **Walker PA**, Aroom K, Jimenez F, Shah SK, Harting MT, Gill BS, Cox CS Jr. 2009. Advances in progenitor cell therapy using scaffolding constructs for central nervous system injury. *Stem Cell Reviews and Reports*. 5(3): 283-300.
3. **Walker PA**, Harting MT, Baumgartner JE, Fletcher S, Strobel N, Cox CS Jr. 2009. Modern approaches to pediatric brain injury therapy. *Journal of Trauma*. 67(2 supp): S120-7.

4. **Walker PA**, Harting MT, Shah SK, Cox CS Jr. 2010. Current trends in cell therapy for pediatric acquired brain injury. *Minerva Pediatrica*. 62(1): 91-106.
5. **Walker PA**, Harting MT, Shah SK, Day MC, El Khoury R, Savitz SI, Baumgartner J, Cox CS Jr. 2010. Progenitor cell therapy for the treatment of central nervous system injury: a review of the state of current clinical trials. *Stem Cells International*. 2010(Article ID 369578): Available at: <http://www.sage-hindawi.com/journals/sci/2010/369578.html>.
6. **Walker PA**, Letourneau PA, Bedi S, Shah SK, Jimenez F, Cox CS Jr. 2011. Progenitor cells as remote "bioreactors": Neuroprotection via modulation of the systemic inflammatory response. *World Journal of Stem Cells*. 3(2): 9-18.
7. Shah SK, **Walker PA**, Moore-Olufemi SD, Sundaresan A, Kulkarni AD, Andrassy RJ. 2011. An evidence-based review of a *Lentinula edodes* mushroom extract as complementary therapy in the surgical oncology patient. *Journal of Parenteral and Enteral Nutrition*. 35(4): 449-58.
8. **Walker PA**, Shah SK, Cox CS Jr. 2011. Progenitor cell therapies as a novel treatment for traumatic brain injury: a pathway towards neuroprotection. *Therapy*. 8(5): 507-09. 11.55.
9. Shah SK, Jimenez F, Letourneau PA, **Walker PA**, Moore-Olufemi SD, Stewart RH, Laine GA, Cox CS Jr. 2012. Strategies for modulating the inflammatory response after decompression from abdominal compartment syndrome. *Scandinavian Journal of Trauma, Resuscitation, and Emergency Medicine* 20(1): 25.
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11. Alibhai MH, Shah SK, **Walker PA**, Wilson EB. 2015. A review of the role of robotics in bariatric surgery. *Journal of Surgical Oncology*. 112(3): 279-83.
12. Holihan JL, Alawadi ZM, Harris JW, Harvin J, Shah SK, Goodenough CJ, Kao LS, Liang MK, Roth JS, **Walker PA**, Ko TC. 2016. In brief. *Current Problems in Surgery*. 53: 301-304.
13. Holihan JL, Alawadi ZM, Harris JW, Harvin J, Shah SK, Goodenough CJ, Kao LS, Liang MK, Roth JS, **Walker PA**, Ko TC. 2016. Ventral hernia: Patient selection, treatment, and management. *Current Problems in Surgery*. 53: 307-54.

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2. Shah SK, Kreiner LA, **Walker PA**, Klein KL, Bajwa KS, Robinson EK, Millas SG, Souchon EA, Wray CJ. 2012. Cytomegalovirus enteritis manifesting as recurrent bowel obstruction and jejunal perforation in a patient with AIDS: rare report of survival and review of the literature. *Surgical Infections*. 13(2): 121-4.

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4. **Walker PA**, Shah SK, Letourneau PA, Allison ND, Cox CS Jr. 2013. Treatment of plastic bronchitis using serial flexible bronchoscopy and aerosolized heparin therapy. *European Journal of Pediatric Surgery*. 23(2): 157-60.
5. Martinez EJ, Shah SK, **Walker PA**, Fischer UM, Lesslie DP. 2014. More than just skin deep: An unusual cause of bowel perforation. *American Surgeon*. 80(2): 42-4.
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8. Stephens NA, Shah SK, **Walker PA**, Jayanty V, Rajiman I, Khalil KK. Rare report of recurrent spontaneous esophageal dissection. 2014. *Journal of the Society of Laparoendoscopic Surgeons*. 18(2): 342-5.
9. Yabar CS, Fischer UM, Tannous AE, Liao GP, Kreiner LA, Shah SK, **Walker PA**, Ko TC, Millas SG, Souchon EA, Kao LS. 2014. Survival with near total small intestinal loss associated with mesenteric vein thrombosis: a report of Prothrombin G20210A mutation. *American Surgeon*. 80(5): 147-49.
10. Shah SK, **Walker PA**, Stephens NA, Harvin JA, Hetz RA, Fischer UM, Irani AD. 2014. Malignant eccrine spiradenoma metastatic to the lungs and pleura: report of a rare occurrence. *Diagnostic Imaging/UBM Medica*.
11. Palmer PE, Desai NR, **Walker PA**, Fischer UM, Shah SK. 2014. An uncommon cause of abdominal pain. *Diagnostic Imaging/UBM Medica*.
12. Jacquez RA, Fischer UM, Yaakovian MD, **Walker PA**, Shah SK. 2014. Necrotizing fasciitis of the abdominal wall in a patient with diverticulitis. *Panamerican Journal of Trauma, Critical Care, and Emergency Surgery*. 3(1): 37-8.
13. Collom ML, Bajwa SK, Mehta SS, **Walker PA**, Shah SK. 2014. Endometriosis of the appendix masquerading as appendicitis in a 34-week pregnant woman. Case report and review of the literature. *Austin Journal of Surgery*. 1(8): 1040.
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*indicating equal contribution and designation as co first authors.
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16. Gochnour DC, Snyder BE, Wilson EB, **Walker PA**, Shah SK. 2015. Endoscopic removal of eroded adjustable gastric band in a pregnant patient. *Journal of Digestive Endoscopy*. 6(3): 126-29. DOI 10.4103/0976-5042.165720
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BOOK CHAPTERS/MONOGRAPHS:

1. Shah SK, **Walker PA**, Andrassy RJ. Chapter 72: Rhabdomyosarcoma. In: Holcomb GW, Murphy JP (eds) *Pediatric Surgery*, 5th edition, Elsevier, Philadelphia. 2010.
2. **Walker PA**. Chapter 3: Stem cell delivery methods and routes. In: Cox CS Jr (ed) *Progenitor Cell Therapy for Neurological Injury*, 1st edition, Humana Press Inc, New York. 2011.
3. Shah SK, Jimenez F, **Walker PA**. Chapter 4: Neural stem cells – Endogenous repair of neurological injury. In: Cox CS Jr (ed) *Progenitor Cell Therapy for Neurological Injury*, 1st edition, Humana Press Inc, New York. 2011.
4. **Walker PA**, Allison ND. Chapter 5: Traumatic brain injury. Pathophysiology / models. In: Cox CS Jr (ed) *Progenitor Cell Therapy for Neurological Injury*, 1st edition, Humana Press Inc, New York. 2011.
5. **Walker PA**, Shah SK, Baumgartner JE. Chapter 9: Current status of clinical trials using progenitor cells for neurological injury. In: Cox CS Jr (ed) *Progenitor Cell Therapy for Neurological Injury*, 1st edition, Humana Press Inc, New York. 2011.
6. Shah SK, **Walker PA**, Snyder BE, Wilson EB. Chapter 6: Essentials and future directions of bariatric surgery. In: Kroh M, Chalikonda S (eds) *Essentials of Robotic Surgery*, Springer Science + Business Media, New York. 2015.
7. Perez C, **Walker PA**, Shah SK. Chapter 36: Complications of morbid obesity surgery. In: Moore LJ, Todd SR (eds) *Common Problems in Acute Care Surgery*, 2nd edition, Springer Science + Business Media, New York, 2017.
8. Shah SK, **Walker PA**. Chapter 21: Gastric outlet obstruction. In: Moore LJ, Todd SR (eds) *Common Problems in Acute Care Surgery*, 2nd edition, Springer Science + Business Media, New York, 2017.
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11. Perez C, Thosani NC, **Walker PA**, Shah SK. Chapter 31: Bleeding duodenal ulcers. In: Dimick J, Upchurch G, Sonnenday C, Kao L, eds. *Clinical Scenarios in Surgery: Decision Making and Operative Technique*, 2nd edition, Lippincott Williams & Wilkins, Philadelphia, 2018.
12. **Walker PA**, Shah SK. Robotic Parastomal Hernias. In: Tsuda S, Kudsı Y, eds. *Robotic-Assisted Minimally Invasive Surgery: A Comprehensive Textbook*. Springer International Publishing, New York, 2019.
13. Shah SK, Wilson EB, **Walker PA**. Challenging Hernias: Robotic Suprapubic Hernias. In: Tsuda S, Kudsı Y, eds. *Robotic-Assisted Minimally Invasive Surgery: Springer International Publishing*, New York, 2019.

POSTER PRESENTATIONS:

LOCAL/REGIONAL:

1. **Walker PA**, Harting MT, Pati S, Jimenez F, Dash PK, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Implications for intracranial inflammation depending upon timing, delivery, and target cell type. University of Texas Neuroscience Research Symposium, Houston, TX. December 6, 2008.
2. **Walker PA**, Harting MT, Pati S, Jimenez F, Dash PK, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Implications for intracranial inflammation depending upon timing, delivery, and target cell type. Mission Connect Symposium, Houston, TX. December 8, 2008.
3. Mok H, Huffsmith BA, **Walker PA**, Gill BS, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury (TBI). The University of Texas MD Anderson Cancer Center Step Up 2009 Research Symposium, Houston, TX. July 31, 2009.
4. Huffsmith BA, **Walker PA**, Mok H, Cox CS Jr. Autologous mononuclear progenitor cell injection for traumatic brain injury: the effect of injury cavity volume on potential neuroprotection. Research Forum, University of Texas Medical School at Houston, Houston, TX. November 5, 2009.
5. Holton NF, Felinski MM, Mehta SS, Bajwa KS, Snyder BE, Wilson TD, **Walker PA**, Chandwani KD, Klein CL, Rivera AR, Wilson EB, Shah SK. Safety of robotic assisted laparoscopic recurrent paraesophageal hernia repair: Insights from a large single institution experience. Research Forum, McGovern Medical School, UT Health, Houston, TX. November 9, 2017.
6. Nguyen T, Snyder BE, Bajwa KS, Mehta SS, Wilson TD, **Walker PA**, Felinski MM, Wilson EB, Shah SK. Outcomes of robotic revisional as compared to primary roux-en-y gastric bypass. Research Forum, McGovern Medical School, UT Health, Houston, TX. October 30, 2018.

NATIONAL:

1. **Walker PA**, Jimenez F, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Effect of serum osmolality on progenitor cell viability and pro-inflammatory cytokine production. Shock Society Research Symposium, San Antonio, TX. June 6-9, 2009.

2. **Walker PA**, Shah SK, Jimenez F, Pati S, Dash PK, Cox CS Jr. Autologous bone marrow mononuclear cell injection offers neuroprotection after traumatic brain injury (TBI) in a rodent model. The 8th Annual Meeting, International Society of Stem Cell Research, San Francisco, CA. June 16 – 19, 2010.
3. Pati S, Gerber MH, Jimenez F, **Walker PA**, Cox CS Jr, Dash PK, Holcomb J. Systemic effects of human mesenchymal stem cells on vascular permeability and angiogenesis are mediated by cell to cell contact through modulation of the VE-cadherin-beta-catenin signaling pathway. The 8th Annual Meeting, International Society of Stem Cell Research, San Francisco, CA. June 16 – 19, 2010.
4. Shah SK, Moore-Olufemi SD, Uray KS, Jimenez F, **Walker PA**, Xue H, Stewart RH, Laine, GA, Cox CS Jr. A novel murine model for the study of edema-induced intestinal contractile dysfunction. 2010 Joint International Meeting in Neurogastroenterology and Motility, Boston, MA. August 27-28, 2010.
5. Moore-Olufemi SD, Shah SK, Xue H, Jimenez F, **Walker P**, Cox CS Jr. A novel postnatal animal model to study gastroschisis-related gut dysfunction. 2010 Joint International Meeting in Neurogastroenterology and Motility, Boston, MA. August 27-28, 2010.
6. Shah S, Jimenez F, **Walker P**, Xue H, Uray K, Norbury K, Stewart R, Laine G, Cox C Jr. Evaluating the effects of immediate application of negative pressure therapy after decompression from abdominal compartment syndrome: a pre-clinical study. 40th Critical Care Congress, Society of Critical Care Medicine, San Diego, CA. January 15-19, 2011.
7. Shah S, Jimenez F, **Walker P**, Xue H, Uray K, Norbury K, Stewart R, Laine G, Cox C Jr. Effect of early negative pressure therapy (NPT) on pro-inflammatory characteristics of peritoneal fluid (PF) and plasma in abdominal compartment syndrome (ACS). 40th Critical Care Congress, Society of Critical Care Medicine, San Diego, CA. January 15-19, 2011.
8. Norbury KC, Shah SK, Jimenez F, **Walker PA**, Uray KS, Cox CS Jr. Using flow cytometry to measure signaling by peripheral blood leukocytes through CD11b/CD18 receptors during sepsis in a porcine model. 31st Annual Meeting of the Surgical Infection Society, Palm Beach, FL. May 11-14, 2011.
9. Bedi S, **Walker P**, Shah S, Jimenez F, Smith P, Hamilton J, Mays R, Pati S, Dash P, Cox C. Multipotent adult progenitor cell therapy for traumatic brain injury: modulation of microglia. National Neurotrauma Symposium 2011, Ft Lauderdale, FL. July 11, 2011.
10. **Walker PA**, Shah SK, Agarwal AK, Wilson EB, Bajwa KS, Mehta SS. Unusual complications of retained adjustable gastric band (AGB) tubing. International Federation for the Surgery of Obesity and Metabolic Disorders 2014 World Congress, Montreal, Canada, August 26-30, 2014.
11. **Walker PA**, Shah SK, Agarwal AK, Wilson EB, Snyder BE. Endoscopic removal of an eroded adjustable gastric band (AGB) in a pregnant patient: report of technique. International Federation for the Surgery of Obesity and Metabolic Disorders 2014 World Congress, Montreal, Canada, August 26-30, 2014.

12. Bajwa KS, **Walker PA**, Shah SK, Wilson EB, Snyder BE, Wilson TD, Mehta SS. Utility of PINPOINT fluorescence cholangiography in an era of high definition laparoscopy and robotic surgery. iSPIES Summit for Perfusion Imaging and Excellence in Surgery, Raleigh, North Carolina, November 21-23, 2014.
13. Kannappan A, **Walker PA**, Primomo JA, Kar B, Loyolka P, Gregoric I, Nathan S, Husain R, Akkanti B, Kajese T, Mehta S, Bajwa KS, Shah SK. Veno-venous extra corporeal membrane oxygenation as rescue therapy for severe aspiration pneumonitis after bariatric surgery. SAGES 2017, Houston, TX, March 22-25, 2017.
14. **Walker P**, Hall J, Bajwa K, Mehta S, Wilson T, Snyder B, Rivera A, Klein C, Shah S, Wilson E. Trocar site closure with a novel anchor based (Neoclose®) system versus standard suture closer: Preliminary results from a prospective randomized controlled trial. 16th World Congress of Endoscopy Surgery, April 11-14, 2018, Seattle, WA

ORAL PRESENTATIONS:

LOCAL/REGIONAL:

1. **Walker PA**. Routine versus selective intraoperative cholangiogram during laparoscopic cholecystectomy: a resident debate. Grand Rounds, Department of Surgery, University of Texas Medical School at Houston, Houston, TX. July 2007.
2. **Walker PA**, Harting MT, Pati S, Jimenez F, Dash PK, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Implications for intracranial inflammation depending upon timing, delivery, and target cell type. Joint Regenerative Center Meeting, Departments of Pediatric Surgery, Neurosurgery, and Internal Medicine-Cardiology, University of Texas Medical School at Houston, Houston, TX. November 2, 2008.
3. **Walker PA**, Jimenez F, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury: Effect of serum osmolarity on progenitor cell viability and pro-inflammatory cytokine production. South Texas Chapter, American College of Surgeons Research Symposium, Houston, TX. February 21, 2009.
4. **Walker PA**. The potential role of mesenchymal stromal cells (MSCs) for the treatment of traumatic brain injury. Joint Regenerative Center Meeting, Departments of Pediatric Surgery, Neurosurgery, and Internal Medicine-Cardiology, University of Texas Medical School at Houston, Houston, TX. November 3, 2009.
5. **Walker PA**, Jimenez F, Shah SK, Huffsmith BS, Dash PK, Cox CS Jr. Autologous mononuclear progenitor cell injection for traumatic brain injury (TBI): the effect of injury cavity volume on potential neuroprotection. South Texas Chapter, American College of Surgeons Research Symposium, Austin, TX. February 26, 2010.
6. **Walker PA**, Harting MT, Shah SK, Jimenez F, Pati S, Dash PK, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury offers neuroprotection via an NFkB mediated pathway. University of Texas Department of Surgery Resident Research Competition, Houston, TX. May 27, 2010.

7. **Walker PA.** Progenitor cell therapy for traumatic brain injury: The evolving mechanism of neuroprotection. Grand Rounds, Department of Surgery, University of Texas Medical School Houston, TX. June 10, 2010.
8. **Walker PA,** Jimenez F, Shah SK, Xue H, Hamilton JA, Mays RW, Deans R, Pati S, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Modulation of the resident neuronal macrophage population. South Texas Chapter, American College of Surgeons Research Symposium, Houston, TX. February 26, 2011.
9. **Walker PA.** Bleeding blue: Review of inferior vena cava injury after penetrating trauma. Combined Trauma and Cardiovascular Surgery Education Grand Rounds, University of Texas Medical School at Houston, Houston, TX. July 2011.
10. **Walker PA.** The evolution of inguinal hernia repair. Grand Rounds, Department of Surgery, University of Texas Medical School at Houston, Houston, TX. February 14, 2013.
11. **Walker PA.** Progenitor cell therapy for traumatic brain injury. The 1st Annual Stanley J. Dudrick Lecture Series, Department of Surgery, University of Texas Medical School at Houston, Houston, TX. April 11, 2013.
12. **Walker PA.** The evolution of the surgical treatment of GERD. Grand Rounds, Department of Surgery, University of Texas Medical School at Houston, Houston, TX. October 30, 2014.
13. **Walker PA.** Evolving endoluminal weight loss techniques. Texas Association for Bariatric Surgery Annual Meeting, Houston, TX. January 24, 2015.
14. **Walker PA.** Complex Hernia Repairs. Prosthetic Mesh and Suture Techniques. The First Annual Complex Hernia Course. Annual Meeting of the South Texas American College of Surgeons. Houston, TX. February 26, 2015.

NATIONAL/INTERNATIONAL:

1. **Walker PA,** Harting MT, Jimenez F, Pati S, Dash PK, Cox CS Jr. Mesenchymal stem cell therapy for traumatic brain injury offers neuroprotection via an NFkB mediated pathway. The 95th Annual Clinical Congress, American College of Surgeons, Chicago, IL. October 13, 2009.
2. **Walker PA,** Jimenez F, Shah SK, Huffsmith BS, Dash PK, Cox CS Jr. Autologous mononuclear progenitor cell injection for traumatic brain injury (TBI): The effect of injury cavity volume on potential neuroprotection. The 5th Annual Academic Surgical Congress, San Antonio, TX. February 5, 2010.
3. **Walker PA,** Jimenez F, Aroom KR, Gill BS, Savitz SI, Cox CS Jr. Effect of needle diameter and flow rate on mesenchymal stromal cell (MSC) cell characterization and viability. The 5th Annual Academic Surgical Congress, San Antonio, TX. February 5, 2010.
4. **Walker PA,** Wang YX, Shah SK, Jimenez F, Cox CS Jr, Hayes-Jordan A. Mesenchymal stem cell treatment reduces tumor growth and pulmonary metastasis in Ewing's sarcoma. The 5th Annual Academic Surgical Congress, San Antonio, TX. February 5, 2010.

5. **Walker PA**, Wang YX, Cox CS Jr, Hayes-Jordan A. Mesenchymal stem cells (MSCs) dependent regression of pulmonary metastasis is mediated by inhibition of platelet derived growth factor receptor-beta (PDGFR- β). The American Pediatric Surgery Association Annual Meeting, Orlando, FL. May 18, 2010.
6. **Walker PA**, Jimenez F, Shah SK, Gerber MH, Mays RW, Deans R, Pati S, Dash PK, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Preserving the blood brain barrier via an interaction with splenocytes. The 96th Annual Clinical Congress, American College of Surgeons, Washington, DC. October 6. 2010.
7. **Walker PA**, Jimenez F, Shah SK, Xue H, Hamilton JA, Mays RW, Deans R, Pati S, Cox CS Jr. Intravenous multipotent adult progenitor cell therapy for traumatic brain injury: Modulation of the resident neuronal macrophage population. The 6th Annual Academic Surgical Congress, Huntington Beach, CA. February 1, 2011.
8. **Walker PA**. Trocar site hernias: Prevention and Repair. Surgical Disruptive Technology Summit, Houston, TX. March 12, 2016.
9. **Walker PA**. Robotic incisional hernia repair: The new gold standard? Surgical Disruptive Technology Summit, Houston, TX. March 19, 2017.