

Mark Lewis Wulkan, M.D.

CURRICULUM VITAE

Revised: June, 2007

1. **Name: Mark Lewis Wulkan, M.D.**
2. **Office Address:**
 - Emory Children's Center
 - Division of Pediatric Surgery
 - 2015 Uppergate Dr., NE
 - Atlanta, GA 30322
 - Telephone: (404) 727-3779
 - Fax: (404) 727-2120
3. **Citizenship:** USA
4. **Current Titles and Affiliations:**
 - a. Academic appointments:
 1. **Primary Appointments:**
 - Associate Professor of Surgery
 - Emory University School of Medicine
 - Department of Surgery
 - Emory Children's Center
 - 10/04 - Present
 2. **Secondary Appointments:**
 - Associate Professor of Pediatrics
 - Emory University School of Medicine
 - Department of Pediatrics
 - Emory Children's Center
 - 10/04-Present
 3. **Clinical Appointments:**
 - Surgical Director, Pediatric Intensive Care Unit
 - Children's Healthcare of Atlanta at Egleston
 - 2001-Present

 - Director, Minimally Invasive Surgery Center
 - Children's Healthcare of Atlanta
 - 2003-Present

CURRICULUM VITAE

MARK LEWIS WULKAN

Page 2

c. Other Administrative Appointments:

Director of Medical Informatics
Children's Healthcare of Atlanta
2004-Present

Program Director
Pediatric Surgery Residency
Emory University School of Medicine
2006-Present

5. Previous Academic and Professional Appointments:

Assistant Professor of Surgery
Emory University School of Medicine
Department of Surgery
Emory Children's Center
7/98-10/04

Assistant Professor of Pediatrics
Emory University School of Medicine
Department of Pediatrics
Emory Children's Center
7/98-10/04

6. **Licensure/Boards:**

Georgia License # 045676 (6/4/98)
National Board of Medical Examiners – Certificate 373114 (7/1/90)

7. **Specialty Boards:**

Board Certified General Surgery - Certificate #40841 (12/12/95)
- Recertified 12/14/05
Added Qualifications in Critical Care – Certificate #1573 (10/18/96)
Special Qualifications in Pediatric Surgery – Certificate #819 (3/20/00)

8. **Education:**

Emory College, Atlanta, GA
Degree: B.S. Biology/B.A. Chemistry - May 13, 1985 – Emory

1981 - 1985

CURRICULUM VITAE

MARK LEWIS WULKAN

Page 3

Honors: *Summa Cum Laude* honors thesis (listed below) 1985 - Emory
Alpha Epsilon Delta premedical honor society – 1982-85 - Emory
Biology Honor Society – Emory – 1982-85

Honors Thesis: "Computer Aided Construction of Nucleic Acid
Restriction Maps Using Defined Vectors" -
Emory

Faculty Advisor: Timothy Lott, Ph.D. - Emory

Emory University School of Medicine 1985 - 1989
Atlanta, GA

Degree: M.D. - May 15, 1989

9. Postgraduate Training:

University of Alabama at Birmingham/The Children's Hospital of Alabama 1997 - 1998
Birmingham, AL

Chief Resident in Pediatric Surgery

University of Alabama at Birmingham/The Children's Hospital of Alabama 1996 - 1997
Birmingham, AL

Assistant Chief Resident in Pediatric Surgery

University of Alabama at Birmingham/The Children's Hospital of Alabama 1995 - 1996
Birmingham, AL

Pediatric Surgery Research Fellow

University of Pittsburgh/Pittsburgh Children's Hospital 1994 - 1995
Pittsburgh, PA

Pediatric Surgical Critical Care Fellow

University of Miami/Jackson Memorial Hospital Medical Center 1989 - 1994
Miami, FL

General Surgery Chief Resident 1993-1994
General Surgery Resident 1989-1993

10. Committee Memberships:

a. National/International:

American Pediatric Surgical Association
Pediatric Obesity Committee
2006 – Present
 Chairman 2006 – Present
Informatics Committee
2005 – Present
 Vice-chair 2006 – Present
Incidence Monitoring Committee
2007 – Present
 Vice-chair 2007 - Present
Portal Task Force
2006 - Present

International Pediatric Endosurgery Group (IPEG)
Program Committee
1998-Present
 Co-Chair 2004-5
Education Committee
2005-Present
 Co-Chair, 2006 - present
Technology Committee
2005-Present
 Co-Chair, 2006 - present
Outcomes Committee
1998-2002

Society of American Gastrointestinal Endoscopic Surgery (SAGES)
Pediatric Committee
2003-Present
Resident Education Committee
2004-Present

American College of Surgeons
Committee on Video-based Education
2004-Present

American Academy of Pediatrics
Alternate Surgical Section Liaison
2004-Present

Epic Pediatric Collaborative
2006-Present

b. Regional/State:

Quality Improvement Committee
Premier Healthcare of GA
1999-2000

c. Institutional/Hospital:

Egleston Children's Hospital
Resource Utilization Management Committee
1999 – 2001

Emory University, Department of Surgery
Endosurgery Research Committee
1998 – 2002

Children's Healthcare of Atlanta at Egleston
Peer Review Committee
2001 - 2003

Trauma Committee
1998 – 2006

Trauma Peer Review Committee
2004 - Present

Operative Services Committee
1998 – Present

EPIC Executive Steering Committee (succeeded by Guiding Team)
2003 – 2006

CURRICULUM VITAE

MARK LEWIS WULKAN

Page 6

EPIC Guiding Team
2006 – Present

EPIC Leadership Committee
2003 – Present

Co-chairman – EPIC Physician Advisory Committee
2003 – Present

Co-chairman – EPIC Physician Oversight Committee
2003 - Present

11. Editorships/Editorial Boards:

Editorial Board – Journal of Pediatric Endosurgery & Innovative Techniques
2003-2005

Editorial Board – Journal of Laparoendoscopic and Advanced Surgical
Techniques
2005-present

12. Manuscript Reviewer:

Journal of Pediatric Gastroenterology and Nutrition
2005-present

Journal of Pediatric Endosurgery & Innovative Techniques
2002-2005

Journal of Laparoendoscopic and Advanced Surgical Techniques
2005-present

Journal of Pediatric Surgery
2001-present

International Journal of Obesity
2006-present

Acta Paediatrica
2006-present

13. Second Place Resident Prize: Wulkan ML, McKenney MG. "The Effect of Zero Gravity on the Fluid Status of Shuttle Astronauts" Presented at *The 5th Annual Surgical Research Forum, South Florida Chapter of the American College of Surgeons* May 1994; Miami, FL.

Award for Most Innovative Presentation (First electronic presentation at the section meeting). Wulkan ML, Wiener E, VanBalen N, Vescio P. "Laparoscopy through the Open Ipsilateral Sac to Evaluate Presence Contralateral Hernia." Presented at *American Academy of Pediatrics 1995 Annual Meeting* October 1995; San Francisco, CA.

Crystal Quill Award – Best Corporate Website (Children’s Hospital of Alabama) – 1997

Summa Cum Laude Honors Thesis, “Computer-aided Construction of Nucleic Acid Restriction Maps using Defined Vectors.” – Emory University College - 1985

14. **Society Memberships:**

American College of Surgeons
American Pediatric Surgical Association
American Academy of Pediatrics
Association of Academic Surgeons
Atlanta Surgical Association
Georgia Surgical Society
International Pediatric Endosurgery Group
Jackson Laparoscopic Society (Board of Directors 7/1/93 - 6/30/94)
Jackson Surgical Society
Society of American Gastrointestinal and Endoscopic Surgery
Society of Critical Care Medicine
Southeastern Surgical Congress
Southern Medical Association

15. Organization of National or International Conferences:

Co-Chair Program Committee, IPEG’s 14th Annual Congress for Endosurgery in Children, June 2005, Venice, Italy.

Co-Course Director: Hands on Suturing Course, IPEG/EAES, June 2005, Venice, Italy.

Session Organizer: Combined IPEG/SAGES Video Session, April 2006, Dallas, TX.

16. Research Focus:

Pediatric Minimally Invasive Surgical Techniques

Effects of pneumoperitoneum on infants

Effects of pneumoperitoneum on infants with complex congenital heart disease

Gastroesophageal reflux disease

Endosurgical Education

Medical Informatics

17. Grant Support:

a. Active Support

1. Federally funded: None

2. Private foundation funded: None

3. Contracts: None

b. Previous Support

USSC Endosurgery Research Grant

“A comparative study to determine the durability of small intestinal submucosa graft v polytetrafluoroethylene graft in diaphragmatic hernia repair in young Yucatan miniature pigs.”

\$58,950

2001-3

USSC Endosurgery Research Grant

“The effect of insufflation pressure on pulmonary function in infants receiving laparoscopic surgical procedures under general anesthesia”

\$10,740

2000-2

18. Clinical Service Contributions:

Established Adolescent Bariatric Surgery Program at Emory University School of Medicine

Established Minimally Invasive Surgical Center, Children’s Healthcare of Atlanta

Expanded pediatric endosurgery services within the Division of Pediatric Surgery at Children’s Healthcare of Atlanta at Egleston.

Introduced minimally invasive surgical techniques to other services, such as cardiothoracic surgery, orthopedic surgery, and urology.

19. Formal Teaching:

- a. Medical Student Teaching: Emory University School of Medicine
1998-Present – Third year medical student oral examiner
1998-Present – Third year medical student surgical lecturer
- b. Residency Programs: Dept. of Surgery, Emory University
1998-Present – Daily rounds and teaching sessions with surgical residents
1998-Present - Pediatric Surgery Basic Science lecturer
- c. Other categories: None

20. Supervisory Teaching:

- a. Ph.D. students – none
- b. Post-doctoral fellows directly supervised:
 - 2006-Present Randolph Cribbs, M.D. Laparoscopic Research Fellow
 - 2006-Present Abdalla Zarroug, M.D. Pediatric Surgery Fellow
 - 2005-Present Cynthia Downard, M.D., Pediatric Surgery Fellow
 - 2004-2006 Megan Durham, M.D., Pediatric Surgery Fellow
 - 2004-2005 Curt Koontz, M.D., Laparoscopic Research Fellow
 - 2004-2005 Dan Saad, M.D. Laparoscopic Research Fellow
 - 2002-2004 Amina Bhatia, M.D. Pediatric Surgery Fellow
 - 2000-2002 Andreas Meier, M.D., Pediatric Surgery Fellow
 - 1998-2000 Hanmin Lee, M.D., Pediatric Surgery Fellow
- c. Residency Program:
 - 2006-Present Program Director, Pediatric Surgery Residency
 - 2005-2006 Associate Program Director, Pediatric Surgery Residency
 - 1999-Present Faculty advisor to General Surgery residents
 - 1999-Present Research advisor to General Surgery residents
- d. Other:
 - 1999-Present – Research advisor to medical students
 - 1999-Present – Mentor for third year medical students

Courses Taught:

- i. Advanced Minimal Access Pediatric Surgery Workshop, May 1998; Charleston, SC.
- ii. Laparoscopic Foregut Surgery, February 1999; Atlanta, GA.
- iii. Advanced Minimal Access Pediatric Surgery Workshop II, May 1999; Los Angeles, CA.
- iv. Chair/Moderator for IPEG Scientific Session Panel: The Internet and Telemedicine in Pediatric Surgery, March 2000; Atlanta, GA.
- v. Lab Instructor for IPEG Hands-On Course: Minimal Access Foregut Surgery Workshop, March 2000; Atlanta, GA.
- vi. Panelist for Pediatric Surgery Motion Picture Session, October 2000
- vii. Advanced Minimal Access Pediatric Surgery Residents Workshop, May 2001; Miami, FL.
- viii. IPEG Hands-On Course: Minimal Access Foregut Surgery Workshop, 2002, Genoa, Italy.
- ix. IPEG Fellows Course Lab & Pediatric Fellows Animate Hands-On Course, March, 2003, Los Angeles.
- x. Advanced Miniature Access Surgery for Pediatric Surgeons-in-Training at University of Buffalo, September 2003, Buffalo, NY.
- xi. Advanced Pediatric Laparoscopy and Bariatric Surgery for Residents in Pediatric Surgery: Laparoscopic Pancreatic Surgery, May, 2004, Memphis, TN
- xii. Surgeons in the Digital Age: Video Editing Course: IPEG Meeting, May, 2004, Maui, Hawaii
- xiii. Advanced Pediatric MIS for Fellows in Pediatric Surgery: SAGES 2005 Annual Meeting, April 2005, .
- xiv. Hands on Suturing Course: IPEG/EAES, June 2005, Venice, Italy.
- xv. Advanced Pediatric MIS for Fellows in Pediatric Surgery: IPEG/SAGES 2006 Annual Meeting, April 2006.

21. Lectureships/Seminar Invitations, and Visiting Professorships:

1. **Wulkan ML.** "Physicians on the Internet: Why you should get connected." Presented at *Grand Rounds* at The Boca Raton Community Hospital August 1996; Boca Raton, FL.
2. **Wulkan ML.** "Intracorporeal Knot Tying." Presented at *Advanced Minimal Access Pediatric Surgery Workshop* May 1998; Charleston, SC.
3. **Wulkan ML.** "Cannulation for ECLS." Presented at *Advanced Management: The Art & Science of Critical Care* October 1998; Atlanta, GA.

4. **Wulkan ML.** “What’s New in Pediatric Surgery.” Presented at *Frontiers in Pediatrics* March 1999; Atlanta, GA.
5. **Wulkan ML.** “Contralateral Groin Exploration.” Presented at *Advanced Minimal Access Pediatric Surgery Workshop II* May 1999; Los Angeles, CA.
6. **Wulkan ML.** “Colon Pull-through for Hirschsprung’s Disease.” Presented at *Advanced Minimal Access Pediatric Surgery Workshop II* May 1999; Los Angeles, CA.
7. **Wulkan ML.** “Minding your Bits & Bytes: How to Avoid Road Rage on the Information Super Highway.” Presented at *Pediatric Grand Rounds* September 1999; Atlanta, GA.
8. **Wulkan ML.** “What’s New in Pediatric Surgery?” Presented at *Festival Season Pediatric Conference* December 1999; Atlanta, GA.
9. **Wulkan ML.** “A Look to the Future.” Presented at the *IPEG 2000 Annual Meeting* March 2000; Atlanta, GA.
10. **Wulkan ML.** “Pediatric Laparoscopy: Small Patients, Small Scopes.” Presented at the *SAGES 2000 Annual Meeting* April 2000; Atlanta, GA.
11. **Wulkan ML.** “Neonatal Surgical Emergencies.” Presented at *Pediatric Grand Rounds* May 2000; Atlanta, GA.
12. **Wulkan ML.** “Laparoscopic Surgery in Newborns.” Presented at *Pediatric Residents Noon Conference* May 2000; Atlanta, GA.
13. **Wulkan ML.** “Telemedicine – Is it Ready for Prime Time?” Presented at *3rd Annual Palm Beach CA Symposium: Filling in the Gaps* March 2001; Boca Raton, FL.
14. **Wulkan ML.** “Pitfalls of Laparoscopic Fundoplication in Infants & Children.” *SAGES Spring Meeting* April 19-20, 2001; St. Louis, Missouri.
15. **Wulkan ML.** “Small Holes, Small Scopes, Small Patients”. *SAGES Spring Meeting* April 19-20, 2001; St. Louis, Missouri.
16. **Wulkan ML.** “Physicians on the Internet: Literature Searches.” Boca Raton Community Hospital, August, 2001, Boca Raton, Florida.

17. **Wulkan ML.** “Small Holes, Small Scopes, Small Patients”. Presented at the *41st Annual Meeting of the Georgia Surgical Society*, November 15, 2002, Sea Island, GA.
18. **Wulkan ML.** “Laparoscopic Fundoplication”. Video presentation. Presented at the *2003 International Pediatric Endosurgery Group (IPEG) Meeting*, March 11, 2003, Los Angeles, CA.
19. **Wulkan ML.** “Laps vs. Drains: How Do We Manage Perforations?”. Panel discussion presentation. Presented at *Neonatology 2003 Conference* (Emory University), March 28, 2003, Atlanta, GA.
20. **Wulkan ML.** “Surgical Management of Pediatric Obesity”. Presented at the *Children’s Healthcare of Atlanta Speakers’ Bureau Gwinnett CME Dinner*, June 19, 2003, Duluth, GA.
21. **Wulkan ML.** “Laparoscopic Oophorectomy” and “Laparoscopic Splenectomy.” Visiting Professor, Advanced Miniature Access Surgery for Pediatric Surgeons-in-Training at University of Buffalo, September 2003, Buffalo, NY.
22. **Wulkan ML.** “Surgical Management of Pediatric Obesity”. Panel Discussion presentation. *Pediatrics at the Park, Ga Chapter, AAP*, November 14, 2003, Atlanta, GA.
23. **Wulkan ML.** “Small Holes, Small Scopes, Small Patients”. Presented at *Surgical Grand Rounds*, Emory University School of Medicine – Dept. of Surgery, March 24, 2004, Atlanta, GA.
24. **Wulkan ML.** “Thoracoscopic Repair of Congenital Diaphragmatic Hernia”. Presented at the *International Pediatric Endosurgery Group (IPEG) Meeting*, May 7, 2004, Maui, Hawaii.
25. **Wulkan ML.** “Laparoscopic Colectomy and Ileal Pouch-Anal Anastomosis”. Presented at the *International Pediatric Endosurgery Group (IPEG) Meeting*, May 7, 2004, Maui, Hawaii.
26. **Wulkan ML.** “Complications of Laparoscopy”. Panel Discussion presentation. *International Pediatric Endosurgery Group (IPEG) Meeting*, May 7, 2004, Maui, Hawaii.
27. **Wulkan ML.** “Thoracoscopic Division of a Vascular Ring”. Video presentation. *International Pediatric Endosurgery Group (IPEG) Meeting*, May 8, 2004, Maui, Hawaii.

28. **Wulkan ML.** "A Minimally Invasive Approach to Congenital Hyperinsulinism". Video Presentation. *American College of Surgeons Meeting*, October 11, 2004, New Orleans, LA.
 29. **Wulkan ML.** "Non-Surgical Bleeding and Hemostasis". Presented at the *American College of Surgeons Meeting, Pediatric Surgery Post-Graduate Board Review Course*, October 13, 2004, New Orleans, LA.
 30. **Wulkan ML.** "Small Holes, Small Scopes, Small Patients." Visiting Professor, University of Tennessee at Chattanooga, November 24, 2004, Chattanooga, TN.
 31. **Wulkan ML.** "A Pancreatic Lesion." Presented at *Advanced Pediatric MIS for Fellows in Pediatric Surgery at SAGES 2005 Annual Meeting*, April 2005, Hollywood, FL.
 32. **Wulkan ML.** "What's New in Pediatric Minimally Invasive Surgery: Neonatal MIS." Children's Healthcare of Atlanta, November 2005, Atlanta, GA.
 33. **Wulkan ML.** "Weighing the Options: Adolescent Bariatric Surgery." Children's Healthcare of Atlanta, November 2005, Atlanta GA.
 34. **Wulkan ML.** "Weighing the Options: Adolescent Bariatric Surgery." Children's Healthcare of Atlanta, April 2006, Atlanta GA.
- 22. Invitations to National/International Conferences:**
1. **Wulkan ML,** Whitehead J. "Educational Activities Documentation." Presented at *American Society of Hospital Pharmacists Midyear Convention Computer Showcase* 1983; Atlanta, GA.
 2. **Wulkan ML,** Lott T. "Computer-aided Construction of Nucleic Acid Restriction Maps using Defined Vectors." Presented at *Computers in the Biosciences* 1984; Washington, D.C.
 3. **Wulkan ML,** Oiticica C, Buckner D. "Laparoscopy and Thoracoscopy in Children." Presented at *The 4th Annual Surgical Research Forum, South Florida Chapter of the American College of Surgeons*; April 1993; Miami, FL.
 4. McKenney MG, Windsor J, **Wulkan ML,** Bilsker M, Albeg J, Civetta JM. "Can Doppler Echocardiography be used to Accurately Estimate Cardiac Output and Left Ventricular Filling Pressure?" Presented at *Society of Critical Care Medicine 22nd Annual Educational and Scientific Symposium*. June 1993; New York, NY.

5. McKenney MG, Sleeman D, Windsor J, **Wulkan ML**, Bilsker M, Albeg J, Sosa JL, Civetta JM. "Doppler Echocardiography in the Intensive Care Unit." Presented at *The 6th World Congress on Intensive and Critical Care Medicine* June 1993; Madrid, Spain.
6. **Wulkan ML**, Oiticica C, Buckner D. "Minimally Invasive Surgery in Children." Presented at the *Jackson Surgical Society Monthly Forum* January 1994; Miami, FL.
7. **Wulkan ML**, McKenney MG. "The Effect of Zero Gravity on the Fluid Status of Shuttle Astronauts" Presented at *The 5th Annual Surgical Research Forum, South Florida Chapter of the American College of Surgeons* May 1994; Miami, FL. Second place prize winner.
8. **Wulkan ML**, McKenney MG. "Non-Invasive Measurements of the Fluid Status of Shuttle Astronauts" Presented at *The Annual Meeting of the PEEP Society* June 1994; Miami Beach, FL.
9. **Wulkan ML**, Wiener E, VanBalen N, Vescio P. "Laparoscopy through the Open Ipsilateral Sac to Evaluate Presence Contralateral Hernia." Presented at *American Academy of Pediatrics Annual Meeting* October 1995; San Francisco, CA. Award for Most Innovative Presentation (First electronic presentation at the section meeting).
10. Ford H, Reblock K, Teramana C, Watkins S, **Wulkan ML**, Abou-Jaoude W, Rowe M. "The Role of Nitric Oxide in the Pathogenesis of Necrotizing Enterocolitis." Presented at *American College of Surgeons Annual Meeting Surgical Forum* October 1995; New Orleans, LA.
11. Meehan J, Georgeson K, Winters D, **Wulkan ML**. "Laparoscopic Fundoplication Learning Curve in Infants and Children." Presented at *The 16th Annual Pediatric Surgical Resident's Conference* November 1995; Oklahoma City, OK.
12. **Wulkan ML**, Hardin W, Gill B, Smith S, Whalen T. "Pediatric Surgeons on the Internet: A Multi-institutional Experience." Presented at *The 27th Annual Meeting of the American Pediatric Surgical Association* May 1996; San Diego, CA.
13. **Wulkan ML**, Georgeson K. "Laparoscopic Contralateral Groin Exploration." Presented at *The 29th Annual Meeting of the American Pediatric Surgical Association* May 1998; Hilton Head, SC.
14. **Wulkan ML**. "Pediatric Surgical Abdominal Emergencies." Presented at *Family Practice Grand Rounds* March 1999; Georgia Baptist Hospital, Atlanta, GA.

15. Lee H, **Wulkan ML**, Owings EP, and Georgeson KE. "Laparoscopic-Assisted Percutaneous Gastrostomy Tube Placement in Children." Presented at the *Southeastern Surgical Congress Annual Meeting* February 2000; Orlando, FL.
16. Lee H, **Wulkan ML**. "Placement of Button-Gastrostomy Tubes using Laparoscopic Assistance." Presented at the *GA Chapter Meeting* of the American College of Surgeons March 2000; Sea Island, GA.
17. **Wulkan ML.**, Sanda Tan. "Minimally Invasive Surgical Techniques in Re-operative Surgery for Gastroesophageal Reflux Disease in Infants and Children." Presented at *Southeastern Surgical Congress Annual Meeting*, February 6, 2001; New Orleans, LA.
18. **Wulkan ML**, Fazlolla T, Bannister C. "The Impact of Pneumoperitoneum on the Respiratory Status of Infants less than One Year Old." Presented at the *American Pediatric Surgical Association Spring Meeting* May 2001, Naples, Florida.
19. Lin E, **Wulkan ML**. "Laparoscopic Subtotal Colectomy for Ulcerative Colitis." Video Presentation, *The 33rd Annual Meeting of the American Pediatric Surgical Association Spring Meeting*, May 2002, Phoenix, AZ.
20. Milas Z, **Wulkan ML**. "Laparoscopic Adrenalectomy for Neuroblastoma: A Report of 2 Cases." Poster Presentation, *International Pediatric Endosurgery Group Meeting*, May 2002, Genoa, Italy.
21. Vasudevan S, Thourani V, **Wulkan ML**. "Preliminary Comparison of Laparoscopic vs. Open Nissen Fundoplication in Patients with Congenital Heart Disease." Poster Presentation, *International Pediatric Endosurgery Group Meeting*, May 2002, Genoa, Italy.
22. Cabbabe, S, Gow KW, Heiss KF, **Wulkan ML**. "Laparoscopic Cystogastrostomy for Treatment of Pediatric Retrogastric Pseudocysts." Presented at the *Canadian Association of Pediatric Surgeons Annual Meeting*, Sept. 2003, Niagra-By-The-Lake, ON, Canada.
23. Bhatia A, Gow KW, Heiss KF, **Wulkan ML**. "Is the Use of Laparoscopy to Determine Presence of Contralateral Patent Processus Vaginalis Justified in Children over 2 Years of age?" Presented at the *Canadian Association of Pediatric Surgeons Annual Meeting*, Sept. 2003, Niagra-By-The-Lake, ON, Canada.
24. **Wulkan ML**. "Complications of Laparoscopy". *International Pediatric Endosurgery Group Meeting*, May 7, 2004, Maui, Hawaii.

25. Koontz CS, Bhatia A, **Wulkan ML**. “Video-Assisted Thoracoscopic Cardiac Surgery in Pediatric Patients.” Poster Presentation, *Southeast Surgical Congress Annual Meeting*, Feb. 2005, New Orleans, LA.
26. Koontz CS, Bhatia A, **Wulkan ML**. “Laparoscopic Repair of Duodenal Obstruction in Neonates.” Poster Presentation, *Southeast Surgical Congress Annual Meeting*, Feb. 2005, New Orleans, LA.
27. Harmon CM, Inge TH, Kane TD, **Wulkan ML**, Kokoska ER, Lobe TE, Barnhart DC, Loux TJ. “Improvement in Suturing and Tying Times in Pediatric Surgery Fellows Attending a Workshop for an Advanced Laparoscopic Procedure.” Poster Presentation, *SAGES 2005 Annual Meeting*, April 2005, Hollywood, FL.
28. **Wulkan ML**. “Thoracoscopic Esophageal Atresia Repair with Intracorporeal Knot Tying.” Video Presentation, *SAGES 2005 Annual Meeting*, April 2005, Hollywood, FL.
29. **Wulkan ML**. “Minimally Invasive Thoracic Ultrasound.” *International Pediatric Endosurgery Group Meeting*, June 2005, Venice Lido, Italy.
30. Kogan BE, Forbess JM, **Wulkan ML**, Kirshbom PM, Kanter K. “Thoracoscopic Surgery: Is it a Superior Technique for the Division of Vascular Rings in Children?”. Presented at the *Western Thoracic Surgical Association Annual Meeting*, June 2005, Vancouver, Columbia, Canada.
31. **Wulkan ML** et al. “Undifferentiated Embryonal Sarcoma (UES) of the Liver: Eight New Cases with Discussion of Chromosomal Abnormalities and Selected Cases Associated with Mesenchymal Hamartoma (MH)”. Presented at the *Paediatric Pathology Society & Society for Pediatric Pathology Joint Meeting*, August 31 – September 3, 2005, Tours, France.
32. Saad DF, Bhatia AB, Gow KW, Heiss KF, **Wulkan ML**. “Left Sided Gastroschisis in a Newborn.” Poster presentation at *Southeast Surgical Congress*, February 2006, Lake Buena Vista, FL.
33. Koontz CS, Bhatia AB, Gow KG, **Wulkan ML**. “Propeller Trauma and Blunt Injury Due to Water-Craft Accidents Involving Children” Poster presentation at *Southeast Surgical Congress*, February 2006, Lake Buena Vista, FL.
34. **Wulkan ML**. “Secondary Esophageal Atresia Repair.” Video Presentation at *International Pediatric Endosurgery Group Annual Meeting*, April 2006, Dallas, TX.

35. **Wulkan ML.** “Minimally Invasive Thoracic Ultrasound.” Video Presentation at *SAGES Annual Meeting*, April 2006, Dallas, TX.
36. **Wulkan ML.** “Minimally Invasive Thoracic Ultrasound.” Presented at *SAGES/IPEG Advanced MIS for Fellows Course*, April 2006, Dallas, TX.
37. **Wulkan ML.** “A Minimally Invasive Approach to Congenital Hyperinsulinism.” Presented at *SAGES/IPEG Advanced MIS for Fellows Course*, April 2006, Dallas, TX.

23. Other Activities

1. Panelist, Pediatric Surgery Video Session, American College of Surgeons Clinical Congress, October 2000, Chicago, IL.
2. Moderator, Scientific Session, IPEG Annual Meeting 2002, May 2002, Genoa, Italy.
3. Moderator, Scientific Session, IPEG Annual Meeting 2004, May 2004, Maui, HI.
4. Moderator, Scientific Session, IPEG Annual Meeting 2005, June 2005, Venice Lido, Italy.
5. Moderator, Oncology Seminar, IPEG Annual Meeting 2005, June 2005, Venice Lido, Italy.
6. Grand Rounds Professor, Southeastern Surgical Congress Annual Scientific Meeting, February 12-15, 2005, New Orleans, LA.
7. Grand Rounds Professor, at Southeastern Surgical Congress Annual Scientific Meeting, February 2006, Orlando, FL.
8. Chair, Combined Video Session IPEG/SAGES Annual Meeting, April 2006, Dallas, TX.
9. Chair, American College of Surgeons Pediatric Surgery Video Session, October 2006, San Francisco, CA.

24. Bibliography:

a. Publications

1. **Wulkan ML,** Lott T. Computer-aided Construction of Nucleic Acid Restriction Maps using Defined Vectors. *Computer Applications in the Biosciences* 1985; 4:235-239.

2. Viamonte M, **Wulkan ML**, Irani H. Splenic Trauma as a Complication of Colonoscopy. *Surgical Laparoscopy & Endoscopy* 1992;2:154-157.
3. **Wulkan ML**, Wiener E, VanBalen N, Vescio P. Laparoscopy through the Open Ipsilateral Sac to Evaluate Presence of Contralateral Hernia. *Journal of Pediatric Surgery* 1996; 31:1174-6.
4. **Wulkan ML**, Hardin W, Gill B, Smith S, Whalen T. Pediatric Surgeons on the Internet: A Multi-institutional Experience. *Journal of Pediatric Surgery* 1997; 32:612-4.
5. **Wulkan ML**, Georgeson K. Laparoscopic Contralateral Inguinal Hernia Exploration in Infants and Children. *Pediatr Endosurg Innov Techniq* 1998; 2(4); 199-203.
6. **Wulkan ML**, Vasudevan SW. Is end-tidal CO₂ an accurate measure of arterial CO₂ during laparoscopic procedures in children and neonates with cyanotic congenital heart disease? *J Pediatr Surg* 36:1234-1236, 2001.
7. **Wulkan ML.**, Sanda Tan. "Minimally Invasive Surgical Techniques in Re-operative Surgery for Gastroesophageal Reflux Disease in Infants and Children. *Am Surg* 68:989-92, 2002.
8. **Wulkan ML**, Lee H, Jones A, Vasudevan S. Evaluation of Laparoscopic-Assisted Percutaneous Gastrostomy Tube Placement In Children. *Ped Endosurg & Innov Tech* 6:29-32, 2002.
9. Fortenberry JD, Meier AH, Pettignano R, Heard M, Chambliss CR, and **Wulkan ML**. Extracorporeal Life Support for Posttraumatic Acute Respiratory Distress Syndrome at a Children's Medical Center. *J Pediatr Surg* 38:1221-1226, 2003.
10. Bannister CF, Brosius KK, Fazlollah T, and **Wulkan ML**. The Effect of Insufflation Pressure on Pulmonary Mechanics in Infants Receiving Laparoscopic Surgical Procedures. *Paediatr Anesthesiol.* 13(9):785-9, 2003.
11. Bhatia A, Gow KW, Heiss KF, **Wulkan ML**. Is the Use of Laparoscopy to Determine Presence of Contralateral Patent Processus Vaginalis Justified in Children > 2 Years Of Age? *J Pediatr Surg* 39(5):778-781, 2004.
12. Koontz C, Gow KW, **Wulkan ML**. Video-assisted Thoracoscopic Surgical Excision of Cystic Lung Disease in Children. *J Pediatr Surg* 40(5):835-837, 2005.

13. Koontz C, Bhatia A, Forbess J, **Wulkan ML**. Video-assisted Thoracoscopic Division of Vascular Rings in Pediatric Patients. *Amer Surgeon* 71(4):289-91, 2005
14. Saad DF, Crawford GI, **Wulkan ML**. Cerebral Venous Thrombosis after Closed Head Injury in a Child. *J Trauma* 58(5):1066-7, 2005.
15. Saad DF, Gow KW, Shehata B, **Wulkan ML**. Pyloric Duplication in a Term Newborn. *J Pediatr Surg* 40(7):1209-10, 2005.
16. Diaz DM, Gibbons TE, Heiss K, **Wulkan ML**, Ricketts RR, Gold BD. Antireflux Surgery Outcomes in Pediatric Gastroesophageal Reflux Disease. *Am J Gastroenterol* 100(8):1844-52, 2005.
17. Saad DF, Gow KW, Cabbabe S, Heiss KF, **Wulkan ML**. Laparoscopic cystogastrostomy for the treatment of pancreatic pseudocysts in children. *J Pediatr Surg*. 2005 Nov;40(11):e13-7.
18. Saad DF, Gow KW, Redd D, Rausbaum G, **Wulkan ML**. Renal artery pseudoaneurysm secondary to blunt trauma treated with microcoil embolization. *J Pediatr Surg*. 2005 Nov;40(11):e65-7.
19. Saad DF, Gow KW, Milas Z, **Wulkan ML**. Laparoscopic adrenalectomy for neuroblastoma in children: a report of 6 cases. *J Pediatr Surg*. 2005 Dec;40(12):1948-50.
20. **Wulkan ML**, Durham MM. Obesity in the United States: is there a quick fix? Pros and cons of bariatric surgery from the pediatric perspective. *Curr Gastroenterol Rep*. 2005 Dec;7(6):445-50.
21. **Wulkan ML**, Saad DF, Georgeson KG. How to make a graceful exit: lessons learned from 2 cases. *Surgery*. 2006 Mar;139(3):435-7.
22. Gow KW, **Wulkan ML**, Heiss KF, Haight AE, Heard ML, Rycus P, Fortenberry JD. Extracorporeal membrane oxygenation for support of children after hematopoietic stem cell transplantation: the Extracorporeal Life Support Organization experience. *J Pediatr Surg*. 2006 Apr;41(4):662-7.
23. Milas ZL, Milner R, Chaikoff E, **Wulkan M**, Ricketts R. Endograft stenting in the adolescent population for traumatic aortic injuries. *J Pediatr Surg*. 2006 May;41(5):e27-30.

24. Gow KW, Bhatia A., Saad DF, **Wulkan ML**, Heiss KF. Left-sided gastroschisis. *Am Surg.* 2006 Jul; 72(7):637-40.
25. Albanese CT. **Wulkan M.** Confronting the future of surgery: the technology committee of the International Pediatric Endosurgery Group. *J Laparoendosc Adv Surg Tech A.* 2006 Dec; 16(6):633.
26. Inge TH, **Wulkan M.** Is open or laparoscopic pyloromyotomy better for hypertrophic pyloric stenosis. *Nat Clin Pract Gastroenterol Hepatol.* 2007 Apr;4(4):196-7.
27. Kogan BE, Forbess JM, **Wulkan ML**, Kirshbom PM, Kanter KR. Video-assisted Thoracoscopic: Is it a Superior Technique for the Division of Vascular Rings in Children? *Congenital Heart Disease* 2007 Apr;2 (2), 130-133.

b. Manuscripts submitted:

Koontz C, **Wulkan ML.** Laparoscopic Repair of Congenital Duodenal Obstruction in Infants. *Submitted J Pediatr Surg.*

c. Review articles:

Wulkan ML, Georgeson K. Primary Laparoscopic Endorectal Pull-through for Hirschsprung's Disease in Infants and Children. *Seminars in Laparoscopic Surgery* 1998;1(5); 9-13.

Wulkan ML. Computers and the pediatric surgeon: A primer. *Sem Pediatr Surg* 2000; 9(1); 2-5.

Wulkan ML, Durham MM. Obesity in the United States: Is There a Quick Fix? Pros and Cons of Bariatric Surgery from the Pediatric Perspective. *Curr Gastroenterol Rep.* 2005 Dec;7(6):445-450.

d. Book Chapters

Wulkan ML. Splenectomy. Chapter 106 in Surgical Directives: Pediatric Surgery, ed. Peter Mattei, Lippincott Williams & Wilkins, 2003.

Wulkan ML, Teitelbaum DH, Georgeson KE, and Langer JC. Hirschsprung's Disease. Chapter 56 in Operative Surgery, eds. Moritz Ziegler, Richard Azizkhan, and Thomas Weber, McGraw-Hill, 2003.

Wulkan ML. Laparoscopic Adrenalectomy in Children: An Outcomes Analysis. Chapter in Pediatric Minimal Access Surgery, ed. Jacob Langer and Craig Albanese, Marcel Dekker, Inc., in press.

Lee H, **Wulkan ML.** Laparoscopic Evaluation and Treatment of Rotational Anomalies. Chapter in Pediatric Laparoscopy, ed. Thom Lobe, Landes Bioscience, 2003.

e. Manuals, videos, computer programs, and other teaching aids

Wulkan, M. Developed PDA based database for pediatric Surgery; 1998-present; Atlanta, GA.

Wulkan ML, Lott T. Developed *Computer Aided Restriction Endonuclease Mapping Software*. 1985; Atlanta, GA.

Wulkan ML, Atkinson J. Developed *EdAct* Computer Educational Activities Documentation Program. 1985; Atlanta, GA.

Wulkan ML, Atkinson J. Developed *Pharmacy Automated Purchasing System*. 1982-89; Atlanta, GA.

Wulkan ML, Hardin W. *Pediatric Surgery Web Site* (<http://pedsurg.surgery.uab.edu>). 1995; Birmingham, AL.

Wulkan ML, Natale P, Hardin W. *Infection Control Computer Based Learning Module*. 1996; Birmingham, AL.

Wulkan ML, Hardin W. Pediatric Surgery Case Studies. *Pediatric Surgery Web Site* December 1995-present; Birmingham, AL.

Oaks J, **Wulkan ML,** Hardin W. Lumps, Bumps, and Holes: A Primer on Occult Spinal Dysraphism. *Pediatric Surgery Web Site* March 1996; Birmingham, AL.

Wulkan ML, Natale P, Hardin W. *Children's Online* (<http://www.chsys.uab.edu>). Birmingham, AL. October 1996-present; Birmingham, AL.

Cotton R, **Wulkan ML,** Hardin W. Laryngotracheal Reconstruction. *Pediatric Surgery Web Site* May 1996; Birmingham, AL.

f. Videos

Wulkan ML, Georgeson K. Laparoscopic Nissen Fundoplication and Gastrostomy Tube. May 1998; Birmingham, AL.

Wulkan ML, Georgeson K. Laparoscopic Assisted Primary Endorectal Pull-through for Hirschsprung's Disease. May 1998; Birmingham, AL.

Wulkan ML. Nissen Fundoplication. (SAGES Meeting). March 2000; Atlanta, GA.

Wulkan ML, Heiss K., Meier, A. Laparoscopic Pyloromyotomy. APSA Endoscopic Surgery Videotape – 2003.

Georgeson K, **Wulkan ML**. Laparoscopic Pull-through for Hirschsprung's Disease. APSA Endoscopic Surgery Videotape – 2003.

Lin E, **Wulkan ML**. Laparoscopic Subtotal Colectomy for Ulcerative Colitis. APSA Meeting, May 2002, Phoenix, AZ.

Wulkan ML. Laparoscopic Fundoplication. IPEG Meeting, March 2003, Los Angeles, CA.

Wulkan ML. Thoracoscopic Division of a Vascular Ring. IPEG Meeting, May 2004, Maui, Hawaii.

Wulkan ML. Laparoscopic Reduction of Intussusception. ACS Clinical Congress Meeting, Video-Based Education Program, October, 2005, San Francisco, CA.

Wulkan ML, Saad DF. Thoracoscopic Repair of Esophageal Atresia using Intracorporeal Knot Tying. SAGES 2005 Annual Meeting, April 2005, Hollywood, FL.

g. Published Abstracts

McKenney MG, Windsor J, **Wulkan ML**, Bilsker M, Albeg J, Civetta JM. Can Doppler Echocardiography be used to Accurately Estimate Cardiac Output and Left Ventricular Filling Pressure?. *Journal of Critical Care Medicine* 1993;21:S267.

McKenney MG, Windsor J, **Wulkan ML**, Bilsker M, Albeg J, Civetta JM. Can Doppler Echocardiography be used to Accurately Estimate Cardiac Output and Left Ventricular Filling Pressure?. *Medicina Intensiva*, 1993,17:S42.

McKenney MG, Sleeman, D, Sosa JL, Windsor J, **Wulkan ML**, Bilsker M, Albeg J, Civetta JM. Can Doppler Echocardiography be used to Accurately Estimate Cardiac Output and Left Ventricular Filling Pressure? *Clinical and Investigative Medicine* 1993;16(4):B13.

Ford H, Reblock K, Teramana C, Watkins S, **Wulkan ML**, Abou-Jaoude W, Rowe M. The Role of Nitric Oxide in the Pathogenesis of Necrotizing Enterocolitis. *Surgical Forum* 1995; 642-644.

Wulkan ML, Owings E, Georgeson K. Safety and Efficacy of the 2 U-Stitch Gastrostomy Tube. *Surgical Endoscopy* 1998; 12(5); 563.

Gibbons TE, Ricketts RR, **Wulkan ML**, Gold BD. Nissen Fundoplication: Open versus Laparoscopic Technique in Children Population less than 5 Years Old. *Gastroenterology* 2001; 120(5); 157.

Milas Z, **Wulkan ML**. Laparoscopic Adrenalectomy for Neuroblastoma: A Report of 2 Cases. *Pediatric Endosurgery & Innovative Techniques* 6:100, 2002.

Vasudevan S, Thourani V, **Wulkan, M**. Preliminary Comparison of Laparoscopic vs. Open Nissen Fundoplication in Patients with Congenital Heart Disease. *Pediatric Endosurgery & Innovative Techniques* 6:107, 2002.