

Francois I. Luks, M.D., Ph.D.
Curriculum Vitae

Division of Pediatric Surgery
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EDUCATION

August 1979 Rijksuniversitair Centrum Antwerpen
Kandidaat in de Medische Wetenschappen
(Bachelor in Medical Sciences)
August 1983 Universitaire Instelling Antwerpen
Doctor in de Genees-, Heel- en Verloskunde (M.D. Degree)
May 1998 Catholic University Leuven
Doctor in the Medical Sciences (Ph.D. Degree)
Thesis: "A model for fetal surgery through intrauterine endoscopy"

POSTGRADUATE TRAINING

1984 - 1987 Residency in General Surgery
Lutheran Medical Center (State University of New York)
Brooklyn, NY
1987 - 1989 Residency in General Surgery
Catholic Medical Center of Brooklyn & Queens (Cornell University)
Queens, NY
1989 - 1991 Residency in Pediatric Surgery
Hopital Ste-Justine, Université de Montréal
Montreal, Canada
1992 - 1994 Research Fellowship
Catholic University of Leuven, Centre for Surgical Technologies
Leuven, Belgium

POSTGRADUATE HONORS AND AWARDS

1993 - 1994 Doctorate Scholarship
Research Council of the Catholic University of Leuven
1992 - 1993 Research Scholarship
Faculty of Medicine, Catholic University of Leuven
May 1998 Master of Arts ad eundem
Brown University
1999-2000 Faculty Teaching Award
Department of Surgery, Brown Medical School
May 2007 Faculty election to Alpha Omega Alpha Honor Medical Society
Alpha Chapter AΩA Rhode Island, Brown University
2007 – 2008 Faculty Teaching Award
Department of Surgery, Brown Medical School
1996-2008 Elected for inclusion in Best Doctors in America® from 1996-2008

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

1983 Belgian Medical License # 1/17310/60/001
1987 New York State Medical License # 171540
1991 Rhode Island State Medical License # 8091
1990 Diploma of the American Board of Surgery # 35546 (Re-certified 2000)
1991 D.E.A. # BL3076228
1991 Diplôme d'Etudes Spécialisées (Pediatric Surgery) Université de Montréal
1992 Certificate of Special Qualifications in Pediatric Surgery # 576 (Re-certified 2001)
American Board of Surgery
2000 Massachusetts State Medical License # 155497
2004 Instructor, Advanced Trauma Life Support #277892

ACADEMIC APPOINTMENTS

1994 - 97 Assistant Professor of Surgery and Pediatrics
Brown Medical School
1997 - Associate Professor of Surgery and Pediatrics
Brown Medical School
1997 - 02 Assistant Director, Pediatric Surgery Residency Program
Brown Medical School
2000 - Director, Program in Fetal Medicine
Brown Medical School
2005 - Professor of Surgery and Pediatrics
Brown Medical School
2006 - Professor of Surgery, Pediatrics, Obstetrics & Gynecology
Brown Medical School

HOSPITAL APPOINTMENTS

1994 – Attending Surgeon
Division of Pediatric Surgery
Hasbro Children's Hospital and Rhode Island Hospital
1994 – Attending Surgeon
Women & Infants' Hospital of Rhode Island
1995 – Director for Trauma, Pediatric Intensive Care Unit
Hasbro Children's Hospital
1999 – 2002 Attending Surgeon
Morton Hospital, Taunton, MA
2000 – 2009 Attending Surgeon
New England Medical Center, Boston, MA

OTHER APPOINTMENTS

1992 - 94 Abstract Editor (International Abstracts in Surgery), J Am Coll Surg
1995 - 97 Contributing Editor (Pediatric Surgery), Yearbook of Surgery
2001 Guest Editor, Medicine & Health/Rhode Island Vol. 84(5), May 2001
2002 Associate Examiner, American Board of Surgery

- 2009 Reviewer, Technical Brief EHC-2009-02-0008 (Fetal Surgery)
 Agency for Healthcare Research and Quality (AHRQ)
- Ad Hoc Manuscript Reviewer
- American Journal of Obstetrics and Gynecology
 - American Journal of Respiratory and Critical Care Medicine
 - Annals of Thoracic Surgery
 - Archives of Diseases in Children
 - European Journal of Obstetrics, Gynecology and Reproductive Biology
 - Fetal Diagnosis and Therapy
 - Gynecologic and Obstetric Investigation
 - International Journal of Medical Robotics and Computer-Assisted Surgery
 - Journal of Pediatric Gastroenterology and Nutrition
 - Journal of Pediatric Surgery
 - Journal of Pediatric Urology
 - Neonatology (Biology of the Neonate)
 - Prenatal Diagnosis
 - Reproductive Sciences
 - Southern Medical Journal
 - Surgery
 - Surgical Endoscopy
 - Ultrasound in Obstetrics and Gynecology
- Ad Hoc Grant Reviewer
- Wellcome Foundation
 - Canadian Innovation Fund, Canadian Research Council
- Ad-Hoc Site Reviewer
- 02-2002 Mercy Children's Hospital Pediatric Trauma Center, Kansas City, MO
 (State of Missouri Trauma Accreditation Survey)
- 01-2007 Consultant, Lead Users Design Workshop
 Solutia, Inc., Orlando, FL

HOSPITAL COMMITTEES

- 1995 - 96 Pediatric Trauma Patient Care Committee, Hasbro Children's Hospital (Acting Chair)
- 1995 - 96 Medical Records Committee, Rhode Island Hospital
- 1995 - Pediatric Inpatient Quality Improvement Committee, Hasbro Children's Hospital
- 1995 - Trauma Committee, Rhode Island Hospital
- 1995 - Department of Surgery Quality Improvement Committee
- 1996 Ad Hoc Committee on Rewarming of the hypothermic patient (Chair)
- 1996 - Pediatric Trauma Patient Care Committee, Hasbro Children's Hospital (Chair)
- 2003 - 04 Service Lines Evaluation Committee, Women & Infants' Hospital
- 2004 - 06 Medical Executive Council, Rhode Island Hospital
- 2004 - Pediatric Physician Review Group, Women & Infants' Hospital
- 2004 Ad Hoc Committee, Credentialing Committee, Rhode Island Hospital
- 2004 Ad Hoc Committee, Strategic Planning, Bylaws Committee, Rhode Island Hospital
- 2007 - Laser Safety Committee, Rhode Island Hospital

UNIVERSITY COMMITTEES

- 1995 Search Committee, Pediatric Critical Care Faculty
- 1997 Search Committee, Pediatric Surgery Faculty (Chair)
- 1997 - Antenatal Diagnosis and Management Conference (Co-Director)
- 1999 Advisory Committee, Department of Surgery Chair Search
- 2000 - 01 Advisory Committee, Department of Surgery Chair Search
- 2000 Search Committee, Chair of Neurosciences
- 2000 Search Committee, Pediatric Emergency Medicine Faculty
- 2001 - Biomedical Faculty Council, Brown University
- 2002 - 03 Search Committee, Chairman of Pediatrics
- 2005 - Promotions and Appointments Committee, Department of Surgery
- 2007 - 09 Search Committee, Chief of Division of Trauma and Critical Care (Chair)
- 2007 - Search Committee, Pediatric Infectious Diseases Faculty
- 2007 - Medical Faculty Executive Committee, Brown University

MEMBERSHIPS IN SOCIETIES AND NATIONAL COMMITTEES

- 1990 American College of Surgeons (Fellow, 1997)
- 1991 Trauma Association of Canada
- 1991 Société Française de Chirurgie Pédiatrique
- 1992 Canadian Association of Paediatric Surgeons
 - 1996 - 01 Committee on laparoscopy
 - 2001 - 06 Publications Committee
- 1992 Belgian Association of Pediatric Surgery
- 1993 International Fetal Medicine & Surgery Society
- 1994 Providence Surgical Society/R.I. Chapter, A.C.S.
- 1996 American Academy of Pediatrics (Specialty Fellow, Surgical Section)
- 1996 Pediatric Oncology Group/Children's Oncology Group
- 1996 Pediatric Surgery Biology Club
- 1997 International Pediatric Endosurgery Group
 - 2000 - Standards/Ethics Committee
- 1998 American Pediatric Surgical Association
 - 2001 - 05 Publications Committee
 - 2003 - 09 Fetal Diagnosis and Treatment Committee (Chair 2007-09)
- 1998 New England Surgical Society
- 1999 Society of University Surgeons
 - 2001 - 03 Membership Committee
- 2001 Birth Defects Surveillance Advisory Committee, R.I. Department of Health
- 2004 National Institutes of Health Workshop: Fetal Treatment: Needs Assessment And Future Directions, August 2004, Potomac, MD (invited participant)
- 2005 North-American Fetal Therapy Network
 - 2005 - Steering Committee
 - 2006 - Web site Committee (Chair)
 - 2008 - Executive Committee
- 2005 Data and Safety Monitoring Committee, Fetal Cardiac Surgery Program, Boston Children's Hospital-Harvard Medical School
- 2007 - 09 Data and Safety Monitoring Committee, Collagen Plugs for Premature Rupture of Membranes Trial, Texas Children's Hospital (Chair)

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Luks FI: An easy approach to the slit catheter technique for intra-compartmental pressure measurement. *Surg Gynecol Obstet* 167:518-520, 1988.
2. Luks FI, Hansbrough F, Klotz DH, Jr., Kottmeier PK, Tolete-Velcek F: Early gender assignment in true hermaphroditism. *J Pediatr Surg* 23:1122-1126, 1988.
3. Luks FI, Huntley HN, Tula JC, Pizzi WF: Small-bowel obstruction by an inflatable penile prosthesis. *Surgery*, 106:101-104, 1989.
4. Luks FI, Picard DL, Pizzi WF: Electrocardiographic guidance for percutaneous placement of central venous catheters. *Surg Gynecol Obstet* 169:157-158, 1989.
5. Lee HS, Lamaute HR, Pizzi WF, Picard DL, Luks FI: Acute gastro-duodenal perforation associated with use of crack. *Ann Surg* 210:15-17, 1990.
6. Luks FI, Shah MN, Bulaitan MC, Lopresti PA, Pizzi WF: Adult foregut duplication. *Surgery* 108:101-104, 1990.
7. Luks FI, Yazbeck S, Brandt ML, Desjardins JG: Fièvre transitoire associée à la réduction de l'invagination intestinale. *Chir Pédiatr* 31:157-159, 1990.
8. Brandt ML, Luks FI, Filiatrault D, Desjardins JG, Youssef S: Surgical indications for antenatally diagnosed ovarian cysts. *J Pediatr Surg* 26:276-282, 1991.
9. Brandt ML, Luks FI, St Vil D, Laberge JM, Laberge-Caouette L, Blanchard H: The use of Glisson's capsule flap in reduced orthotopic liver transplantation in children. *Surg Gynecol Obstet* 172:321-322, 1991.
10. Bass J, Luks F, Yazbeck S: Long term follow-up of sacro-coccygeal teratomas with emphasis on ano-rectal function. *Pediatr Surg Int* 6:119-121, 1991.
11. Luks FI, Battaglia SA, Picard DL, Pizzi WF: A reappraisal of exclusion angiography in gunshot wounds of the extremities. *Vasc Surg* 25:295-300, 1991.
12. Andzé GO, Luks FI, Bensoussan AL, Blanchard H: Place du traitement chirurgical du reflux gastro-oesophagien chez l'enfant atteint d'asthme sévère. *Pédiatrie* 46:451-454, 1991.
13. St-Vil D, Luks FI, Lebel P, Brandt ML, Paradis K, Weber A, Guay J, Bensoussan AL, Laberge JM, Blanchard H: Infectious complications of pediatric liver transplantation. *J Pediatr Surg* 26:908-913, 1991.
14. Luks FI, Yazbeck S, Brandt ML, Bensoussan AL, Brochu P, Blanchard H: Benign liver tumors in children. A 25 year experience. *J Pediatr Surg* 26:1326-1331, 1991.
15. Luks FI, Chung MA, Brandt ML, Hertecant J, Roy CC, Blanchard H, Bensoussan AL: Pneumatosis in chronic idiopathic intestinal pseudo-obstruction. *J Pediatr Surg* 26:1384-1386, 1991.
16. Yazbeck S, Luks FI, St-Vil D: Anterior perineal approach and three flap anoplasty for imperforate anus: optimal reconstruction with minimal destruction. *J Pediatr Surg* 27: 190-195, 1992.
17. Hancock BJ, St-Vil D, Luks FI, DiLorenzo M, Blanchard H: Complications of lymphangiomas in children. *J Pediatr Surg* 27: 220-226, 1992.
18. Brandt ML, Luks FI, Spigland NA, DiLorenzo M, Laberge JM, Ouimet A: Diaphragmatic injuries in children. *J Trauma* 32:298-301, 1992.
19. St-Vil D, Luks FI, Hancock BJ, Garel L, Brochu P, Bensoussan AL: Diaphragm of the gallbladder. *J Pediatr Surg* 27:1301-1303, 1992.
20. St-Vil D, Yazbeck S, Luks FI, Filiatrault D: Cholelithiasis in newborns and infants. *J Pediatr Surg* 27:1305-1307, 1992.
21. St-Vil D, LeBouthillier G, Luks FI, Bensoussan AL, Blanchard H, Youssef S: Neonatal gastrointestinal perforations. *J Pediatr Surg* 27:1340-1342, 1992.
22. St-Vil D, Luks FI, Derouin M, Bensoussan AL, Blanchard H, Filiatrault D: Les kystes du cholédoque de l'enfant: expérience de l'hôpital Ste-Justine. *Ann Chir* 46:821-825, 1992.

23. Luks FI, Yazbeck S, Perreault G, Desjardins JG: Changes in the presentation of intussusception. *Am J Emerg Med* 10:574-756, 1992.
24. Luks FI, St-Vil D, Farrell CA, Angaté H, Chartrand C: Inadvertent pericardiaco-phrenic vein catheterization. *Chest* 102:1635, 1992.
25. Luks FI, Lemire A, St-Vil D, DiLorenzo M, Filiatrault D, Ouimet A: Blunt abdominal trauma in children: the practical value of ultrasonography. *J Trauma* 34:607-611, 1993.
26. Luks FI, Yazbeck S, Homsy Y, Collin PP: Abdominoscrotal hydrocele. *Eur J Pediatr Surg* 3:176-178, 1993.
27. Luks FI, De Paepe ME, DiLorenzo M, Mercier C, Desjardins JG: Tailgut remnant — or teratoma? *Eur J Pediatr Surg* 3:182-185, 1993.
28. Lallier M, St-Vil D, Luks FI, Laberge JM, Bensoussan AL, Guttman FM, Blanchard H: Biliary tract complications in pediatric orthotopic liver transplantation. *J Pediatr Surg* 28:1102-1105, 1993.
29. Luks FI, St-Vil D, Hancock BJ, Laberge JM, Bensoussan AL, Mitchell G, Russo P, Lambert M, Blanchard H: Surgical and metabolic aspects of liver transplantation for tyrosinemia. *Transplantation* 56:1376-1380, 1993.
30. Lallier M, St-Vil D, Luks FI, Laberge JM, Bensoussan AL, Blanchard H: Complications biliaires en transplantation hépatique pédiatrique. *Ann Chir* 47:821-825, 1993.
31. Bruneau N, St-Vil D, Luks FI, Laberge JM, Bensoussan AL, Blanchard H: Les aspects chirurgicaux et métaboliques de la transplantation hépatique pour la tyrosinémie. *Ann Chir* 47:803-809, 1993.
32. Luks FI, Deprest J, Marcus M, Vandenberghe K, Vertommen JD, Lerut T, Brosens I: Carbon dioxide pneumoamnios causes acidosis in fetal lamb. *Fetal Diagn Ther* 9:105-109, 1994.
33. Luks FI, Deprest JA, Vandenberghe K, Laermans I, Desimpelaere L, Brosens IA, Lerut T: Fetoscopy-guided fetal endoscopy in a sheep model. *J Am Coll Surg* 178:609-612, 1994.
34. Luks FI, Deprest J, Brosens I, Lerut T: Extracorporeal surgical knot. *J Am Coll Surg* 179:220-222, 1994.
35. Luks FI, Deprest JA, Vandenberghe K, Brosens IA, Lerut T: A model for fetal surgery through intra-uterine endoscopy. *J Pediatr Surg* 29:1007-1009, 1994.
36. Brandt ML, Luks FI, Lacroix J, Guay J, Collin PP, DiLorenzo M: The paediatric chest tube. *Clin Intens Care* 5:123-129, 1994.
37. Luks FI, Deprest JA, Peers KHE, Desimpelaere L, Vandenberghe K: Infrared fetoscopy in the sheep. *Fetal Diagn Ther* 9:327-330, 1994.
38. van der Wildt B, Luks FI, Steegers EAP, Deprest JA, Peers KHE: Absence of electrical uterine activity after endoscopic access for fetal surgery in the Rhesus monkey. *Eur J Obstet Gynecol Reprod Biol* 58:213-214, 1995.
39. Deprest JA, Luks FI, Vandenberghe K, Brosens IA, Lerut T, Van Assche FA: Intra-uterine video-endoscopic creation of lower urinary tract obstruction in the fetal lamb. *Am J Obstet Gynecol* 172:1422-1426, 1995.
40. Luks FI, Peers KHE, Deprest JA, Lerut TE: Gasless laparoscopy in infants: The rabbit model. *J Pediatr Surg* 30:1206-1208, 1995.
41. Luks FI, Gilchrist BF, Jackson BT, Piasecki GJ: Endoscopic tracheal obstruction with an expanding device in a fetal lamb model. Preliminary considerations. *Fetal Diagn Ther* 11:67-71, 1996.
42. Luks FI, Peers KHE, Deprest JA, Lerut TE, Vandenberghe K: The effect of open and endoscopic fetal surgery on uteroplacental oxygen delivery in the sheep. *J Pediatr Surg* 31:310-314, 1996.
43. Chen EA, Luks FI, Gilchrist BF, Wesselhoeft CW, Jr., DeLuca FG: Pyloric stenosis in the age of ultrasonography: Fading skills, better patients? *J Pediatr Surg* 31:829-830, 1996.

44. DeLuca FG, Wesselhoeft CW, Gilchrist BF, Paquette E, Wesselhoeft CW, Luks FI: External compression as initial management of giant omphaloceles. *J Pediatr Surg* 31:965-967, 1996.
45. Guluserian KJ, Gilchrist BF, Luks FI, Wesselhoeft CW, Jr., DeLuca FG: Child abuse as a cause of traumatic chylothorax. *J Pediatr Surg* 31:1696-1697, 1996.
46. Pricolo VE, Potenti FM, Luks FI. Selective preservation of the anal transition zone in ileo-anal pouch procedures. *Dis Colon Rectum* 39:871-877, 1996.
47. Papadakis K, Luks FI, De Paepe ME, Piasecki GJ, Wesselhoeft CW, Jr. Fetal lung growth after tracheal ligation is not solely a pressure phenomenon. *J Pediatr Surg* 32:347-351, 1997.
48. Gilchrist BF, Luks FI, DeLuca FG, Wesselhoeft CW, Jr. A modified feeding Roux-en-Y jejunostomy in the neurologically damaged child. *J Pediatr Surg* 32:588-589, 1997.
49. Luks FI, Deprest JA, Gilchrist BF, Peers KHE, van der wildt B, Steegers EAP, Vandenberghe K. Access techniques in endoscopic fetal surgery. *Eur J Pediatr Surg* 7:131-134, 1997.
50. Evrard VAC, Verbeke K, Peers KH, Luks FI, Lerut AE, Vandenberghe K, Deprest JAM. Amnioinfusion with Hartmann's solution: A safe distention medium for endoscopic fetal surgery in the ovine model. *Fetal Diagn Ther* 12:188-192, 1997.
51. Ng T, Lessin MS, Luks FI, Wallach MT, Wesselhoeft CW, Jr. Wandering spleen presenting as duodenal obstruction after congenital diaphragmatic hernia repair. *J Pediatr Surg* 32:1790-1792, 1997.
52. De Paepe ME, Papadakis K, Johnson BD, Luks FI. Fate of the type II pneumocyte following tracheal occlusion in utero: A time-course study in fetal sheep. *Virchows Arch* 432:7-16, 1998.
53. De Paepe ME, Papadakis K, Johnson BD, Luks FI. Temporal pattern of accelerated lung growth in the fetal rabbit. *Am J Pathol* 152:179-190, 1998.
54. Lessin MS, Luks FI, Wesselhoeft CW, DeLuca FG. Peritoneal drainage as definitive treatment for intestinal perforation in the micro-premature (< 750 g) infant. *J Pediatr Surg* 33:370-372, 1998.
55. Lessin MS, Luks FI. Laparoscopic appendectomy and duodenocolic dissociation (L.A.D.D.) procedure for malrotation. *Pediatr Surg Int* 13:184-185, 1998.
56. Papadakis K, Luks FI, Deprest JA, Evrard V, Flageole H, Miserez M, Lerut TE. Single-port tracheoscopic surgery in the fetal lamb. *J Pediatr Surg* 33:918-920, 1998.
57. Papadakis K, De Paepe ME, Tackett LD, Piasecki GJ, Luks FI. Temporary tracheal occlusion causes catch-up lung maturation in a fetal model of diaphragmatic hernia. *J Pediatr Surg* 33:1030-1037, 1998.
58. Luks FI, Johnson BD, Papadakis K, Traore M, Piasecki GJ. Predictive value of monitoring parameters in fetal surgery. *J Pediatr Surg* 33:1297-1301, 1998.
59. Papadakis K, Chen EA, Luks FI, Lessin MS, Wesselhoeft CW, Jr., DeLuca FG. The changing presentation of pyloric stenosis. *Am J Emerg Med* 17:67-69, 1999.
60. Lessin MS, Luks FI, Brem AS, Wesselhoeft CW, Jr.: Primary laparoscopic placement of peritoneal dialysis catheters in children and young adults. *Surg Endosc* 13:1165-1167, 1999.
61. Tackett LD, Breuer CK, Luks FI, Caldamone AA, Efthemiou E, Wesselhoeft CW, Jr.: Incidence of contralateral inguinal hernia: a prospective analysis. *J Pediatr Surg* 34:684-688, 1999.
62. De Paepe ME, Sardesai MP, Johnson BD, Papadakis K, Luks FI: Role of apoptosis in normal and accelerated lung development in fetal rabbits. *J Pediatr Surg* 34:863-871, 1999.
63. Deprest JA, Luks FI, Peers KHE, D'Olieslager J, Van Ginderdeuren R: Natural protective mechanisms against endoscopic white-light injury in the fetal lamb eye. *Obstet Gynecol* 94:124-127, 1999.
64. Luks FI, Deprest JA, Peers KH, Steegers EA, van der Wildt B. Gelatin sponge plug to seal fetoscopy port sites: technique in ovine and primate models. *Am J Obstet Gynecol* 181:995-996, 1999.
65. Lessin MS, Chan M, Catalozzi M, Gilchrist BF, Richards C, Manera L, Wallach MT, Luks FI:

- Selective use of ultrasonography for acute appendicitis in children. *Am J Surg* 177:193-196, 1999.
66. Luks FI, Logan J, Papadakis K, Breuer CK, Kurkchubasche AG, Wesselhoeft CW, Jr., Tracy TF: Cost-effectiveness of laparoscopy in children. *Arch Pediatr Adolesc Med* 153:965-968, 1999.
 67. De Paepe ME, Johnson BD, Papadakis K, Luks FI: Lung growth response after tracheal occlusion in fetal rabbits is gestational age-dependent. *Am J Resp Cell Mol Biol* 21:65-76, 1999.
 68. Lessin MS, Wesselhoeft CW, Luks FI, DeLuca FG. Primary repair of long gap esophageal atresia by mobilization of the distal esophagus. *Eur J Pediatr Surg* 9:369-372, 1999.
 69. Roggin KK, Breuer CK, Carr SR, Kurkchubasche AG, Wesselhoeft CW, Jr., Tracy TF, Jr., Luks FI. The unpredictable character of congenital cystic lung lesions. *J Pediatr Surg* 35:801-805, 2000.
 70. Wild YK, Piasecki GJ, De Paepe ME, Luks FI. Short-term tracheal occlusion in fetal lambs with diaphragmatic hernia improves lung function, even in the absence of lung growth. *J Pediatr Surg* 35:775-779, 2000.
 71. Liao SL, Luks FI, Piasecki GJ, Wild YK, Papadakis K, De Paepe ME. Late-gestation tracheal occlusion in the fetal lamb causes rapid lung growth with type II cell preservation. *J Surg Res* 92:64-70, 2000.
 72. Luks FI, Wild YK, Piasecki GJ, De Paepe ME. Short-term tracheal occlusion corrects pulmonary vascular anomalies in the fetal lamb with diaphragmatic hernia. *Surgery* 128:266-272, 2000.
 73. Luks FI. Requirements for fetal surgery: The diaphragmatic hernia model. *Eur J Obstet Gynecol Reprod Biol* 92:115-118, 2000.
 74. De Paepe ME, Rubin LP, Jude C, Lesieur-Brooks AM, Mills DR, Luks FI. Fas-Ligand expression coincides with alveolar cell apoptosis in late-gestation fetal lung development. *Am J Physiol* 279:L967-976, 2000.
 75. Luks FI, Roggin KK, Wild YK, Piasecki GJ, Lesieur-Brooks AM, De Paepe ME. Effect of lung fluid composition on type II cellular activity after tracheal occlusion in the fetal lamb. *J Pediatr Surg* 36:196-201, 2001.
 76. Luks FI. Fetal surgery. *Med Health RI* 84:169-170, 2001.
 77. Luks FI, Carr SR, Ponte B, Rogg JM, Tracy TF, Jr. Preoperative planning with magnetic resonance imaging and computerized volume rendering in twin-to-twin transfusion syndrome. *Am J Obstet Gynecol* 185:216-219, 2001.
 78. De Paepe ME, Burke S, Luks FI, Pinar H, Singer DB. Demonstration of placental vascular anatomy in monochorionic twin gestations. *Pediatr Dev Pathol* 5:37-44, 2002.
 79. Tomicic JT, Luks FI, Shalon L, Tracy TF, Jr. Laparoscopic gastrostomy in infants and children. *Eur J Pediatr Surg* 12:107-110, 2002.
 80. Huang J, Kurkchubasche AG, Carr SR, Wesselhoeft CW, Jr., Tracy TF, Jr., Luks FI. Benefits of term delivery in infants with antenatally diagnosed gastroschisis. *Obstet Gynecol* 100:695-699, 2002.
 81. De Paepe ME, Stopa E, Huang C, Hansen K, Luks FI. Renal tubular apoptosis in twin-to-twin transfusion syndrome. *Pediatr Dev Pathol* 6:215-225, 2003.
 82. Erfanian K, Luks FI, Kurkchubasche AG, Wesselhoeft CW, Jr., Tracy TF, Jr. In-line image projection accelerates task performance in laparoscopic appendectomy, *J Pediatr Surg* 38:1059-1062, 2003.
 83. Luks FI, Carr SR, Feit LR, Rubin LP. Experience with a Multidisciplinary Antenatal Diagnosis And Management model in fetal medicine. *J Mat Fet Neonat Med* 14:333-337, 2003.
 84. Oka T, Kurkchubasche AG, Bussey JG, III, Wesselhoeft CW, Jr., Tracy TF, Jr., Luks FI. Open and laparoscopic appendectomy are equally safe and acceptable in children. *Surg Endosc*

- 18:242-245, 2004.
85. Bussey JG, III, Luks FI, Carr SR, Plevyak M, Tracy TF, Jr. Minimal access fetal surgery for twin-to-twin transfusion syndrome (TTTS). *Surg Endosc* 18:83-86, 2004.
 86. De Paepe ME, Friedman R, Poch M, Hansen K, Carr SR, Luks FI. Placental findings after laser ablation of communicating vessels in twin-to-twin transfusion syndrome (TTTS). *Pediatr Dev Pathol* 7:159-165, 2004.
 87. Luks FI, Carr SR, Plevyak M, Craigo SD, Athanasiou A, Ralston SJ, Tracy, TF, Jr. Limited prognostic value of a staging system for twin-to-twin transfusion syndrome. *Fetal Diagn Ther* 19:301-304, 2004.
 88. Sattar A, McRae R, Mangray S, Hansen K, Luks FI. Core excision of the foramen cecum for recurrent thyroglossal duct cyst (TGDC) after Sistrunk operation and anterior neck dissection. *J Pediatr Surg* 39(4):E3-E5, 2004.
 89. Cloutier DR, Baird T, McCarten K, Bussey JG, III, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Arterial blush in pediatric splenic injuries: A reason to embolize? *J Pediatr Surg* 39:969-971, 2004.
 90. Carr SR, Luks FI, Tracy TF, Jr., Plevyak M. Antenatal Necrotic Injury in Severe Twin-to-Twin Transfusion Syndrome. A Case and Review. *Fetal Diagn Ther* 19:370-372, 2004.
 91. Bussey JG, IIIrd, Luks FI, Varlet F, Reinberg O, Becmeur F, Tracy TF, Jr. Laparoscopy in the diagnosis and treatment of pediatric malignancy. *Pediatr Endosurg Innov Techn* 8:103-107, 2004.
 92. De Paepe ME, Mao Q, Embree-Ku M, Rubin LP, Luks FI. Fas/FasL-mediated apoptosis in perinatal murine lungs. *Am J Physiol Lung Cell Mol Physiol*. 287:L730-L742, 2004.
 93. De Paepe ME, Mao Q, Luks FI. Expression of apoptosis-related genes after fetal tracheal occlusion in rabbits. *J Pediatr Surg* 39:1616-1625, 2004.
 94. Poch M, Luks FI, Carr SR, De Paepe ME. Intratwin arteriovenous fistula of the placenta in a case of twin-to-twin transfusion syndrome. *Am J Perinatol* 22:3-6, 2005.
 95. Truitt AK, Sorrells DL, Halvorson E, Gormley P, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Pulmonary embolism: Which pediatric trauma patients are at risk? *J Pediatr Surg* 40:124-127, 2005.
 96. Lui F, Gormley P, Sorrells DL, Biffi WL, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Pediatric trauma patients with isolated airway compromise or GCS<8: Does immediate attending surgeon presence make a difference? *J Pediatr Surg* 40:103-106, 2005.
 97. Sholler GL, Luks FI, Mangray S, Meech SJ. Advanced small cell carcinoma of the ovary in a pediatric patient with long-term survival and review of the literature. *J Pediatr Oncol* 27:169-172, 2005.
 98. Vrochides DV, Sorrells DL, Jr., Kurkchubasche AG, Wesselhoeft CW, Jr., Tracy TF, Jr., Luks FI. Is there a role for routine, preoperative ERCP for suspected choledocholithiasis in children? *Arch Surg* 140:359-361, 2005.
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81. Tomicic JT, Luks FI, Tracy TF. Laparoscopic gastrotomy in infants. Annual meeting of the French Society for Pediatric Surgery, September 20-22, 2000, Paris.
82. Oka T, Lueders M, Kurkchubasche AG, Wesselhoeft CW, Jr., Tracy TF, Jr., Luks FI. Open and laparoscopic appendectomy are equally safe and acceptable in children. New England Surgical Society Annual Meeting, October 6-8, 2000, Boston, MA.
83. Kurkchubasche AG, Ferguson WF, Luks FI, McCarten KM, Wallach MT, Tracy TF, Jr. Systemic thrombolytic therapy: an effective adjunct in the treatment of acute portal vein thrombosis. Annual Meeting of the American Pediatric Surgical Association, May 20-23, 2001, Naples, FL.
84. Cassese JA, Carr SR, Luks FI, Bianchi DW, Wallach MT. Use of Fetal MRI To Guide Antenatal and Postnatal Management and Interventions. Annual Meeting of the Society for Pediatric Radiology, April 28-May 1, 2002, Philadelphia, PA.
85. Erfanian K, Luks FI, Kurkchubasche AG, Wesselhoeft CW, Jr., Tracy TF, Jr. In-line image projection accelerates task performance in laparoscopic appendectomy. Annual Meeting of the American Pediatric Surgical Association, May 19-22, 2002, Phoenix, AZ.
86. Plevyak M, Luks FI, Caldamone AA, Rubin LP, Craigo SD, Carr SR. Bladder outlet obstruction diagnosed at 19 weeks in a set of dichorionic twins. 21st Annual meeting of the International Fetal Medicine and Surgery Society, September 1-3, 2002, Charlevoix, Quebec.
87. De Paepe ME, Stopa E, Huang C, Hansen K, Plevyak M, Carr SR, Luks FI. Renal tubular apoptosis in twin-to-twin transfusion syndrome. 21st Annual meeting of the International Fetal Medicine and Surgery Society, September 1-3, 2002, Charlevoix, Quebec.
88. Luks FI, Carr SR, Plevyak M, Craigo SD, Athanassiou A, Ralston SJ, Tracy TF, Jr. When even the best is not good enough: staging system and prognosis in twin-to-twin transfusion syndrome. 21st Annual meeting of the International Fetal Medicine and Surgery Society, September 1-3, 2002, Charlevoix, Quebec.
89. De Paepe ME, Mao Q, Jackson CL, Luks FI. Upregulation of Fas-ligand expression after tracheal occlusion in fetal rabbits. 21st Annual meeting of the International Fetal Medicine and Surgery Society, September 1-3, 2002, Charlevoix, Quebec.
90. De Paepe ME, Hansen K, Luks FI. Stereological volumetry of perinatal lung parenchyma: technique and rationale. Annual Meeting of the Society for Pediatric Pathology, September 2002, Dallas, TX.
91. De Paepe ME, Stopa E, Huang C, Luks FI. Apoptosis precedes tubular atrophy in twin-to-twin transfusion syndrome. Annual Meeting of the Society for Pediatric Pathology, September 2002, Dallas, TX.
92. Bonomo JB, Kurkchubasche AG, Bussey JG, Gormley P, Luks FI, Tracy TF, Jr. The vulnerable infant: Features and outcomes of traumatic injury during the first year of life. Annual Meeting of the American Academy of Pediatrics Surgical section, October 2002, Boston, MA.
93. Bussey JG, IIIrd, Luks FI, Varlet F, Reinberg O, Becmeur F, Tracy TF, Jr.. Laparoscopy in the diagnosis and treatment of pediatric malignancy. Annual Meeting of the International Pediatric Endoscopy Group (IPEG), April 2003, Los Angeles, CA.
94. Bussey JG, IIIrd, Luks FI, Carr SR, Plevyak M, Tracy TF, Jr. Minimal Access Fetal Surgery for Twin-to-Twin Transfusion Syndrome (TTTS). Annual Meeting of the International Pediatric Endoscopy Group (IPEG), March 2003, Los Angeles, CA.
95. SattarA, McRae R, Mangray S, Hansen K, Luks FI. Core excision of the foramen cecum for recurrent rhyroglossal duct cyst (TGDC) after Sistrunk operation and anterior neck dissection. 35th Annual Conference, Canadian Association of Paediatric Surgeons, September 2003,

Niagara Falls, ON.

96. De Paepe ME, Friedman R, Poch M, Hansen K, Carr SR, Luks FI. Placental findings after laser ablation of communicating vessels in twinto-twin transfusion syndrome (TTTS). Society for Pediatric Pathology Interim Meeting, October 16-18, 2003, Cincinnati, OH
97. Cloutier DR, Baird T, McCarten K, Bussey JG, III, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Arterial blush in pediatric splenic injuries: A reason to embolize? Annual Meeting of the American Academy of Pediatrics Surgical section, November 2003, New Orleans, LA.
98. Poch M, Dekoninck P, Luks FI, Carr SR, De Paepe ME. Net vascular cross-sectional area correlates with twin-to-twin transfusion. 23rd Annual meeting of the International Fetal Medicine and Surgery Society, March 14-17, 2004, Charleston, SC.
99. Luks FI, Carr SR, Tracy TF, Jr., Rubin LP. The EXIT procedure is for wimps. 23rd Annual meeting of the International Fetal Medicine and Surgery Society, March 14-17, 2004, Charleston, SC.
100. Truitt AK, Sorrells DL, Halvorson E, Gormley P, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Pulmonary embolism: Which pediatric trauma patients are at risk? Annual Meeting of the American Pediatric Surgical Association, May 24-27, 2004, Fort Lauderdale, FL.
101. Lui F, Gormley P, Sorrells DL, Biffi WL, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Pediatric trauma patients with isolated airway compromise or GCS<8: Does immediate attending surgeon presence make a difference? Annual Meeting of the American Pediatric Surgical Association, May 24-27, 2004, Fort Lauderdale, FL.
102. Kurkchubasche AG, Chang J, Luks FI, Sorrells DL, Wesselhoeft CW, Tracy TF, Jr. Incidence and clinical relevance of Wolffian duct remnants in females. Annual Meeting of the American Pediatric Surgical Association, May 24-27, 2004, Fort Lauderdale, FL.
103. Vrochides DV, Sorrells DL, Jr., Kurkchubasche AG, Wesselhoeft CW, Jr., Tracy TF, Jr., Luks FI. Is There a Role for Routine, Preoperative ERCP for Suspected Choledocholithiasis in Children? Annual Meeting of the New England Surgical Society, Montreal, October 1-3, 2004.
104. Kwon A, Sorrells DL, Jr., Cassese J, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Isolated ct diagnosis of pulmonary contusion does not affect morbidity in pediatric trauma patients. Annual Meeting of the American Pediatric Surgical Association, May 29-June 1, 2005, Phoenix, AZ.
105. Luks FI, Carr SR, Cassese C, Kurkchubasche AG, Tracy TF, Jr., Rubin LP. Surgical counseling for congenital lung lesions – the keyhole factor. 24th Annual meeting of the International Fetal Medicine and Surgery Society, May 22-25, 2005, Helsingor, Denmark.
106. Luks FI, Carr SR, Sorrells DL, Jr., Tracy TF, Jr. Clinical experience with the gelatin sponge plug after endoscopic fetal surgery – minimizing the risk of PPRM. 24th Annual meeting of the International Fetal Medicine and Surgery Society, May 22-25, 2005, Helsingor, Denmark.
107. Ballard-Dwan J, Carr SR, Tracy TF, Jr., Cassese C, Luks FI. Selective use of laser ablation in severe (stages I-IV) Twin-To-Twin Transfusion Syndrome. 24th Annual meeting of the International Fetal Medicine and Surgery Society, May 22-25, 2005, Helsingor, Denmark.
108. Ballard-Dwan JE, Carr SR, Sorrells DL, Jr., Luks FI. Antenatal imaging of Treacher Collins Syndrome and Ex Utero Intrapartum Treatment (EXIT) for airway management of micrognathia at delivery – a case report. 24th Annual meeting of the International Fetal Medicine and Surgery Society, May 22-25, 2005, Helsingor, Denmark.
109. Chang J, Carr SR, Tracy TF, Jr., Luks FI. Port insertion and removal techniques to minimize premature rupture of the membranes in endoscopic fetal surgery. Annual Conference, Canadian Association of Paediatric Surgeons, September 2005, Quebec.
110. Luks FI, Sorrells DL, Jr., Kurkchubasche AG, Tracy TF, Jr. The “scarless” appendectomy. Annual Conference, Canadian Association of Paediatric Surgeons, September 2005, Quebec.
111. Truitt AK, Sorrells DL, Jr., Carr SR, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Perinatal management of congenital cystic lung lesions in the age of minimally invasive surgery. Annual

- Conference, Canadian Association of Paediatric Surgeons, September 2005, Quebec.
112. Ballard Dwan J, Carr SR, Tracy TF, Jr., Cassese C, Luks FI. Restricting LASER to stage III – IV Twin-to-Twin Transfusion Syndrome does not worsen outcome. Poster presentation, Annual Meeting of the Society of Maternal-Fetal Medicine, February 2006, Miami, FL.
 113. Carr SR, Luks FI, Carpenter M, Lewi L, Devlieger R, Jani J, Deprest JA. Survival after laser surgery for TTTS: When are they out of the woods? Poster presentation, Annual Meeting of the Society of Maternal-Fetal Medicine, February 2006, Miami, FL.
 114. McKee JQ, Kim DS, Luks FI. Retroperitoneal laparoscopic resection of intraabdominal pulmonary sequestration. Annual Conference of the International Pediatric Endoscopy Group (IPEG) and the Society of American Gastrointestinal and Endoscopic Surgeons, April 2006, Dallas, TX.
 115. Kim DS, Luks FI. Conversion to laparoscopy. 15th International Congress of the Society Of Laparoendoscopic Surgeons, September 2006, Boston, MA.
 116. Tan TW, Kim DS, Wallach MT, Mangray S, Luks FI. Thoracoscopic resection of a giant thymolipoma. 15th International Congress of the Society Of Laparoendoscopic Surgeons, September 2006, Boston, MA.
 117. Johnstone JK, Kim DS, Cassese J, Kim M, Luks FI. Adrenocortical insufficiency secondary to traumatic bilateral adrenal hemorrhage in a child. Annual Meeting of the New England Surgical Society, September 2006, Mystic, CT.
 118. Young J, Kim DS, Muratore CS, Kurkchubasche AG, Tracy TF, Jr., Luks FI. Postoperative bowel obstruction in infants and children. Annual Meeting of the Surgical Section of the American Academy of Pediatrics, October 2006, Atlanta, GA.
 119. Luks FI, Muratore CS, McMurdy JW, Curran S, Carr SR, Crawford GP. Reflectance spectrometry for real-time hemoglobin determination of placental vessels during endoscopic laser surgery for TTTS. 26th Annual meeting of the International Fetal Medicine and Surgery Society, April 29-May 2, 2007, Aruba.
 120. Luks FI, Carr SR, Caldamone AA, Feit LR. Teaching fetal medicine to the next generation of physicians. 26th Annual meeting of the International Fetal Medicine and Surgery Society, April 29-May 2, 2007, Aruba.
 121. Muratore CS, Carr SR, Lewi L, Devlieger R, Carpenter MW, Jani J, Deprest JA, Luks FI. Survival after laser surgery for TTTS: When are they out of the woods? 26th Annual meeting of the International Fetal Medicine and Surgery Society, April 29-May 2, 2007, Aruba.
 122. Abodeely A, Cheah YL, Ryder BA, Luks FI. Eliminating paradoxical imaging during laparoscopic surgery in the age of head-mounted display. Annual Meeting of the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES), April 2008, Philadelphia.
 123. Martin AE, Khan A, Kim DS, Muratore CS, Luks FI. The use of intraabdominal tissue expanders as a primary strategy for closure of giant omphaloceles. Annual Meeting of the American Pediatric Surgical Association, May 29-31, 2008, Phoenix, AZ.
 124. Muratore CS, Carr SR, Lewi L, Devlieger R, Carpenter MW, Jani J, Deprest JA, Luks FI. Survival after laser surgery for TTTS: When are they out of the woods? Annual Meeting of the American Pediatric Surgical Association, May 29-31, 2008, Phoenix, AZ.
 125. Muratore CS, Luks FI, Zhou Y, Harty M, Tracy TF, Jr. Pseudoglandular lung development is altered by endotoxin and tracheal occlusion. Annual Meeting of the American Pediatric Surgical Association, May 29-31, 2008, Phoenix, AZ.
 126. Prendergast CJ, Ryder BA, Abodeely A, Crawford GP, Luks FI. Surgical performance with head-mounted displays in laparoscopic surgery. 17th Annual Congress for Endosurgery in Children, IPEG, June 2008, Cannes, France.
 127. Martin AE, Chen JY, Muratore CS, Mayo-Smith WW, Luks FI. Dual localization technique for thoracoscopic resection of lung lesions in children. 17th Annual Congress for Endosurgery in

- Children, IPEG, June 2008, Cannes, France.
128. O'Brien BM, Luks FI, Feltovich HM, Block WA, Jr., Carr SR, Muratore CS. First (and hopefully last) case of feto-fetal transfusion syndrome in monochorionic quadruplets. 27th Annual meeting of the International Fetal Medicine and Surgery Society, September 12-16, 2008, Athens, Greece.
 129. Ahmed S, Luks FI, O'Brien BM, Muratore CS, Carr SR. Meta-analysis of endoscopic laser surgery for TTTS- influence of experience, case-load and stage distribution on outcome. 27th Annual meeting of the International Fetal Medicine and Surgery Society, September 12-16, 2008, Athens, Greece.
 130. Luks FI, Mayo-Smith WW, Carr SR, Kostandinov S, O'Brien BM, Muratore CS. Pathologic findings after radiofrequency ablation of an acardiac fetus – risk of collateral damage? 27th Annual meeting of the International Fetal Medicine and Surgery Society, September 12-16, 2008, Athens, Greece.
 131. Muratore CS, Carr SR, De Paepe ME, O'Brien BM, Padbury JF, Tracy TF, Luks FI. Lung growth and cell proliferation after late-gestation tracheal occlusion for diaphragmatic hernia and extreme pulmonary hypoplasia. 27th Annual meeting of the International Fetal Medicine and Surgery Society, September 12-16, 2008, Athens, Greece.
 132. Glik S, Silverman K, Silverman HF, Aidlen JT, Luks FI. Head-motion-controlled video goggles: Preliminary concept for an interactive Laparoscopic Image Display (i-LID). 18th Annual Congress for Endosurgery in Children, IPEG, April 2009, Phoenix, AZ
 133. Luks FI, Carr SR, Muratore CS, O'Brien BM, Tracy TF, Jr. The pediatric surgeons' approach to in-utero treatment of feto-fetal transfusion syndrome. 129th Annual Meeting of the American Surgical Association, April 2009, Indian Wells, CA
 134. Curran S, McMurdy J, Carr SR, Muratore CS, O'Brien BM, Crawford GP, Luks FI. Reflectance spectrometry for real-time hemoglobin determination of placental vessels during endoscopic laser surgery for TTTS. Annual Meeting of the American Pediatric Surgical Association, May 28-30, 2009, Fajardo, PR.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

1. Twin-to-twin transfusion syndrome. Information for patients and physicians, Web site of the Lifespan/Brown Medical School Fetal Treatment Program, <http://www.fetal-treatment.org>
2. Patient information, Web site of the Division of Pediatric Surgery at Hasbro Children's Hospital and Brown Medical School, <http://www.pediatric-surgery.ac>
3. Information for physicians, Web site of the Brown University Program in Fetal Medicine, <http://www.fetal-program.org>

INVITED PRESENTATIONS (R=regional, N=national, I=international)

1. "Trauma abdominal". Invited Speaker, Mise à jour en soins intensifs pédiatriques, Continuing Pediatric Education, University of Montreal, December 1990. (R)
2. "Réception de l'enfant polytraumatisé". Guest Lecturer, Course in Pediatrics and Neonatology # MAR2030-A, University of Montreal, April 1991. (R)
4. "Pediatric abdominal trauma". Invited Speaker and Panelist, 7th World Congress on Emergency and Disaster Medicine, Montreal, May 1991. (I)
5. "Diagnostic modalities in pediatric abdominal trauma". Visiting Professor, Department of Surgery, Catholic Medical Center of Brooklyn & Queens, New York, March 1992. (R)
6. "Pediatric liver transplantation". Guest Lecturer, Grand Rounds, Department of Surgery, Rhode Island Hospital, March 1992. (R)

7. "Endoscopische foetale chirurgie". Guest Lecturer, Grand Rounds, Department of Obstetrics & Gynecology, Catholic University of Nijmegen (Netherlands), September 1993. (R)
8. "Chirurgie foetale par voie endoscopique". Guest Lecturer, Grand Rounds, Department of Obstetrics & Gynecology, University of Liège (Belgium), October 1993. (R)
9. "Fetal endoscopic surgery". Visiting Professor, Department of Surgery, Catholic Medical Center of Brooklyn & Queens, New York, November 1993. (R)
10. "Opportunities for applied research in surgical training". Invited speaker, Royal Belgian Society for Surgery Conference, Brussels, February 1994. (N)
11. "Endoscopic fetal surgery". Invited speaker and panelist, Annual Conference of the Belgian Pediatric Society, Antwerp, Belgian Society of Neonatologists & Pediatric Intensivists, March 1994. (N)
12. "Endoscopische foetale chirurgie". Invited speaker, Pediatric Grand Rounds, Catholic University Leuven, May 1994. (R)
13. "Endoscopic fetal surgery: lessons from animal experiments". Invited speaker and panelist, Perspectives in fetal medicine and surgery Conference, Leuven, Belgium, June 1994. (N)
14. "Current status of fetal surgery". Guest Lecturer, Department of Obstetrics & Gynecology, Staten Island University Hospital, Staten Island, NY, April 1995. (R)
15. "Endoscopic surgery in the *really* small patient". Guest Lecturer, Grand Rounds, Division of Pediatric Surgery, Cornell University Medical Center, New York, November 1995. (R)
16. "Fetal endoscopy and surgery: Lessons from experimental surgery on animals". Invited Speaker and panelist, Annual Congress of the European Society for Gynaecological Endoscopy, Brussels, December 1995. (I)
17. "Current status of fetal surgery" (Grand Rounds), "Pediatric laparoscopy", "Intestinal obstruction in infants and children". Visiting Professor, Department of Surgery, Berkshire Medical Center, Pittsfield, MA, February 1995. (R)
18. "Antenatal diagnosis and the pediatric surgeon". Invited Speaker, Grand Rounds, Department of Obstetrics & Gynecology, Binghamton, NY, March 1996. (R)
19. "Amniotic space: The final frontier". Invited Speaker, Grand Rounds, Department of Obstetrics & Gynecology, State University of New York at Syracuse, March 1996. (R)
20. "Prenatal intrauterine surgery". Invited Speaker, Triboro Grand Rounds, Triboro Association of Directors in Surgery, State University of New York at Brooklyn, March 1996. (R)
21. "Fetal surgery update". Invited Speaker, Grand Rounds, Department of Surgery, Catholic Medical Center of Brooklyn & Queens, March 1996. (R)
22. "Pre- and postnatal treatment of diaphragmatic hernia". Invited Speaker, 19th Annual "Current concepts in fetal and neonatal care" symposium, May 1996, Newport. (R)
23. "Laparoscopy in pediatric surgery". Guest Lecturer, Third Annual Pediatric Symposium, Hasbro Children's Hospital, October 1996. (R)
24. "Fetal surgery: The next generation". Invited Speaker, Grand Rounds, Department of Surgery, Hospital for Sick Children, Toronto, November 1996. (R)
25. "Fetal surgery: The next generation". Invited Speaker, Grand Rounds, Department of Obstetrics and Gynecology, Catholic Medical Center of Brooklyn and Queens, New York, February 1997. (R)
26. "Fetal surgery for diaphragmatic hernia - An update". Invited Speaker, Grand Rounds, Department of Surgery, New England Medical Center - Tufts University, Boston, September 1997. (R)
27. "Triage in Pediatric Trauma". Invited Speaker, Pediatric Grand Rounds, St. Anne Hospital, Fall River, MA, May 1998. (R)
28. "Experimental endoscopic treatment of fetal diaphragmatic hernia". Invited Speaker and Panelist, Nobel Minisymposium on Fetal Medicine, Nobel Forum, Karolinska Institute,

- Stockholm, Sweden, May 1998. (I)
29. "Revisiting the acute abdomen", "The mystery lump in the groin". Invited Speaker, Problems in Pediatrics Course, Colby College, Waterville, ME, July 1998. (R)
 30. "Minimally invasive surgery in the newborn". Invited Speaker, Plenary Session, American Academy of Pediatrics Annual Meeting, San Francisco, CA, October 1998. (N)
 31. "Fetal surgery: In praise of tunnel vision." Invited Speaker, Grand Rounds, Department of Obstetrics and Gynecology, Lenox Hill Hospital, New York, December 1998. (R)
 32. "Endoscopic fetal surgery today: All dressed up and nowhere to go." Invited speaker, Grand Rounds, Department of Surgery, The Children's Hospital, Boston, March 1999. (R)
 33. "Update on fetal surgery." Invited speaker, Perinatology Conference, Department of Pediatrics, The Floating Hospital for Children, Boston, April 1999. (R)
 34. "Your child with scoliosis." Invited speaker, 1st Frank DeLuca Symposium in Pediatric Surgery, Newport, April 1999. (R)
 35. "Prenatal diagnosis of fetal structural anomalies." Invited speaker, Current concepts in fetal and neonatal care, Newport, May 1999. (R)
 36. "Fetal surgery for Twin-to-twin Transfusion Syndrome" Invited speaker, Division of Maternal-Fetal Medicine, New England Medical Center, Boston, September 1999. (R)
 37. "Mission impossible: Fetal surgery today" Invited speaker and panelist, Society of Pediatric Pathology Annual meeting, Providence, September 1999. (N)
 38. "PLUG vs. PLUM: Growth versus maturation of the fetal lung after tracheal occlusion" Invited speaker, Pediatric Surgery/Pediatric Anesthesia Grand Rounds, Massachusetts General Hospital, Boston, January 2000. (R)
 39. "Requirements for in utero surgery: The diaphragmatic hernia model" Invited speaker, Invasive fetal diagnosis and therapy in the third millennium, "From Gamete to Newborn" Conference, Leuven, Belgium, September 2000. (I)
 40. "Fetal surgery: From laboratory to the operating room" Invited speaker, Association of Operating Room Nurses and Technicians (AORN), RI Chapter, November 2000. (R)
 41. "Congenital diaphragmatic hernia: The fetal approach; Animal models" Invited speaker and panelist, Annual Conference on ECMO and neonatal respiratory failure, February 2001, Keystone, CO. (N)
 42. "Fetal surgery: In praise of tunnel vision" Invited speaker and panelist, Pediatric Academic Societies/Society for Pediatric Research Annual Meeting, Baltimore, MD, April 2001. (N)
 43. "The Fetal Medicine Program," "Fetal tracheal occlusion" Speaker and Course director, "The smallest patient: Foundations in fetal medicine," 2nd Frank G. DeLuca, MD, Symposium in Pediatric Surgical Sciences, Brown University, Providence, RI, May 2001. (R)
 44. "The fetal treatment program: Multidisciplinary approach" Invited speaker and panelist, Concepts in Fetal and Neonatal Care, Providence, RI, May 2001. (R)
 45. "Cost-effectiveness of laparoscopy" Invited speaker, Groupe d'Etude Coelioscopie Infantile, Strasbourg (F), June 2001. (I)
 46. "Fetal surgery for neural tube defects" Invited speaker, Annual Neonatology-Pediatric Conference, Taunton, MA, September 2001. (R)
 47. "Fetal Attraction: Foundations in fetal surgery" Invited speaker and panelist, Annual Anesthesia Conference, Newport, RI, September 2001. (R)
 48. "The fetal Treatment Program: Operating the smallest patient" Invited speaker, First Annual Founders' Day Conference, Lifespan, Rhode Island Hospital, October 2001. (R)
 49. "Becoming human" Invited Speaker, "Voyages of Discovery" Faculty Forum, Brown University, October 2001. (R)
 50. "Necrotizing enterocolitis: Surgical interventions" Invited speaker and panelist, "A baby's tummy – Clinical challenges" Conference, Providence, RI, October 2001. (R)

51. "Indications and laparoscopic techniques of splenectomy in children" Invited speaker, Grand Rounds, Department of Surgery, St. Luke's Hospital, New Bedford, MA, December 2001. (R)
52. "Surgery for congenital diaphragmatic hernia" Invited speaker and panelist, "A baby's breath – Clinical challenges" Conference, Providence, RI, November 2002. (R)
53. "Blast injuries: Prehospital treatment" Invited speaker and panelist, 14th Kiwanis Pediatric Trauma Management Seminar, Rhode Island Hospital, November 2002. (R)
54. "Staging and prognosis in twin-to-twin transfusion syndrome" Invited speaker, Division of Pediatric Genetics, New England Medical Center, Boston, November 2002. (R)
55. "Laparoscopy in children" Invited speaker, Grand Rounds, Department of Pediatrics, St. Anne's Hospital, Fall River, MA, January 2003. (R)
56. "Fetal surgery for acardiac twins" Invited speaker, Maternal-Fetal Medicine Conference, New England Medical Center, Boston, May 2003. (R)
57. "Perinatal and surgical management of abdominal wall defects" Invited speaker and panelist, Concepts in Fetal and Neonatal Care, Providence, RI, May 2003. (R)
58. "The shrinking scope: Instruments and indications in fetal surgery," Invited speaker, Perinatal Research Society, Charleston, SC, September 2003. (N)
59. "Fetal surgery for twin-to-twin transfusion syndrome" Invited speaker, Division of Pediatric Surgery, Yale-New Haven Children's Hospital, New Haven, CT, November 2003. (R)
60. "The shrinking scope: Instruments and indications in fetal surgery," Invited speaker, Division of Pediatric Genetics, New England Medical Center, Boston, December 2003. (R)
61. "Blunt abdominal trauma in children: New tools for the new millennium" Speaker and Course Director, 15th Kiwanis Pediatric Trauma Management Seminar, Rhode Island Hospital, November 2003. (R)
62. "Twin-twin situations," Invited speaker, Department of Obstetrics and Gynecology, Albany Medical College, Albany NY, February 2004. (R)
63. "The shrinking scope," Invited speaker and panelist, Issues in Neonatology 2004, Garden City, NY, March 2004. (R)
64. "Honey, I shrunk the scope", "Le foetus et le chirurgien," 2004 Jean Pouliot Telethon for Research into Children's Diseases speaker, Montreal Children's Hospital and Ste-Justine Hospital, Montreal, April 2004. (R)
65. "Through the keyhole: Use and abuse of laparoscopy in children", "Intestinal obstruction in infants," Invited speaker and panelist, Problems in Pediatrics Course, Colby College, Maine, July 2004. (N)
66. "Structure of fetal therapy programs: Brown Medical School," Invited speaker and participant, National Institutes of Health Workshop on Fetal Treatment: Needs assessment and future directions, August 2004, Potomac, MD (N)
67. "Blast injuries in children," Invited speaker, New England Regional Trauma Conference, Burlington, MA, November 2004 (R)
68. "Old Europe and New England: The Twin-to-Twin Transfusion Trial," Invited speaker, Morgan Stanley Children's Hospital, Columbia University, New York, NY, February 2005. (L)
69. "Blast injuries in adults and children," Invited speaker, Eight Annual Trauma Symposium, Falmouth Hospital Department of Emergency Medicine, Falmouth, MA, March 2005. (R)
70. "Operative – and non-operative? – management of appendicitis," Invited speaker, Surgical Grand Rounds, Roger Williams Medical Center, Providence, RI, March 2005. (L)
71. "Blast injuries in children," Invited speaker, Peter D. Smith Trauma Seminar, Rhode Island Hospital, May 2005 (L)
72. "View from the womb: Prenatal diagnosis and intervention, today and tomorrow," Invited speaker, 5th Annual Prune Belly Syndrome Network, Boston, July 2005 (N)
73. "New procedures, unborn patients: The Fetal Surgery Codes," Invited speaker, Meeting of the

- R.I. Chapter of the American Academy of Professional Coders, October 2005 (R)
74. "Pediatric trauma" Invited speaker and panelist, Annual Anesthesia Conference, Newport, RI, October 2005. (R)
 75. "Role of the pediatric surgeon" and "Fetoscopic procedures," Invited speaker and panelist, Educational Session, Annual Conference of the American Pediatric Surgical Association, Hilton Head Island, SC, May 2006 (I)
 76. "Image display in endoscopic surgery," Invited speaker, Conference of the New England Chapter of the Society for Image Display, November 2006, Providence, RI (R)
 77. "Le chirurgien et son image," Invited speaker, 100th Anniversary Ste-Justine Hospital Celebration, Montreal, August 2007 (I)
 78. "Intussusception," Invited speaker and panelist, World Congress of Surgery, Montreal, August 2007 (I)
 79. "Fetal surgery and the twin-to-twin cities," Invited speaker, Grand Rounds, Department of Obstetrics and Gynecology, Abbott Northwestern Hospital, Minneapolis, MN, September 2007 (R)
 80. "Transfusion-free surgery," Invited speaker and panelist, 2nd Annual Regional Blood Management Conference, Society for the Advancement of Blood Management, April 2008, Providence, RI (R)

GRANTS

1. 1994-1995
Belgian National Fund for Scientific Research grant # 3.0122.94
("Fetal surgery through intra-uterine endoscopy")
Principal Researcher
\$ 35,000
2. 1995-1996
Rhode Island Foundation Grant # 5477
("Tracheal obstruction to promote lung growth in the fetal lamb")
Principal Investigator
\$ 5,000
3. 1997-1998
American Lung Association Research Grant # RG-159-N
("The tracheal ligation model of accelerated fetal lung growth")
Principal Investigator
\$ 24,300
renewed 1998-99
\$ 25,000
4. 1998-1999
Lifespan Research Advisory Committee Developmental Grant # DG1142
("Role of the KGF/KGF α axis in normal, hypoplastic and experimentally accelerated fetal lung development")
Collaborator
(Monique E. De Paepe, M.D. - P.I.)
\$ 24,500

5. 2000-2003
Eurofoetus: Endoscopic Access to the Fetoplacental Unit
Biomed 2 Programme of the European Commission-Directorate XII Grant # PL 962383
("Management of Twin-Twin Transfusion Syndrome. An Open multicentre randomized trial for the evaluation of serial amniodrainage vs endoscopic placental laser surgery with amniodrainage.")
Center P.I.
(Yves Ville, M.D. – P.I.)
€250,000
6. 2003-2009
Grant # P20-RR018728 NIH NCRR COBRE
("Biological basis for perinatal transition", James F. Padbury, M.D. – P.I.)
Collaborator
(Monique E. De Paepe, M.D. – P.I. subproject IV :
"Role of Fas-mediated apoptosis in perinatal lung remodeling")
\$ 129,000/year for subproject IV
7. 2007-2009
Exploratory Research Grant # 1R21HL084355-02
National Heart, Lung and Blood Institute/ Office of Rare Diseases
("An in vivo fetal model of twin-to-twin transfusion syndrome")
Principal Investigator
\$ 275,000
Pending
8. 2006-2010
NIH Research Grant RO1
("Apoptosis and perinatal lung development")
Collaborator
(Monique E. De Paepe, M.D. – P.I.)
Pending
9. 2008-2009
Investigational Device Exemption #G080077
Food and Drug Administration
Detachable balloon for fetal tracheal occlusion
Principal Investigator and Sponsor
10. 2008-2012
Orphan Products Development Grant #AN:3056694
Food and Drug Administration – Office of Orphan Products
("Phase 2 Fetal Tracheal Balloon (IDE G080077) Study In Diaphragmatic Hernia")
Principal Investigator
\$827,000
Pending
11. 2009-2012
Orphan Products Development Grant #1R01FD003533-01A1
Food and Drug Administration – Office of Orphan Products

(“Phase 2 study of Goldvalve Balloon TFTO for severe CDH (IDE G080053 sub 3/25/08)”)

Principal Investigator

\$927,203

Pending

12. 2009-2011

ARRA Challenge Grant #AN:3171287

National Institute of Diabetes and Digestive and Kidney Diseases

(“Interactive head-mounted image display in laparoscopic surgery ARRA 07-DK-105”)

Principal Investigator

\$916,180

Pending

UNIVERSITY TEACHING ROLES

- 1996 - 99 Course Director, Biomed 195-196 (Independent Research)
Brown University Undergraduate Curriculum
1996 - 97: Brian D. Johnson
1997 - 98: Mahesh P. Sardesai
1998 - 99: Yvette Wild
2006: Rosalynn Vega
2007: Alicia Carranza
- 2003 - Course Director, BIOL 5720 (Introduction to Fetal Medicine)
Elective Course Seminar (8 1½ lectures, Spring Semester, 1st & 2nd year Medical Students)
- 1996 Faculty sponsor, R.I. Space Grant Summer Scholar
("Monitoring parameters in fetal surgery")
Brian D. Johnson
- 1997 Honors Thesis Director
("A time course assay of the pathophysiology and gene expression of tracheal ligation-associated fetal lung hyperplasia")
Brian D. Johnson
- 1997 Faculty sponsor, Summer Assistantship
("Endoscopic fetal surgery for tracheal obstruction in the fetal lamb")
Mahesh P. Sardesai
- 1997 Faculty Sponsor, Longitudinal Elective in Pediatric Surgery
Hieu Ton-That
- 1998 Faculty sponsor, Undergraduate Teaching and Research Award, Summer Assistantship
Yvette K. Wild
- 1999 Honors Thesis Director
("Pulmonary function in diaphragmatic hernia after short-term fetal tracheal occlusion")
Yvette K. Wild
- 2001 Faculty Mentor, Longitudinal Elective in Pediatric Surgery
Amanda L. Kong
- 2002 Faculty Mentor, Longitudinal Elective in Pediatric Surgery
Rachael Fox
- 2005 - Faculty Mentor, Community Health Clerkship
2005-06: Parag Butala, Jennifer Jenkins, Jeffrey Cheng, Erica Chung
2006-07: Andrew Taitano, Eden Kahle, Michael Kurtz, Jonathan Greer
2007-08: Carmelle Romain
- 2006 Faculty Mentor, EN 193 Entrepreneurship Course, Brown University Surgery Group
Eran Epstein, Wendy Cheng, AJ Issenman, Derek Metzger, Ben Safran, Stavros Tamvakakis

- “The i-Dra System”
2006 - 07 Faculty Mentor, Longitudinal Elective in Pediatric Surgery
Melissa Donovan
2008 Faculty Mentor, Master of Science in Biomedical Engineering thesis
Kenneth Benjamin Morabito
“Reflectance Spectrometry for Determining Blood Flow Direction in Twin-to-Twin
Transfusion Syndrome Pregnancies”

Lectures:

- 1994 - 95 Core clerkship in surgery - Lecture-seminar series (3rd year Medical Students)
“Pediatric Surgery”
1995 - Core clerkship in surgery - Lecture-seminar series (3rd year Medical Students)
“Hepato-biliary problems and tumors of infancy”
10-2003 Speaker, PLME Whole Patient Program, Brown Medical School
“Fetal medicine: Teamwork, evidence and fuzzy logic”
03-2006 Speaker, PLME Whole Patient Program, Brown Medical School
“A stitch in time vs. If it ain’t broke...”
03-2008 Lecturer, Engineering 291-S Seminar (Topics in Translational Research and Technologies)
“Image display in surgery”

HOSPITAL TEACHING ROLES

- 1995 - 97 Faculty Supervisor, Research Fellowship (General Surgery Residency)
Gus Papadakis, M.D.
1996 -97 Faculty Supervisor, Research rotation (Urology Residency)
Leslie Tackett, M.D.
1997 - Director, Multidisciplinary Antenatal Diagnosis And Management (MADAM) Conference
Twice-a-month lectures on fetal medicine (1 hour CME credit)
2002 – 08 Director, Kiwanis Pediatric Trauma Management Seminar, Rhode Island Hospital
One-day conference for EMT, nurses and physicians, November

Lectures

- 10-1994 Speaker, Women & Infants’ Hospital Perinatology Conference
“Necrotizing Enterocolitis”
11-1994 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
“Current status of fetal surgery”
03-1995 Speaker, Grand Rounds, Department of Surgery, Rhode Island Hospital
“Amniotic space: The final frontier”
11-1995 Speaker, Women & Infants’ Perinatology clinicopathologic conference
“Bilateral urinary tract obstruction in the fetus”
02-1996 Speaker, Pediatric Grand Rounds, Memorial Hospital of Rhode Island
“Intestinal obstruction in infants and children”
04-1996 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
“Neonatal abdominal aortic aneurysm”

- 09-1996 Speaker, Grand Rounds, Department of Surgery, Rhode Island Hospital
"Biliary atresia in the 90's"
- 01-1997 Speaker, Seminar Series in the Department of Molecular Pharmacology, Physiology and
Biotechnology at Brown University
"Endoscopic surgery and bronchoscopy in the fetus: What is it and why do we need it?"
- 01-1997 Speaker, Women & Infants' Perinatology clinicopathologic conference
"Congenital cystic adenomatoid malformation of the lung"
- 1997 - Speaker, Pediatric Critical Care Course, Hasbro Children's Hospital
"Surgical emergencies"
- 04-1998 Speaker, Women & Infants' Perinatology clinicopathologic conference
"Suspected tracheoesophageal fistula in a newborn"
- 04-1999 Speaker, Women & Infants' Perinatology clinicopathologic conference
"A fetal renal mass"
- 04-1998 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
"Multidisciplinary management of fetal anomalies"
- 04-1999 Speaker, Basic lecture series, Department of Surgery Residency Program
"Pediatric surgery pathology"
- 07-1999 Speaker, Anesthesiology Grand Rounds, Rhode Island Hospital
"Fetal surgery? Here in Rhode Island? Really?"
- 09-1999 Speaker, Grand Rounds, Department of Obstetrics/Gynecology, Brown University
"Fetal surgery today: All dressed up and nowhere to go"
- 03-2000 Speaker, Grand Rounds, Department of Surgery, Brown University
"2001: An amniotic space odyssey"
- 03-2000 Speaker, Perinatology conference, Division of Neonatology, Women & Infants' Hospital
"Congenital diaphragmatic hernia"
- 04-2000 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
"2001: An amniotic space odyssey"
- 12-2000 Speaker, Grand Rounds, Department of Surgery, Brown University
"New operation for twin fetuses performed in Ocean State"
- 04-2001 Speaker, Grand Rounds, Department of Pediatrics, Pawtucket Memorial Hospital
"Fetal surgery for twin-to-twin transfusion syndrome"
- 08-2001 Speaker, Perinatology conference, Division of Neonatology, Women & Infants' Hospital
"Twin-to-twin transfusion syndrome"
- 11-2001 Speaker, Women & Infants' Perinatology clinicopathologic conference
"An unusual case of neonatal jaundice"
- 03-2002 Speaker, Pediatric Emergency Medicine Rounds
"Pediatric laparoscopy"
- 07-2002 Speaker, APLS/PATLS Course, Hasbro/Rhode Island Hospital
"Pediatric trauma – basic principles"
- 08-2002 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
"Multidisciplinary Antenatal Diagnosis and Management: Fetal Medicine at Brown"
- 11-2002 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
"A 4-year-old child with iron-deficiency anemia"
- 01-2003 Speaker, Project Medical Education, Lifespan/Rhode Island State Legislature
"Pediatric and fetal surgery"
- 01-2004 Speaker, Grand Rounds, Department of Emergency Medicine, Rhode Island Hospital
"Blast injuries"
- 04-2003 Speaker, Grand Rounds, Department of Plastic Surgery, Rhode Island Hospital
"Fetal surgery"

- 03-2003 Speaker, Perinatal Conference, Division of Neonatology, Women & Infants' Hospital
"Update on twin-to-twin transfusion syndrome"
- 07-2003 Speaker, APLS/PATLS Course, Hasbro/Rhode Island Hospital
"Pediatric trauma – basic principles"
- 09-2003 Speaker, Women & Infants' Perinatology clinicopathologic conference
"A premature infant with intestinal obstruction"
- 03-2004 Speaker, Research presentations, Frank DeLuca lectureship (Charles J. Stolar, MD)
"Translational research and clinical application – fetal surgery for CDH"
- 07-2004 Speaker, Women & Infants' Perinatology clinicopathologic conference
"A fetus with an abdominal cyst"
- 07-2004 Speaker, APLS/PATLS Course, Hasbro/Rhode Island Hospital
"Pediatric trauma – basic principles"
- 03-2005 Speaker, Grand Rounds, Department of Surgery, Brown Medical School
"Fetal surgery at Brown: The first 10 years"
- 09-2005 Speaker, Women & Infants' Perinatology clinicopathologic conference
"A newborn with intestinal obstruction"
- 11-2006 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
"Transfusion-free medicine and surgery"
- 01-2007 Speaker, Women & Infants' Perinatology clinicopathologic conference
"A fetus with a cystic lung lesion"
- 02-2007 Speaker, Grand Rounds, Department of Surgery, Brown Medical School
"Laparoscopy 2.0 – Why surgeons should care about their image"
- 07-2008 Speaker and panelist, Schwartz Rounds, Department of Medicine, Rhode Island Hospital
"A patient with VATER syndrome"
- 05-2009 Speaker, Grand Rounds, Department of Pediatrics, Rhode Island Hospital
"Management of congenital diaphragmatic hernia: Not what it used to be (but then again, it never was)"