

**CURRICULUM VITAE**

**Darrell Lorne Cass, M. D.**

**ADDRESS:**

**Office:** Pediatric Surgery  
Texas Children's Hospital  
Clinical Care Center, Suite 650  
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Houston, Texas 77030-2399  
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**SPECIALTY:** Fetal, Neonatal, Pediatric Surgery

**EDUCATION:**

1982-1986 Stanford University, Stanford, California  
AB, Human Biology, 1986

1986-1991 UCLA School of Medicine, Los Angeles, California  
MD, 1991

**POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:**

1988-1989 Pathology Medical Student Fellow, University Hospitals,  
Case Western Reserve University School of Medicine,  
Cleveland, Ohio

1991-1994 Intern and Resident in General Surgery,  
University of California, San Francisco,  
San Francisco, California

1994-1995 Postdoctoral Research Fellow, Fetal Treatment Center,  
University of California, San Francisco

1995-1997 Postdoctoral Research Fellow, Center for Fetal Diagnosis and Treatment and the Children's Institute for Surgical Science, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

1997-1998 Senior Resident in General Surgery, University of California, San Francisco

1998-1999 Chief Resident in General Surgery, University of California, San Francisco

1999-2000 Assistant Chief Resident in Pediatric Surgery, Michael E. DeBakey Department of Surgery Baylor College of Medicine, and the Texas Children's Hospital, Houston Texas

2000-2001 Chief Resident in Pediatric Surgery, Michael E. DeBakey Department of Surgery Baylor College of Medicine, and the Texas Children's Hospital

**FACULTY APPOINTMENTS:**

1994-1995 Clinical Instructor in Surgery (in-training) University of California, San Francisco

1995-1997 Clinical Instructor in Surgery (in-training) The Children's Hospital of Philadelphia

2001-present Assistant Professor, Michael E. DeBakey Department of Surgery, Baylor College of Medicine

2001-present Assistant Professor, Department of Pediatrics, Section of Leukocyte Biology, Baylor College of Medicine

2003-present Co-Director, Texas Center for Fetal Surgery, Texas Children's Hospital, St. Luke's Episcopal Hospital and Baylor College of Medicine

**HOSPITAL APPOINTMENTS:**

2001 Active staff, Texas Children's Hospital, Houston, TX

2001 Active staff, Clear Lake Regional Medical Center, Houston, TX

2001 Active staff, Ben Taub General Hospital, Houston, TX

2002 Active staff, St. Luke's Episcopal Hospital, Houston, TX

2002 Provisional active staff, Women's Hospital of Texas, Houston, TX

2003 Provisional active staff, St. Luke's Community Medical Center-The Woodlands, Woodlands, TX

2004 Provisional active staff, Darnall Army Community Hospital, Fort Hood, TX

**BOARD CERTIFICATION:**

American Board of Surgery, 2000 (certificate #45464)

American Board of Surgery,  
Special Qualification in Pediatric Surgery, 2002 (certificate #869)

**LICENSURE:**

Diplomate, National Board of Medical Examiners, 1992  
California State Medical License, 1993 - 2003  
Texas State Medical License, #L2175, 2001- present  
Pennsylvania State Medical License, 1995-1997

**ADVANCED TRAINING:**

Clinical

Advanced Trauma Life Support, Provider

Basic Laparoscopic Surgery Course, 1994  
University of California, San Francisco

Advanced Laparoscopic Surgery Course, 1997 and 1999  
University of California, San Francisco

Workshop in Surgical Ultrasound, 1998  
University of California, San Francisco

Advanced Pediatric Laparoscopic Surgery Course, 1998  
University of California, San Francisco

Elective in Pediatric Endosurgery, January 3-31, 2000  
Steven Rothenberg, M.D.  
Presbyterian/St. Luke's Hospital

Denver, Colorado

Workshop on the Surgical Treatment of Anorectal Malformations, 2000  
Alberto Pena, M.D., Long Island Jewish Medical Center  
New Hyde Park, New York

### Research

Participant, Gordon Conference on Wound Repair,  
Colby Sawyer College, New Hampshire, July 3-8, 1995

“Advanced Immunocytochemistry and *in situ* Hybridization,”  
Cold Spring Harbor Laboratories, October 11-25, 1996

Young Surgical Investigators Conference, American College of  
Surgeons, March 8-10, 2002

New England Biolabs Molecular Biology Summer Workshop, Smith  
College, Northampton, MA, June 27 – July 10, 2004

### HONORS AND AWARDS:

Valedictorian, Agoura High School, Agoura Hills, California, 1982  
Los Angeles County Medical Association Scholarship, 1982  
Varsity Letterman, Stanford University Baseball Team, 1982-1986  
Borun and Church Scholarships, UCLA School of Medicine, 1986-1991  
Alpha Omega Alpha, UCLA School of Medicine, 1990  
Juvenile Diabetes Foundation Postdoctoral Fellowship Award, 1995  
Best paper, American College of Surgeons, South Texas Chapter, 2000  
Vandenberge-Storz Award for best paper by a young investigator,  
International Fetal Medicine and Surgery Society, 2001  
Lyndon Baines Johnson Research Award, Texas Affiliate, American  
Heart Association, 2003  
Molecular Surgeon Research Achievement Award, Michael E.  
DeBaKey Department of Surgery, Baylor College of Medicine, 2003

### SOCIETY MEMBERSHIPS:

Fellow, American College of Surgeons  
Member, Association for Academic Surgery  
Fellow, Surgical Section, American Academy of Pediatrics  
Member, American Pediatric Surgical Association  
Member, International Fetal Medicine and Surgery Society  
Member, American College of Surgeons, South Texas Chapter  
Member, Houston Surgical Society  
Member, Harris County Medical Society

Member, American Medical Association  
Member, International Pediatric Endosurgery Group  
Member, Wound Healing Society  
Member, Howard C. Nafziger Surgical Society  
American Association for the Advancement of Science  
Juvenile Diabetes Foundation International  
Society for Surgery of the Alimentary Tract

**COMMITTEES:**

1987-1991	Admissions Committee, UCLA School of Medicine
1988-1989	National Task Force on Universal Health Insurance, American Medical Student Association
1994-1995	Residency Selection Committee, UCSF Department of Surgery
2003- present	Bioethics Committee, Texas Children's Hospital.
2004- present	Peer Review Committee, Texas Children's Hospital
2004- present	Trauma Committee, Texas Children's Hospital
2005- present	Utilization Review Committee, Texas Children's Hospital
2005- present	Credentialing Committee, Baylor Med Care, Baylor College of Medicine

## **RESEARCH SUPPORT:**

### **ONGOING RESEARCH SUPPORT**

Beginning Grant-in-Aid	7/1/03-6/30/05	40%
American Heart Association, Texas Affiliate	\$124,000	
“Investigation into Mechanisms of Regenerative Healing in the Fetal Artery Wall”		
Role: PI		
Recipient, Lyndon Baines Johnson Research Award for grant application with most meritorious rating		

### **COMPLETED**

R01 HD 25505 Adzick (PI)	3/1/93-2/28/97	40%
NIH/NICHD	\$1,447,051	
“Fetal Wound Healing: The Role of the Extracellular Matrix”		
Role: Co-Investigator		

Postdoctoral Fellowship Award	7/1/95 - 6/30/97	60%
Juvenile Diabetes Foundation International	\$65,000	
“The Role of Cell Adhesion Molecules in Fetal Wound Repair”		
Role: PI		

Pacific Vascular Research Foundation	7/1/96 - 6/30/97	40%
Research Grant	\$46,362	
“The Fetal Response to Vascular Injury”		
Role: PI		

## **TEACHING**

### **Clinical Fellows Supervised**

- Michael Helmrath, M.D., 2001-2002
- Richard Glick, M.D., 2001-2003
- Saad Al-Mulhim, M.D., 2001-2003
- Jateen Patel, M.D., 2001-2003
- Mary Barnes, M.D., 2002-2004
- Stephen Muehlstedt, M.D., 2003-present
- Naomi Golonka, M.D., 2003-present
- Doug Miniati, M.D., 2004-present

Monthly Lecturer to Pediatric Residents (Topics include: Hirschprung’s Disease, Pediatric Lung Lesions, Abdominal Pain, Fetal Surgery, Pediatric Trauma, Chest Trauma in Children, Newborn Surgical Emergencies, Biliary Tract Disorders in Children, Surgical Pancreatic Disorders in Children)

Medical Student Supervisor and Lecturer during Core Surgical Rotation, 2001- present

## **MILITARY**

MAJOR, Medical Corps, United States Army Reserves  
Service during Operation Noble Eagle, 6/03-9/03

## **PUBLICATIONS:**

### *Original Papers:*

1. Gauderer MW, Cass DL: Meconium per vaginam secondary to ileal atresia and meconium peritonitis. *Pediatr Surg Int* 7:64-66, 1992
2. Yamaguchi T, Mullen Y, Watanabe Y, Nomura D, Cass D, Brunnicardi C: Isolation and function of islets from young adult pig pancreas. *Trans Proc* 24:1010-1012, 1992
3. Huang XZ, Wu JF, Cass D, Erle D, Corry D, Young SG, Farese RV, Sheppard D. Inactivation of the integrin  $\alpha 6$  subunit gene reveals a role of epithelial integrins in regulating inflammation in the lungs and skin. *J Cell Biol* 133:921-928, 1996
4. Cass DL, Adzick NS: Fetal wound repair renaissance. *Oral Maxillofacial Surg Clin* 8:535-546, 1996
5. Cass DL, Bullard KM, Sylvester KG, Yang EY, Sheppard D, Herlyn M, Adzick NS: Epithelial integrin expression is rapidly upregulated in human fetal wound repair. *Surg Forum* 47:765-767, 1996
6. Bullard KM, Cass DL, Adzick NS, Banda MJ: TGF $\beta$ -1 decreases interstitial collagenase in healing human fetal skin. *Surg Forum* 47:762-765, 1996
7. Cass DL, Bullard KM, Sylvester KG, Yang EY, Longaker MT, Adzick NS. Wound size and gestational age modulate scar formation in fetal wound repair. *J Pediatr Surg* 32:411-415, 1997
8. Cass DL, Meuli M, Adzick NS: Scar wars: Implications of fetal wound healing for the pediatric burn patient. *Pediatr Surg Int* 12:484-489, 1997
9. Cass DL, Crombleholme TM, Howell LJ, Stafford PG, Adzick NS: Cystic lung lesions with systemic arterial blood supply - A hybrid of congenital cystic adenomatoid malformation and bronchopulmonary sequestration. *J Pediatr Surg* 32:986-990, 1997
10. Cass DL, Sylvester KG, Yang EY, Crombleholme TM, Adzick NS: Myofibroblast association with scar formation and their absence in scarless fetal wound repair. *J Pediatr Surg* 32:1017-1021, 1997

11. Cass DL, Yang EY, Liechty KW, Quinn TM, Crombleholme TM, Flake AW, Adzick NS: Increased cell proliferation and decreased apoptosis in congenital cystic adenomatoid malformation: Insights into pathogenesis. *Surg Forum* 48:659-661, 1997
12. Yang EY, Cass DL, Sylvester KG, Flake AW, Wilson JM, Adzick NS: Liver-directed fetal gene therapy using recombinant adenoviral vectors: Successful readministration in mid-gestation sheep fetuses. *Surg Forum* 48:464-467, 1997
13. Bullard KM, Cass DL, Adzick NS, Banda MJ: TGF $\beta$ 1 decreases interstitial collagenase in healing human fetal skin. *J Pediatr Surg* 32:1023-1027, 1997
14. Sylvester KG, Yang EY, Cass DL, Crombleholme TM, Adzick NS: Fetoscopic gene therapy of congenital lung disease. *J Pediatr Surg* 32:964-969, 1997
15. Stelnicki EJ, Bullard KM, Harrison MR, Cass DL, Adzick NS: A new *in vivo* model for the study of fetal wound healing. *Ann Plast Surg* 39:374-380, 1997
16. Liechty KW, Crombleholme TM, Sylvester KG, Lovvorn HN, Kitano YL, Cass DL, Adzick NS: Differential expression of IL-6 by fetal fibroblasts. *Surg Forum* 48:707-709, 1997
17. Kung SH, Hagstrom JN, Cass D, Tai SJ, Lin HF, Stafford DW, High KA: Human Factor IX corrects the bleeding diathesis of mice with Hemophilia B. *Blood* 91:784-790, 1998
18. Cass DL, Bullard KM, Sylvester KG, Yang EY, Sheppard D, Herlyn M, Adzick NS: Epidermal integrin expression is upregulated rapidly in human fetal wound repair. *J Pediatr Surg* 33:312-316, 1998
19. Cass DL, Quinn TM, Yang EY, Liechty KW, Crombleholme TM, Flake AW, Adzick NS: Increased cell proliferation and decreased apoptosis characterizes congenital cystic adenomatoid malformation of the lung. *J Pediatr Surg* 33:1043-1047, 1998
20. Lovvorn HN, Cass DL, Sylvester KG, Crombleholme TM, Adzick NS, Savani RC: Hyaluronan receptor expression is increased by fetal fibroblasts in excisional wounds and correlates with scarring. *J Pediatr Surg* 33:1062-1070, 1998
21. Stelnicki EJ, Arbeit J, Cass DL, Saner C, Harrison M, Largman C: Modulation of the human homeobox genes *PRX-2* and *HoxB13* in scarless fetal wounds. *J Invest Dermat* 111:57-63, 1998
22. Liechty KW, Crombleholme TM, Cass DL, Martin B, Adzick NS: Diminished Interleukin-8 (IL-8) production in the fetal wound healing response. *J Surg Res* 77:80-84, 1998
23. Yang EY, Cass DL, Sylvester KG, Flake AW, Wilson JM, Adzick NS: BAPS Prize-1997. Fetal gene therapy: Efficacy, toxicity, and immunologic effects of early gestation recombinant adenovirus. *J Pediatr Surg* 34:235-241, 1999

24. Liechty KW, Quinn TM, Cass DL, Crombleholme TM, Flake AW, Adzick NS: Elevated PDGF-B in congenital cystic adenomatoid malformations (CCAMs) requiring fetal resection. *J Pediatr Surg* 34:805-810, 1999
25. Cass DL, Lovvorn HN, Yang EY, Sylvester KG, Adzick NS: Regenerative capabilities of the fetal vascular wall. *Surg Forum* 50:468-469, 1999
26. Golshani SD, Lee C, Cass D, Thomas A, Mandpe A: Microvascular “supercharged” cervical colon: Minimizing ischemia in esophageal reconstruction. *Ann Plast Surg* 43:533-538, 1999
27. Lovvorn HN, Savani RC, Ruchelli E, Cass DL, Adzick NS: Serum hyaluronan and its association with unfavorable histology and aggressiveness of heterotransplanted Wilms’ tumor. *J Pediatr Surg* 35:1070-1078, 2000
28. Cass DL, Brandt ML, Patel DL, Nuchtern JG, Minifee PK, Wesson DE: Peritoneal drainage as definitive treatment for neonates with isolated intestinal perforation. *J Pediatr Surg* 35:1531-1536, 2000
29. Cass DL, Hawkins E, Brandt ML, Chintagumpala M, Bloss RS, Milewicz AL, Minifee PK, Wesson DE, Nuchtern JG: Surgery for ovarian masses in infants, children and adolescents: 102 consecutive patients over 15 years. *J Pediatr Surg* 36:693-699, 2001
30. Cass DL, Wesson DE: Advances in fetal and neonatal surgery for gastrointestinal anomalies and disease. *Clin Perinat* 29:1-22, 2002
31. Cass DL: Fetal surgery: applications to increase survival rates. *Neonatal News.Net* 3: 1-2, 2002
32. Szigeti K, Wong LC, Perng CL, Saifi GM, Eldin K, Adesina AM, Cass DL, Hirano M, Lupski JR, Scaglia F: MNGIE with lack of skeletal muscle involvement and a novel TP slice-site mutation. *J Med Genetics* 41:125-129, 2004
33. Glick RD, Hicks MJ, Nuchtern JG, Wesson DE, Olutoye OO, Cass DL: Renal tumors in infants less than 6 months of age. *J Pediatr Surg* 39:522-525, 2004
34. Kenton AB, O’Donovan D, Cass DL, Helmrath MA, Washburn K, Weihe EK, Brandt ML: Severe thrombocytopenia predicts outcome in neonates with necrotizing enterocolitis. *J Perinatol* 25:14-20, 2005
35. Kenton AB, Hegemier S, Smith EO, O’Donovan DJ, Brandt ML, Cass DL, Helmrath MA, Washburn K, Weihe EK, Fernandes CJ: Platelet transfusions in infants with necrotizing enterocolitis do not lower mortality but may increase morbidity. *J Perinatol* 25:173-177, 2005
36. Cass DL: Ovarian torsion. *Semin Pediatr Surg* 14:86-92, 2005

37. Barnes MJ, Kollenberg SJ, Brandt ML, Wesson DE, Nuchtern JG, Minifee PK, Cass DL. Surgery for peptic ulcer disease in children in the post-H2 blocker era. *J Pediatr Surg* 2005 May;40(5):850-4.
38. Cass DL: Fetal surgery for congenital diaphragmatic hernia: North American Experience. *Semin Perinatol* 29: 104-111, 2005
39. Miniati DN, Chintagumpala M, Dishop M, Langston C, Olutoye OO, Nuchtern JG, Cass DL. Prenatal diagnosis and outcome of children with pleuropulmonary blastoma. *J Pediatr Surg* (submitted)
40. Ambardar S, Cass DL, Barnes MJ, Helmrath MA, Pinsky JR, Brandt ML: Pilonidal disease in adolescents. (submitted)
41. Olutoye OO, Zhu X, Cass DL, Smith CW: Impaired neutrophil recruitment by fetal endothelial cells: Implications in scarless fetal wound healing. (submitted)

*Chapters:*

1. Cass DL, Adzick NS: Congenital cystic adenomatoid malformation. *In: **Ultrasound and Fetal Therapy***, Rodeck C, Evans M (eds.), Parthenon Press, New York, NY, 2000, pp. 49-60
2. Cass DL, Adzick NS: Fetal wound healing implications. *In: **Pediatric Oculoplastic Surgery***, Katowitz JA (ed), Springer-Verlag, New York, NY, 2000, pp. 31-42
3. Cass DL, Nuchtern J: Vascular access. *In: **Pediatric Dialysis***, Warady BA, Alexander SR, Fine RN, Schaefer F (eds), Kluwer Academic Publishers, Great Britain, 2004, pp. 65-82
4. Cass DL: Fetal Surgery. *In: Surgery: Scientific **Principles and Practice***, 4<sup>th</sup> ed. Mulholland M, Lillemoe K, Doherty GM, Maeir A, Upchurch (eds), Lippincott, Philadelphia, 2005

*Book Reviews:*

1. Cass DL, Adzick NS. Book Review: **Rob and Smith's Operative Surgery Series: Pediatric Surgery**, 5th ed., *Ann Surg* 223:441-442,1996

**ABSTRACTS:**

1. Stelnicki EJ, Holmes D, Klein P, Harrison MR, Bullard KM, Cass DL, Largman C: The expression of two new homeobox genes FDX-1 and SDX-1, which are selectively expressed in fetal fibroblasts, is upregulated during fetal wound healing. *Plastic Surgery Education Foundation*, St. Louis, Missouri, June 1, 1996

2. Cass DL, Bullard KM, Sylvester KG, Yang EY, Longaker MT, Adzick NS: Wound size and gestational age modulate scar formation in fetal wound repair. XLIII Annual International Congress, British Association of Pediatric Surgery, St. Helier, Jersey, Channel Islands, UK, July 16-19, 1996
3. Cass DL, Bullard KM, Sylvester KG, Yang EY, Sheppard D, Herlyn M, Adzick NS: Epithelial integrin expression is rapidly upregulated in human fetal wound repair. 82nd Annual Clinical Congress of the American College of Surgeons, San Francisco, California, October 6-11, 1996
4. Bullard KM, Cass DL, Adzick NS, Banda MJ: TGF- $\beta$ 1 decreases interstitial collagenase in healing human fetal skin. 82<sup>nd</sup> Annual Clinical Congress, American College of Surgeons, San Francisco, California, October 6-11, 1996
5. Cass DL, Bullard KM, Sylvester KG, Yang EY, Adzick NS: Integrin expression is upregulated rapidly in human fetal repair. 17<sup>th</sup> Annual Pediatric Surgical Resident's Conference, St. Christopher's Hospital for Children, Philadelphia, Pennsylvania, October 18-20, 1996
6. Bullard KM, Cass DL, Adzick NS, Banda MJ: TGF- $\beta$ 1 decreases interstitial collagenase in healing human fetal skin. 17<sup>th</sup> Annual Pediatric Surgical Resident's Conference, St. Christopher's Hospital for Children, Philadelphia, Pennsylvania, October 18-20, 1996
7. Cass DL, Sylvester KG, Yang EY, Crombleholme TM, Adzick NS: Myofibroblast association with scar formation and their absence in scarless fetal wound repair. 48<sup>th</sup> Annual Meeting, Surgical Section, American Academy of Pediatrics, Boston, Massachusetts, October 26-30, 1996
8. Cass DL, Crombleholme TM, Howell LJ, Stafford PG, Adzick NS: Cystic lung lesions with systemic arterial blood supply - A hybrid of congenital cystic adenomatoid malformation and bronchopulmonary sequestration. 48<sup>th</sup> Annual Meeting, Surgical Section, American Academy of Pediatrics, Boston, Massachusetts, October 26-30, 1996
9. Bullard KM, Cass DL, Adzick NS, Banda MJ: TGF- $\beta$ 1 decreases interstitial collagenase in healing human fetal skin. 48<sup>th</sup> Annual Meeting, Surgical Section, Academy of Pediatrics, Boston, Massachusetts, October 26-30, 1996
10. Sylvester KG, Yang EY, Cass DL, Crombleholme TM, Adzick NS: Fetoscopic gene therapy of congenital lung disease. 48<sup>th</sup> Annual Meeting, Surgical Section, Academy of Pediatrics, Boston, Massachusetts, October 26-30, 1996
11. Yang EY, Cass DL, Sylvester KG, Flake AW, Wilson JM, Adzick NS: Immunologic anergy to early gestational administration of recombinant adenovirus. Poster presentation, Keystone Symposia, Keystone, Colorado, April, 1997

12. Cass DL, Bullard KM, Sylvester KG, Yang EY, Sheppard D, Herlyn M, Adzick NS: Epidermal integrin expression is upregulated rapidly in human fetal wound repair. 28th Annual Meeting, American Pediatric Surgical Association, Naples, Florida, May 17-20, 1997
13. Yang EY, Cass DL, Sylvester KG, Flake AW, Wilson JM, Adzick NS: Efficacy and toxicity of adenoviral gene therapy vectors in fetal sheep lung. Poster presentation, 28th Annual Meeting, American Pediatric Surgical Association, Naples, Florida, May 17-20, 1997
14. Cass DL, Crombleholme TM, Howell LJ, Stafford PG, Adzick NS: Cystic lung lesions with systemic arterial blood supply - A hybrid of congenital cystic adenomatoid malformation and bronchopulmonary sequestration. 16th International Fetal Medicine and Surgery Society, Anchorage, Alaska, June 1-5, 1997
15. Cass DL, Bullard KM, Sylvester KG, Yang EY, Sheppard D, Herlyn M, Adzick NS: Early upregulation of keratinocyte integrins and rapid reepithelialization in human fetal wound repair. 16th International Fetal Medicine and Surgery Society, Anchorage, Alaska, June 1-5, 1997
16. Cass DL, Quinn TM, Yang EY, Liechty KW, Crombleholme TM, Flake AW, Adzick NS: Increased cell proliferation and decreased apoptosis in congenital cystic adenomatoid malformation: Insights into pathogenesis. 83rd Annual Clinical Congress of the American College of Surgeons, Chicago, Illinois, October 12-17, 1997
17. Yang EY, Cass DL, Sylvester KG, Flake AW, Wilson JM, Adzick NS: Liver-directed fetal gene therapy using recombinant adenoviral vectors: Successful readministration in mid-gestation sheep fetuses. 83rd Annual Clinical Congress, American College of Surgeons, Chicago, Illinois, October 12-17, 1997
18. Liechty KW, Crombleholme TM, Sylvester KG, Lovvorn HN, Kitano YL, Cass DL, Adzick NS: Differential expression of IL-6 by fetal fibroblasts. 83rd Annual Clinical Congress, American College of Surgeons, Chicago, Illinois, October 12-17, 1997
19. Cass DL, Quinn TM, Yang EY, Liechty KW, Crombleholme TM, Flake AW, Adzick NS: Increased cell proliferation and decreased apoptosis characterizes congenital cystic adenomatoid malformation of the lung. 49<sup>th</sup> Annual Meeting, Surgical Section, American Academy of Pediatrics, New Orleans, LA, November 1-5, 1997
20. Liechty KW, Crombleholme TM, Sylvester KG, Lovvorn HN, Kitano Y, Cass DL, Adzick NS: Differential IL-6 production by fetal vs. adult fibroblasts. Poster presentation, 49<sup>th</sup> Annual Meeting, Surgical Section, American Academy of Pediatrics, New Orleans, Louisiana, November 1-5, 1997
21. Lovvorn HN, Cass DL, Sylvester KG, Crombleholme TM, Adzick NS, Savani RC: Hyaluronan receptor expression is increased by fetal fibroblasts in excisional wounds and correlates with scarring. 49<sup>th</sup> Annual Meeting, Surgical Section, American Academy of Pediatrics, New Orleans, Louisiana, November 1-5, 1997

22. Liechty KW, Crombleholme TM, Sylvester KG, Lovvorn HN, Kitano YL, Cass DL, Adzick NS: Diminished IL-6 production by fetal vs. adult fibroblasts in response to PDGF stimulation. The Association for Academic Surgery, Dallas, Texas, November 8, 1997
23. Yang EY, Cass DL, Sylvester KG, Flake AW, Wilson JM, Adzick NS: BAPS Prize-1997. Fetal gene therapy: Efficacy, toxicity, and immunologic effects of early gestation recombinant adenovirus. 45th Annual International Congress of the British Association of Pediatric Surgeons, Bristol, England, July 21-24, 1998
24. Liechty KW, Quinn TM, Cass DL, Crombleholme TM, Flake AW, Adzick NS: Elevated PDGF-B in congenital cystic adenomatoid malformations (CCAMs) requiring fetal resection. 50<sup>th</sup> Annual Meeting, Surgical Section, American Academy of Pediatrics, San Francisco, California, October 19, 1998
25. Crombleholme TM, Liechty KW, Cass DL, Johnson MP, Flake AW, Howell LJ, Adzick NS: Natural history of fetal cystic adenomatoid malformation of the lung: Biologic behavior in hydropic CCAMs. International Fetal Medicine and Surgery Society, Carlisle, UK, May 21, 1999
26. Cass DL, Lovvorn HN, Yang EY, Sylvester KG, Adzick NS: Regenerative capabilities of the fetal vascular wall. 85th Annual Clinical Congress of the American College of Surgeons, San Francisco, California, October 11-15, 1999
27. Cass DL, Brandt ML, Patel DL, Nuchtern JG, Minifee PK, Wesson DE: Peritoneal drainage as definitive treatment for isolated intestinal perforation in neonates less than 1000 grams. Annual Meeting, American College of Surgeons, South Texas Chapter, San Antonio, Texas, February 18-19, 2000
28. Cass DL, Brandt ML, Patel DL, Nuchtern JG, Minifee PK, Wesson DE: Drainage alone in newborn gastrointestinal perforation. 33<sup>rd</sup> Annual Meeting, Pacific Association of Pediatric Surgeons, Las Vegas, Nevada, May 15-19, 2000
29. Cass DL, Hawkins E, Brandt ML, Chintagumpala M, Bloss RS, Milewicz AL, Minifee PK, Wesson DE, Nuchtern JG: Surgery for ovarian masses in infants, children and adolescents: 102 consecutive patients over 15 years. 33<sup>rd</sup> Annual Meeting, Canadian Association of Pediatric Surgeons, Montebello (Quebec), Canada, September 15-18, 2000
30. Cass DL, Hawkins E, Brandt ML, Chintagumpala M, Bloss RS, Milewicz AL, Minifee PK, Wesson DE, Nuchtern JG: Surgery for ovarian masses in infants, children and adolescents: 102 consecutive patients over 15 years. Annual Meeting, American College of Surgeons, South Texas Chapter, San Antonio, Texas, March 2-3, 2001
31. Cass DL, Lovvorn HN, Yang EY, Sylvester KG, Adzick NS: Regenerative capabilities of the injured fetal artery. 20<sup>th</sup> International Fetal Medicine and Surgery Society, Kruger, South Africa, October 1-5, 2001.

32. Cass DL, Olutoye OO, Adam K, Coleman B, Hubbard A, Adzick NS: Prenatal diagnosis and management of congenital lobar emphysema. 21<sup>st</sup> International Fetal Medicine and Surgery Society, Quebec, Canada, September 1-4, 2002
33. Cass DL, Olutoye OO, Adam K, Brandt ML: Successful use of ‘minimally invasive repair’ of gastroschisis. 20<sup>th</sup> International Fetal Medicine and Surgery Society, Kruger, South Africa, October 1-5, 2001
34. Ambardar S, Cass DL, Barnes MJ, Helmraht MA, Pinsky JR, Brandt ML: Pilonidal disease in adolescents. Annual Meeting, American College of Surgeons, South Texas Chapter, Houston, Texas, March 7-8, 2003
35. Olutoye OO, Zhu X, Cass DL, Smith CW: Age-dependent variations in endothelial cell function. 22<sup>nd</sup> Annual Meeting, International Fetal Medicine and Surgery Society, Zermatt, Switzerland, April 27-30, 2003
36. Glick RD, Hicks MJ, Nuchtern JG, Wesson DE, Olutoye OO, Cass DL: Renal tumors in infants less than 6 months of age. Poster Presentation, 34<sup>th</sup> Annual Meeting of the American Pediatric Surgical Association, Fort Lauderdale, FL, May 25-28, 2003
37. Ambardar S, Cass DL, Barnes MJ, Helmraht MA, Pinsky JR, Brandt ML: Pilonidal disease in adolescents. 34<sup>th</sup> Annual Meeting of the American Pediatric Surgical Association, Fort Lauderdale, FL, May 25-28, 2003
38. Cass DL, Lovvorn HN, Yang EY, Sylvester KG, Adzick NS: Regenerative capabilities of the fetal vascular wall. 65<sup>th</sup> Annual Meeting of the Society of University Surgeons, St. Louis, MO, February 13, 2004
39. Cass DL, Cassady CI, Wilkins I, O’Day MP, Coverler L, Adam K, Adzick NS, Olutoye OO. Prenatal diagnosis and outcome of fetuses with giant neck masses. 23<sup>rd</sup> International Fetal Medicine and Surgery Society, Charleston, SC, March 14-17, 2004
40. Barnes MJ, Kollenberg SJ, Brandt ML, Wesson DE, Nuchtern JG, Minifie PK, Cass DL. Surgery for peptic ulcer disease in children in the post-H2 blocker era. Annual Meeting, American College of Surgeons, South Texas Chapter, Houston, Texas, March 31- April 1, 2004
41. Kenton AB, O’Donovan D, Cass DL, Helmraht MA, Washburn K, Weihe E, Brandt ML: Severe thrombocytopenia predicts outcome in neonates with necrotizing enterocolitis. Pediatric Academic Societies’ Annual Meeting, May 1-4, 2004, San Francisco, CA
42. Zhu X, Cass DL, Smith CW, Olutoye OO: Lower expression of P-selectin may modulate the fetal inflammatory response. 14<sup>th</sup> Annual Meeting of the Wound Healing Society, Atlanta, GA, May 23-26, 2004

43. Cass DL, Cassady C, O'Day M, Coveler L, Olutoye OO. Prenatal diagnosis and outcome of fetuses with giant neck masses. Michael E. DeBakey International Surgical Society, XVth Congress, May 15-17, 2004
44. Olutoye OO, Zhu X, Cass DL, Smith CW: Impaired neutrophil recruitment by fetal endothelial cells: implications in scarless fetal wound healing. 35<sup>th</sup> Annual Meeting of the American Pediatric Surgical Association, May 27-31, 2004
45. Barnes MJ, Kollenberg SJ, Brandt ML, Wesson DE, Nuchtern JG, Miniffee PK, Cass DL. Surgery for peptic ulcer disease in children in the post-H2 blocker era. Canadian Association of Paediatric Surgeons, September 30-October 3, 2004, Winnipeg, Manitoba, CANADA
46. Brandt ML, Cass DL. Spontaneous resolution of prenatal ovarian torsion. Canadian Association of Paediatric Surgeons, September 30-October 3, 2004, Winnipeg, Manitoba, CANADA
47. Cass DL, Cassady CI, O'Day MP, Coveler LA, Adzick NS, Wesson DE, Olutoye OO: Predictors of airway obstruction and outcome of fetuses with giant neck masses. American Academy of Pediatrics, October 8-10, 2004, San Francisco, CA
48. Muehlstedt SG, Hicks MJ, Brandt MJ, Washburn KK, Wesson DE, Nuchtern JG, Cass DL. Incidence of viable ovarian tissue after resection for ovarian torsion in children. American Academy of Pediatrics, October 8-10, 2004, San Francisco, CA
49. Cass DL, Cassady CI, O'Day MP, Coveler LA, Wesson DE, Olutoye OO: Predictors of airway obstruction and outcome of fetuses with giant neck masses. American College of Surgeons, South Texas Chapter, Houston, TX, March 11-12, 2005
50. Miniati DN, Chintagumpala M, Langston C, Olutoye OO, Nuchtern JG, Cass DL. Prenatal diagnosis and outcome of children with pleuropulmonary blastoma. American College of Surgeons, South Texas Chapter, Houston, TX, March 11-12, 2005
51. Muehlstedt SG, Hicks MJ, Washburn KK, Brandt MJ, Wesson DE, Helmrath MA, Nuchtern JG, Cass DL. Management of ovarian torsion in children: Clinicopathologic Correlation. American College of Surgeons, South Texas Chapter, Houston, TX, March 11-12, 2005
52. Golonka NR, Kaplan SL, Mason EO, Olutoye OO, Wesson DE, Cass DL, Nuchtern JG. Operative drainage shortens length of stay for children with staphylococcal skin abscesses. American College of Surgeons, South Texas Chapter, Houston, TX, March 11-12, 2005
53. Miniati DN, Chintagumpala M, Langston C, Olutoye OO, Nuchtern JG, Cass DL. Prenatal diagnosis and outcome of children with pleuropulmonary blastoma. American Pediatric Surgery Association. May, 2005, Phoenix, AR

**INVITED LECTURES:**

1. "Scarless fetal wound repair." Grand Rounds, UCSF Department of Surgery, San Francisco, California, May 14, 1998
2. "Perineal one stage operative pull-through (POOP) procedure for Hirschsprung's Disease." Grand Rounds, UCSF Department of Surgery, San Francisco, California, November 11, 1998
3. "Gastroesophageal reflux disease: Current diagnosis and management." Grand Rounds, UCSF Department of Surgery, San Francisco, California, January 21, 1999
4. "Hirschsprung's disease." Grand Rounds, Department of Surgery, Ben Taub General Hospital and the Baylor College of Medicine, Houston, Texas, April 19, 2000
5. "Fetal surgery for congenital malformations." Grand Rounds, Department of Surgery, Ben Taub General Hospital and the Baylor College of Medicine, Houston, Texas, May 31, 2000
6. "Hirschsprung's disease and the newborn," Grand Rounds, Department of Pediatrics, Division of Neonatology, Baylor College of Medicine, Texas Children's Hospital, Houston, Texas, June 7, 2000
7. "Ovarian masses in children," Pediatric residents conference, Texas Children's Hospital, Houston, Texas, November 8, 2000
8. "Biliary tract disorders in childhood," Pediatric residents conference, Texas Children's Hospital, Houston, Texas, April 11, 2001
9. "CPC: A case of necrotizing enterocolitis and isolated intestinal perforation," Grand Rounds, Department of Pediatrics, Baylor College of Medicine, Texas Children's Hospital, October 26, 2001
10. "Update on fetal surgery." 25<sup>th</sup> Annual Baylor Perinatal Symposium, Houston, TX, November 2, 2001
11. "Update on fetal surgery," Grand Rounds, Department of Pediatrics, Division of Neonatology, Baylor College of Medicine, Texas Children's Hospital, Houston, Texas, February 1, 2002
12. "Fetal Surgery," Houston Area Association of Neonatal Nurses, Annual Meeting, Houston, Texas, April 4, 2002
13. "Wound repair: An Overview of Adult and Fetal Repair," Grand Rounds, Michael E. DeBakey Department of Surgery, Baylor College of Medicine, April 10, 2002

14. "Surgery on the Fetus," General Surgery Grand Rounds, St. Luke's Episcopal Hospital, December 10, 2002
15. "Fetal Surgery for Congenital Structural Anomalies." Pediatrics Grand Rounds, Texas Children's Hospital and the Baylor College of Medicine, March 14, 2003
16. "Advances in Fetal Surgery." Obstetrics and Gynecology Grand Rounds, Baylor College of Medicine, April 30, 2003
17. "Update on Fetal Surgery." 27<sup>th</sup> Annual Baylor Perinatal Symposium, Houston, TX, October 24, 2003
18. "Choosing a Job: The Academic Perspective." American Academy of Pediatrics-- Pediatric Surgery Residents' Conference, October 8, 2004, San Francisco, CA
19. "Update on Fetal Surgery." Grand Rounds, Internal Medicine Service, St. Luke's Episcopal Hospital, November 15, 2004
20. "Fetal Surgery: Where do we stand and where are we headed?" Pediatric Grand Rounds, University of Texas Health Sciences Center San Antonio, San Antonio, TX January 14, 2005
21. "Update on Fetal Surgery- 2005" Texas Association of Neonatal Nurse Practitioners, Houston, TX, April 23, 2005

**PRESENTATIONS (NATIONAL OR INTERNATIONAL MEETINGS):**

1. "Wound size and gestational age modulate scar formation in fetal wound repair." XLIII Annual International Congress, **British Association of Pediatric Surgery**, St. Helier, Jersey, Channel Islands, UK, July 16-19, 1996
2. "Epithelial integrin expression is rapidly upregulated in human fetal wound repair." 82nd Annual **Clinical Congress of the American College of Surgeons**, San Francisco, California, October 6-11, 1996
3. "Integrin expression is upregulated rapidly in human fetal repair." Seventeenth Annual **Pediatric Surgical Resident's Conference**, St. Christopher's Hospital for Children, Philadelphia, Pennsylvania, October 18-20, 1996
4. "Myofibroblast association with scar formation and their absence in scarless fetal wound repair." 48<sup>th</sup> Annual Meeting, Surgical Section, **American Academy of Pediatrics**, Boston, Massachusetts, October 26-30, 1996
5. "Cystic lung lesions with systemic arterial blood supply - A hybrid of congenital cystic adenomatoid malformation and bronchopulmonary sequestration." 48<sup>th</sup> Annual

Meeting, Surgical Section, **American Academy of Pediatrics**, Boston, Massachusetts, October 26-30, 1996

6. "Epidermal integrin expression is upregulated rapidly in human fetal wound repair." 28th Annual Meeting, **American Pediatric Surgical Association**, Naples, Florida, May 17-20, 1997
7. "Cystic lung lesions with systemic arterial blood supply - A hybrid of congenital cystic adenomatoid malformation and bronchopulmonary sequestration." 16th **International Fetal Medicine and Surgery Society**, Anchorage, Alaska, June 1-5, 1997
8. "Early upregulation of keratinocyte integrins and rapid reepithelialization in human fetal wound repair." 16th **International Fetal Medicine and Surgery Society**, Anchorage, Alaska, June 1-5, 1997
9. "Increased cell proliferation and decreased apoptosis in congenital cystic adenomatoid malformation: Insights into pathogenesis." 83rd Annual **Clinical Congress of the American College of Surgeons**, Chicago, Illinois, October 12-17, 1997
10. "Increased cell proliferation and decreased apoptosis characterizes congenital cystic adenomatoid malformation of the lung." 49<sup>th</sup> Annual Meeting, Surgical Section, **American Academy of Pediatrics**, New Orleans, LA, November 1-5, 1997
11. "Increased cell proliferation and decreased apoptosis in congenital cystic adenomatoid malformation." 11<sup>th</sup> Annual **Resident Research Day, University of California, San Francisco**; San Francisco, California, February 27, 1998
12. "Regenerative capabilities of the fetal vascular wall." 85th Annual **Clinical Congress of the American College of Surgeons**, San Francisco, California, October 11-15, 1999
13. "Peritoneal drainage as definitive treatment for isolated intestinal perforation in neonates less than 1000 grams." Annual Meeting, **American College of Surgeons, South Texas Chapter**, San Antonio, Texas, February 18-19, 2000 (Winner, "Best Paper" in Resident Competition)
14. "Drainage alone in newborn gastrointestinal perforation." 33<sup>rd</sup> Annual Meeting, **Pacific Association of Pediatric Surgeons**, Las Vegas, Nevada, May 15-19, 2000
15. "Surgery for ovarian masses in infants, children and adolescents: 102 consecutive patients over 15 years." 33<sup>rd</sup> Annual Meeting, **Canadian Association of Pediatric Surgeons**, Montebello (Quebec), Canada, September 15-18, 2000
16. "Pancreas mass in a 3 year-old boy." 21<sup>st</sup> Annual **Pediatric Surgery Resident's Conference**, Chicago, Illinois, October 27, 2000
17. "Surgery for ovarian masses in infants, children and adolescents: 102 consecutive patients over 15 years." **American College of Surgeons, South Texas Chapter**, San Antonio, TX, March 2-3, 2001

18. “Regenerative capabilities of the injured fetal artery.” 20<sup>th</sup> **International Fetal Medicine and Surgery Society**, Kruger, South Africa, October 1-5, 2001.  
- Winner, Vandenberg-Storz Award for best paper by a young investigator.
19. “Successful use of ‘minimally invasive repair’ of gastroschisis.” 20<sup>th</sup> **International Fetal Medicine and Surgery Society**, Kruger, South Africa, October 1-5, 2001
20. “Prenatal diagnosis and management of congenital lobar emphysema.” 21<sup>st</sup> **International Fetal Medicine and Surgery Society**, Quebec, Canada, September 1-4, 2002
21. “Regenerative capabilities of the fetal vascular wall.” 65<sup>th</sup> Annual Meeting of the **Society of University Surgeons**, St. Louis, MO, February 13, 2004
22. “Prenatal diagnosis and outcome of fetuses with giant neck masses.” 23<sup>rd</sup> **International Fetal Medicine and Surgery Society**, Charleston, SC, March 14-17, 2004
23. “Prenatal diagnosis and outcome of fetuses with giant neck masses.” **Michael E. DeBakey International Surgical Society**, XVth Congress, May 15-17, 2004
24. “Spontaneous resolution of prenatal ovarian torsion.” **Canadian Association of Pediatric Surgeons**, Winnepeg, CANADA, September 30-October 3, 2004
25. “Predictors of airway obstruction and outcome of fetuses with giant neck masses.” **American College of Surgeons, South Texas Chapter**, Houston, TX, March 12, 2005