

Division Data Summary

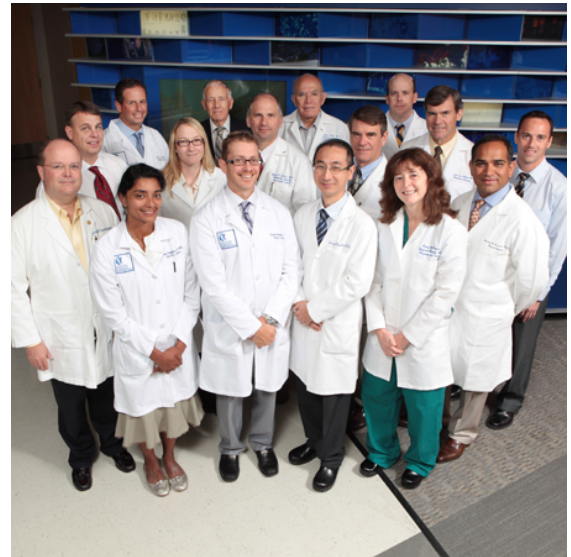
Research and Training Details

Number of Faculty	22
Number of Research Fellows	5
Number of Support Personnel	72
Direct Annual Grant Support	\$1,214,795
Direct Annual Industry Support	\$99,666
Peer Reviewed Publications	69

Clinical Activities and Training

Number of Clinical Staff	18
Number of Clinical Fellows	8
Number of Other Students	11
Inpatient Encounters	3645
Outpatient Encounters	12,988

Division Photo



Row 1: T Crombleholme, R Dasgupta, R Falcone, F Lim, R Brown, S Keswani
Row 2: M Helmrath, H Jones, M Levitt, F Ryckman, D von Allmen, T Jenkins
Row 3: J Frischer, L Martin, A Peña, S Barnett

Significant Publications

Chatoorgoon K, Huezo K, Rangel E, Schweer L, Daugherty M, Koehn M, Ricketts C, Brown RL, **Garcia VF, Falcone RA Jr.** **Unnecessary imaging, not hospital distance, or transportation mode impacts delays in the transfer of injured children.** *Pediatr Emerg Care.* 26(7):481-6. 2010.

Timely transfer of injured children to pediatric trauma centers (PTCs) that can address their unique needs is important. This study was designed to understand the characteristics of transferred injured children. Despite the advantages of care in trauma centers, a significant number of severely injured children are transferred well beyond 2 hours after injury. This study has demonstrated that this pattern of delayed transfer is a systemic problem occurring among all transferring hospitals regardless of distance or mode of patient transfer and is associated with increased use of imaging before transfer.

Crombleholme TM, **Lim LY, Habli M**, Polzin W, Jaekle R, Michelfelder E, Cnota J, Liu C, Kim MO. **Improved recipient survival with maternal nifedipine in twin-twin transfusion syndrome complicated by TTTS cardiomyopathy undergoing selective fetoscopic laser photocoagulation.** *Am J Obstet Gynecol.* 203(4):397.e1-9. 2010.

The purpose of this study was to evaluate the effect of maternal nifedipine on fetal survival when started 24-48 hours before selective fetoscopic laser photocoagulation (SFLP). In conclusion, maternal nifedipine is associated with improved recipient survival in TTTS that undergoes SFLP. This is the first study to suggest a benefit of adjunctive maternal medical therapy in patients with TTTS who undergo SFLP

Kaulfers AM, Bean JA, **Inge TH**, Dolan LM, Kalkwarf HJ. **Bone loss in adolescents after bariatric surgery.** *Pediatrics.* 127(4):e956-61. 2011.

The purpose of this study was to evaluate bone loss in adolescents after Roux-en-Y gastric bypass surgery and to determine the extent to which bone loss was related to weight loss. We hypothesized that adolescents would lose bone mass after surgery and that it would be associated with weight loss. In conclusion, bariatric surgery is associated with significant bone loss in adolescents. Although the predicted bone density was appropriate for age 2 years after surgery, longer follow-up is warranted to determine whether bone mass continues to change or stabilizes.

Levitt MA, Bischoff A, **Pena A**. **Pitfalls and challenges of cloaca repair: how to reduce the need for reoperations**. *J Pediatr Surg*. 46(6):1250-5. 2011.

Cloacal malformations represent the most complex of genitourinary/anorectal anomalies. We have encountered a unique group of complications in referred patients after failed attempted repairs elsewhere and chose to review this experience with the hope of identifying pitfalls to avoid during the primary repair. We have observed key complications requiring reoperation in a large series of cloacal malformations that are potentially avoidable. A persistent urogenital sinus can be avoided by properly diagnosing a cloaca and repairing the entire malformation and not just the rectum during the initial repair. Vaginal and urethral complications occurred mainly in patients with a common channel longer than 3 cm. Repair of cloacas with common channels longer than 3 cm requires familiarity with a complex decision-making process, and atresias, strictures, and fistulae can be avoided with adequate mobilization of structures and preservation of blood supply. Rectal prolapse occurrence relates to the quality of the perineal muscles. Reoperations can restore the anatomy, but the functional results are not as good as those achieved after primary repair.

Murrell Z, Dickie B, **Dasgupta R**. **Lung nodules in pediatric oncology patients: a prediction rule for when to biopsy**. *J Pediatr Surg*. 46(5):833-7. 2011.

The purpose of the study was to develop a prediction rule regarding the factors that most accurately predict the diagnosis of a malignancy in a lung nodule in the pediatric oncology patient. In conclusion, lesions that are between 5 and 10 mm in size and peripherally located in patients with osteosarcoma, Ewing sarcoma, or hepatocellular carcinoma are most likely to be malignant. Use of a prediction rule can help guide clinical practice by determining which patients should undergo surgical resection of lung nodules and which patients may be closely observed with continued radiologic studies.

Division Highlights

Molecular Fetal Lab - Timothy Crombleholme, MD

Dr. Crombleholme has expertise in wound healing and fetal cellular and molecular therapeutics research. Dr. Crombleholme is the Director, Surgical Research and Associate Chair of the Children's Hospital Research Foundation and the Medical Director of the Fetal Care Center.

Solid Organ Cancers - Jason Frischer, MD

Dr. Frischer is continuing his basic science research to study solid organ cancers by identifying, and then overcoming, the mechanisms by which they become resistant to current therapies. Dr. Frischer is the ECMO Director. He intends on applying for a K08 in the fall of 2011.

Intestinal Rehabilitation - Michael Helmrath, MD

Dr. Helmrath has expertise in intestinal rehabilitation. His basic science research continues to focus on

intestinal failure and intestinal stem cells. He is studying the mechanisms of intestinal stem cell expansion following resection. His research will help better understand how the cells that continually renew the lining of the intestine every day (intestinal stem cells) increase in number to help compensate following intestinal loss. His research continues to be funded by the NIH as an R01. He has submitted a second R01 which is pending.

Bariatric Surgery - Thomas Inge, MD

The Center for Bariatric Research and Innovation directed by Dr. Inge continues to partner with NIDDK and lead the national effort to prospectively gather data and publish evidence-based recommendations for use of weight loss surgery in adolescents. The team received a renewal of their NIH U01 funded Teen LABS Study, the largest multicenter study to document outcomes of adolescents undergoing weight loss surgery. In addition to this parent grant, the study group has added numerous other R01-funded ancillary studies to the consortium. Dr. Inge also received ARRA funding for Assessing the Health Benefits and Risks of Adolescent Bariatric patients. He has submitted a NIH Competitive renewal to continue this important research.

Molecular Fetal Therapy - Sundeep Keswani, MD

Dr. Keswani's is focusing on the molecular mechanisms underlying the fetal regenerative wound healing phenotype. If goals are realized, it may yield a wide range of therapeutics for diseases characterized by excessive fibroplasia. His basic science interests in fetal wound healing are closely paired with his clinical practice in fetal surgery and he is currently leading an initiative to create a clinical center of excellence in pediatric wound care. He has submitted his first successful K08 application to the National Institute of Health and is awaiting formal notification of the award.

Biliary Atresia - Gregory Tiao, MD

Dr. Tiao continues to develop his research in biliary atresia. Dr. Tiao received funding on his R01 submission during the past year as he continues his research career progression. Dr. Tiao is the Surgical Director for Liver and Intestinal Transplantation.

Jaimie D. Nathan, MD

Dr. Nathan's research focus is to elucidate the role of the gut microbiome in the modulation of liver injury and cholangiopathies. His studies involve a novel mouse model of small bowel bacterial overgrowth, in which a small bowel self-filling blind loop is surgically created. With this model, he is studying the gut-liver axis as it relates to the pathogenesis of a number of cholangiopathies which can progress to end-stage liver disease. He intends on applying for a K08 in the spring of 2012.

Fetal Therapy - Helen Jones, PhD

Dr. Jones is enhancing the research ongoing in the Center for Molecular Fetal Therapy (CMFT) alongside Dr. Habli. Dr. Jones continues to develop distinct research efforts as well as supporting the rest of the CMFT.

Division Collaboration

Division of Pediatric Surgery - Michael Helmrath » Division of Developmental Biology - James Wells;

Characterization of intestinal stem cells during intestinal adaptation and development of intestinal regenerative strategies.

Division of Pediatric Surgery - Michael Helmrath » Division of Gastroenterology, Hepatology and Nutrition -

Noah Shroyer

Characterization of intestinal stem cells during intestinal adaptation and development of intestinal regenerative strategies.

Division of Pediatric Surgery - Jason Frischer » Division of Oncology

Treating well established murine models of colitis with antianitogenic agents to provide new treatments for the managing of Crohn's disease and ulcerative colitis.

Division of Pediatric Surgery - Jason Frischer » Division of Gastroenterology, Hepatology and Nutrition - Lee Denson

Exploring the growth and development of blood vessels in a tumor environment to try to develop novel cancer therapies to overcome tumor resistance to the classic treatments.

Faculty Members

Daniel von Allmen, MD, Professor

Division Director

Research Interests

Richard G. Azizkhan, MD, Professor

Surgeon-in-Chief

Research Interests

Maria H. Alonso, MD, Associate Professor

Surgical Associate Director, Liver Transplant; Surgical Director, Kidney Transplant

Research Interests

Sean J. Barnett, MD, MS, Assistant Professor

Research Interests

Rebecca L. Brown, MD, Associate Professor

Associate Director, Trauma Services

Research Interests

Timothy M. Crombleholme, MD, Professor

Obstetrics/Gynecology, and Pediatrics, Director, Fetal Care Center of Cincinnati

Research Interests

A. Roshni Dasgupta, MD, MPh, Assistant Professor

Research Interests

Richard A. Falcone, MD, MPh, Assistant Professor

Director, Trauma Services, Associate Program Director-Fellowship

Research Interests

Jason S. Frischer, MD, Assistant Professor

Director, ECMO Service

Research Interests

Victor F. Garcia, MD, Professor

Director, Trauma Services; Associate Surgical Director, Comprehensive Weight Management Center

Research Interests

Mounira Habli, MD, Assistant Professor

Research Interests

Michael A. Helmuth, MD, Professor

Research Interests

Thomas H. Inge, MD, PhD, Associate Professor

Surgical Director, Comprehensive Weight Management Center

Research Interests

Todd M. Jenkins, PhD, Assistant Professor

Research Interests

Helen Jones, PhD, Assistant Professor

Research Interests

Sundeep G. Keswani, MD, Assistant Professor

Research Interests

Marc A. Levitt, MD, Associate Professor

Associate Director, Colorectal Center for Children, Associate Program Director Fellowship

Research Interests

Foong-Yen Lim, MD, Assistant Professor

Research Interests

Jaimie D. Nathan, MD, Assistant Professor

Research Interests

Alberto Peña, MD, Professor

Director, Colorectal Center for Children

Research Interests

Frederick C. Ryckman, MD, Professor

Surgical Director, Liver Transplant; Clinical Director

Research Interests

Gregory M. Tiao, MD, Associate Professor

Associate Program Director, Fellowship

Research Interests

Trainees

- Mubeen Jafri, MD, PL-9, University of Cincinnati
- Jason Fisher, MD, PL-8, New York Presbyterian Hospital-Columbia University

Significant Accomplishments

Intestinal Rehabilitation

Michael Helmrath, MD, has expertise in intestinal rehabilitation. His basic science research continues to focus on intestinal failure and intestinal stem cells. He is studying the mechanisms of intestinal stem cell expansion following resection. His research is funded by the National Institutes of Health as an R01. Also, he has submitted a second R01 that is pending. His research will help better understand how the cells (intestinal stem cells) that renew the lining of the intestine every day increase in number to help compensate following intestinal loss.

Bariatric Surgery

Thomas Inge, MD, PhD, directs the Center for Bariatric Research and Innovation, which partners with the

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) to lead the national effort to prospectively gather data and publish evidence-based recommendations for use of weight loss surgery in adolescents. The Teen LABS study continues to be funded by the NIDDK, the largest multicenter study to document outcomes of adolescents undergoing weight loss surgery. He has submitted a competitive renewal to continue this important research.

Wound Healing

Sundee Keswani, MD, is focusing on the molecular mechanisms underlying the fetal regenerative wound healing phenotype. If goals are realized, his work may yield a wide range of therapeutics for diseases characterized by excessive fibroplasia. His basic science interests in fetal wound healing are closely paired with his clinical practice in fetal surgery and he is leading an initiative to create a clinical center of excellence in pediatric wound care. He has submitted his first K08 application to the National Institutes of Health.

Biliary Atresia

Gregory Tiao, MD, continues to develop his research in biliary atresia. Tiao received funding on his R01 submission during the past year.

Division Publications

1. Alam S, Lawal TA, Pena A, Sheldon C, Levitt MA. **Acquired posterior urethral diverticulum following surgery for anorectal malformations**. *J Pediatr Surg*. 2011; 46:1231-5.
2. Alonso MH. **Liver Transplant**. *Fundamentals of pediatric surgery*. New York ; London: Springer; 2011: 847-856. .
3. Barnett SJ. **Contemporary surgical management of the obese adolescent**. *Curr Opin Pediatr*. 2011; 23:351-5.
4. Barraco RD, Cheng JD, Bromberg WJ, Falcone RA, Hammond JS, Lui FY, Sandhu RS, Scaff DW. **Child passenger safety: an evidence-based review**. *J Trauma*. 2010; 69:1588-90.
5. Bischoff A, Gupta A, D'Mello S, Mezoff A, Podberesky D, Barnett S, Keswani S, Frischer JS. **Crohn's disease limited to the appendix: a case report in a pediatric patient**. *Pediatr Surg Int*. 2010; 26:1125-8.
6. Bischoff A, Levitt MA, Lawal TA, Pena A. **Colostomy closure: how to avoid complications**. *Pediatr Surg Int*. 2010; 26:1087-92.
7. Bischoff A, Levitt MA, Lim FY, Guimaraes C, Pena A. **Prenatal diagnosis of cloacal malformations**. *Pediatr Surg Int*. 2010; 26:1071-5.
8. Boat A, Mahmoud M, Michelfelder EC, Lin E, Ngamprasertwong P, Schnell B, Kurth CD, Crombleholme TM, Sadhasivam S. **Supplementing desflurane with intravenous anesthesia reduces fetal cardiac dysfunction during open fetal surgery**. *Paediatr Anaesth*. 2010; 20:748-56.
9. Brandt ML, Harmon CM, Helmrath MA, Inge TH, McKay SV, Michalsky MP. **Morbid obesity in pediatric diabetes mellitus: surgical options and outcomes**. *Nat Rev Endocrinol*. 2010; 6:637-45.
10. Browne AW, Leddon JL, Currier MA, Williams JP, Frischer JS, Collins MH, Ahn CH, Cripe TP. **Cancer screening by systemic administration of a gene delivery vector encoding tumor-selective secreted biomarker expression**. *PLoS One*. 2011; 6:e19530.
11. Chatoorgoon K, Huezo K, Rangel E, Francois N, Schweer L, Daugherty M, Koehn M, Ricketts C, Brown RL, Garcia VF, Falcone RA, Jr.. **Unnecessary imaging, not hospital distance, or transportation mode impacts delays in the transfer of injured children**. *Pediatric Emergency Care*. 2010; 26:481-6.
12. Chatoorgoon K, Pena A, Lawal T, Hamrick M, Loudon E, Levitt MA. **Neoappendicostomy in the management of pediatric fecal incontinence**. *J Pediatr Surg*. 2011; 46:1243-9.

13. Chernoguz A, Telem DA, Chu E, Ozao-Choy J, Tammaro Y, Divino CM. **Cessation of clopidogrel before major abdominal procedures.** *Arch Surg.* 2011; 146:334-9.
14. Chu EW, Telem DA, Chernoguz A, Divino CM. **Assessing the risk of clopidogrel-related bleeding complications in patients undergoing inguinal herniorrhaphy.** *Hernia.* 2011; 15:31-5.
15. Cooke DL, Levitt M, Kim LJ, Hallam DK, Ghodke B. **Transcranial access using fluoroscopic flat panel detector CT navigation.** *AJNR Am J Neuroradiol.* 2011; 32:E69-70.
16. Crombleholme T, Lim FY. **Fetal Disorders.** *Rudolph's pediatrics.* New York: McGraw Hill Medical; 2011.
17. Crombleholme T, Lim FY. **Surgical Treatment of the Fetus.** *Fanaroff and Martin's neonatal-perinatal medicine : diseases of the fetus and infant.* Philadelphia: Saunders/Elsevier; 2011.
18. Crombleholme TM, Lim FY, Habli M, Polzin W, Jaekle R, Michelfelder E, Cnota J, Liu C, Kim MO. **Improved recipient survival with maternal nifedipine in twin-twin transfusion syndrome complicated by TTTS cardiomyopathy undergoing selective fetoscopic laser photocoagulation.** *Am J Obstet Gynecol.* 2010; 203:397 e1-9.
19. Eghtesady P, Michelfelder EC, Knilians TK, Witte DP, Manning PB, Crombleholme TM. **Fetal surgical management of congenital heart block in a hydropic fetus: lessons learned from a clinical experience.** *J Thorac Cardiovasc Surg.* 2011; 141:835-7.
20. Falcone RA. **Gastroschisis and Omphalocele.** *Atlas of Pediatric Surgical Techniques.* Philadelphia, PA: Elsevier Saunders; 2010: 242-252. .
21. Falcone RA, Makoroff K. **Child Abuse.** *Fundamentals of pediatric surgery.* New York ; London: Springer; 2011: 169-173. .
22. Fernandez KS, Baum R, Fung B, Yeager N, Leonis MA, Wagner LM, Tiao G, Ross ME. **Chemoresistant hepatoblastoma in a patient with mosaic trisomy 18 treated with orthotopic liver transplantation.** *Pediatric blood & cancer.* 2011; 56:498-500.
23. Garrison AP, Helmrath M. **Parental Nutrition.** *Fundamentals of pediatric surgery.* New York ; London: Springer; 2011: 33-36. .
24. Goldschneider K, Lucky AW, Mellerio JE, Palisson F, del Carmen Vinuela Miranda M, Azizkhan RG. **Perioperative care of patients with epidermolysis bullosa: proceedings of the 5th international symposium on epidermolysis bullosa, Santiago Chile, December 4-6, 2008.** *Paediatric Anaesthesia.* 2010; 20:797-804.
25. Guimaraes CV, Kline-Fath BM, Linam LE, Garcia MA, Rubio EI, Lim FY. **MRI findings in multifetal pregnancies complicated by twin reversed arterial perfusion sequence (TRAP).** *Pediatr Radiol.* 2011; 41:694-701.
26. Habli M, Cnota J, Michelfelder E, Salisbury S, Schnell B, Polzin W, Lim FY, Crombleholme TM. **The relationship between amniotic fluid levels of brain-type natriuretic peptide and recipient cardiomyopathy in twin-twin transfusion syndrome.** *Am J Obstet Gynecol.* 2010; 203:404 e1-7.
27. Hillman JB, Miller RJ, Inge TH. **Menstrual concerns and intrauterine contraception among adolescent bariatric surgery patients.** *J Womens Health (Larchmt).* 2011; 20:533-8.
28. Kaulfers AM, Bean JA, Inge TH, Dolan LM, Kalkwarf HJ. **Bone loss in adolescents after bariatric surgery.** *Pediatrics.* 2011; 127:e956-61.
29. Keswani SG, Le LD, Morris LM, Lim FY, Katz AB, Ghobril N, Habli M, Frischer JS, Crombleholme TM. **Submucosal gland development in the human fetal trachea xenograft model: implications for fetal gene therapy.** *J Pediatr Surg.* 2011; 46:33-8.
30. Kimple RJ, Wallen KE, Person T, Erwin RN, Helmrath MA, Gold S, Morris DE. **First use of electromagnetic setup and real-time tracking in a pediatric patient with vaginal rhabdomyosarcoma.** *Practical Radiation Oncology.* 2011; 1:47-51.

31. Lawal TA, Chatoorgoon K, Bischoff A, Pena A, Levitt MA. **Management of H-type rectovestibular and rectovaginal fistulas**. *J Pediatr Surg*. 2011; 46:1226-30.
32. Lawal TA, Chatoorgoon K, Collins MH, Coe A, Pena A, Levitt MA. **Redo pull-through in Hirschsprung's disease for obstructive symptoms due to residual aganglionosis and transition zone bowel**. *J Pediatr Surg*. 2011; 46:342-7.
33. Lawal TA, Falcone RA, von Allmen D, Denson LA, Levitt MA, Warner BW, Frischer JS. **The utility of routine pouchogram before ileostomy reversal in children and adolescents following ileal pouch anal anastomosis**. *J Pediatr Surg*. 2011; 46:1222-5.
34. Lawal TA, Frischer JS, Falcone RA, Chatoorgoon K, Denson LA, Levitt MA. **The transanal approach with laparoscopy or laparotomy for the treatment of rectal strictures in Crohn's disease**. *J Laparoendosc Adv Surg Tech A*. 2010; 20:791-5.
35. Lawal TA, Rangel SJ, Bischoff A, Pena A, Levitt MA. **Laparoscopic-assisted malone appendicostomy in the management of fecal incontinence in children**. *J Laparoendosc Adv Surg Tech A*. 2011; 21:455-9.
36. Le LD, Alam S, Lim FY, Keswani SG, Crombleholme TM. **Prenatal and postnatal urologic complications of sacrococcygeal teratomas**. *J Pediatr Surg*. 2011; 46:1186-90.
37. Lee TC, Lim FY, Keswani SG, Frischer JS, Haberman B, Kingma PS, Habli M, Jaekle RK, Sharp G, Kline-Fath B, Rubio EI, Calvo M, Guimaraes C, Crombleholme TM. **Late gestation fetal magnetic resonance imaging-derived total lung volume predicts postnatal survival and need for extracorporeal membrane oxygenation support in isolated congenital diaphragmatic hernia**. *J Pediatr Surg*. 2011; 46:1165-71.
38. Levitt M, Pena A. **Anorectal Malformations**. *Fundamentals of pediatric surgery*. New York ; London: Springer; 2011: 499-512. .
39. Levitt M, Pena A. **Imperforate Anus**. *Atlas of Pediatric Surgical Techniques*. Philadelphia, PA: Elsevier Saunders; 2010: 185-205. .
40. Levitt MA, Bischoff A, Pena A. **Pitfalls and challenges of cloaca repair: how to reduce the need for reoperations**. *J Pediatr Surg*. 2011; 46:1250-5.
41. Levitt MA, Mathis KL, Pemberton JH. **Surgical treatment for constipation in children and adults**. *Best Pract Res Clin Gastroenterol*. 2011; 25:167-79.
42. Levitt MA, Pena A. **Pediatric Colorectal Disorders**. *The ASCRS textbook of colon and rectal surgery*. New York: Springer; 2011: 825-842. .
43. Linam LE, Yu X, Calvo-Garcia MA, Rubio EI, Crombleholme TM, Bove K, Kline-Fath BM. **Contribution of magnetic resonance imaging to prenatal differential diagnosis of renal tumors: report of two cases and review of the literature**. *Fetal Diagn Ther*. 2010; 28:100-8.
44. Makley AT, Falcone RA, Jr.. **Posttraumatic stress disorder in the pediatric trauma patient**. *Semin Pediatr Surg*. 2010; 19:292-9.
45. Maldonado AR, Klanke C, Jegga AG, Aronow BJ, Mahller YY, Cripe TP, Crombleholme TM. **Molecular engineering and validation of an oncolytic herpes simplex virus type 1 transcriptionally targeted to midkine-positive tumors**. *J Gene Med*. 2010; 12:613-23.
46. Margolis DJ, Hoffstad O, Thom S, Bilker W, Maldonado AR, Cohen RM, Aronow BJ, Crombleholme T. **The differential effect of angiotensin-converting enzyme inhibitors and angiotensin receptor blockers with respect to foot ulcer and limb amputation in those with diabetes**. *Wound Repair Regen*. 2010; 18:445-51.
47. Morris LM, Klanke CA, Lang SA, Lim FY, Crombleholme TM. **TdTomato and EGFP identification in histological sections: insight and alternatives**. *Biotechnic & histochemistry : official publication of the Biological Stain Commission*. 2010; 85:379-87.
48. Morris LM, Klanke CA, Lang SA, Pokall S, Maldonado AR, Vuletin JF, Alaei D, Keswani SG, Lim FY, Crombleholme TM. **Characterization of endothelial progenitor cells mobilization following cutaneous**

- wounding**. *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*. 2010; 18:383-90.
49. Murrell Z, Dickie B, Dasgupta R. **Lung nodules in pediatric oncology patients: a prediction rule for when to biopsy**. *Journal of Pediatric Surgery*. 2011; 46:833-7.
50. Nash GM, Weiss A, Dasgupta R, Gonen M, Guillem JG, Wong WD. **Close distal margin and rectal cancer recurrence after sphincter-preserving rectal resection**. *Dis Colon Rectum*. 2010; 53:1365-73.
51. Nathan J, Campbell K, Tiao G, Alonso M. **Portal Hypertension**. *Fundamentals of pediatric surgery*. New York ; London: Springer; 2011: 599-610. .
52. Nathan JD, Ryckman FC. **Biliary Atresia**. *Atlas of Pediatric Surgical Techniques*. Philadelphia, PA: Elsevier Saunders; 2010.
53. Pena A. **[Philosophy, medicine and clinical reasoning. Part II.]**. *Med Clin (Barc)*. 2011; 137:131-135.
54. Pena A. **[Philosophy, medicine and clinical reasoning]**. *Med Clin (Barc)*. 2011; 136:633-6.
55. Pena A, Levitt M. **Imperforate Anus**. *Pediatric gastrointestinal and liver disease*. Philadelphia, PA: Saunders; 2010: 583-590. .
56. Pizarro D, Habli M, Grier M, Bombrys A, Sibai B, Livingston J. **Higher maternal doses of methadone does not increase neonatal abstinence syndrome**. *J Subst Abuse Treat*. 2011; 40:295-8.
57. Rangel EL, Burd RS, Falcone RA, Jr.. **Socioeconomic disparities in infant mortality after nonaccidental trauma: a multicenter study**. *J Trauma*. 2010; 69:20-5.
58. Rangel SJ, Lawal TA, Bischoff A, Chatoorgoon K, Loudon E, Pena A, Levitt MA. **The appendix as a conduit for antegrade continence enemas in patients with anorectal malformations: lessons learned from 163 cases treated over 18 years**. *J Pediatr Surg*. 2011; 46:1236-42.
59. Ratcliff MB, Reiter-Purtil J, Inge TH, Zeller MH. **Changes in depressive symptoms among adolescent bariatric candidates from preoperative psychological evaluation to immediately before surgery**. *Surg Obes Relat Dis*. 2011; 7:50-4.
60. Sinha CH, Levitt M, Pena A. **Anorectal Malformations**. *Handbook of pediatric surgery*. New York ; London: Springer; 2010: 125-131. .
61. Speck KE, Garrison AP, Rigby RJ, von Allmen DC, Lund PK, Helmrath MA. **Inflammation enhances resection-induced intestinal adaptive growth in IL-10 null mice**. *J Surg Res*. 2011; 168:62-9.
62. Stanek J, Sheridan RM, Le LD, Crombleholme TM. **Placental fetal thrombotic vasculopathy in severe congenital anomalies prompting EXIT procedure**. *Placenta*. 2011; 32:373-9.
63. Tiao G. **Choledochal Cysts**. *Fundamentals of pediatric surgery*. New York ; London: Springer; 2011: 587-598. .
64. von Allmen D. **Adrenal Tumors**. *Fundamentals of pediatric surgery*. New York ; London: Springer; 2011: 725-728. .
65. von Allmen D. **Duodenal Obstruction**. *Atlas of Pediatric Surgical Techniques*. Philadelphia, PA: Elsevier Saunders; 2010.
66. Wagner LM, Gelfand MJ, Laor T, Ryckman FC, Al-Ghawi H, Bove KE. **A welcome surprise: nodular fasciitis presenting as soft tissue sarcoma**. *J Pediatr Hematol Oncol*. 2011; 33:316-9.
67. Wijers CH, de Blaauw I, Marcelis CL, Wijnen RM, Brunner H, Midrio P, Gamba P, Clementi M, Jenetzky E, Zwink N, Reutter H, Bartels E, Grasshoff-Derr S, Holland-Cunz S, Hosie S, Marzheuser S, Schmiedeke E, Cretolle C, Sarnacki S, Levitt MA, Knoers NV, Roeleveld N, van Rooij IA. **Research perspectives in the etiology of congenital anorectal malformations using data of the International Consortium on Anorectal Malformations: evidence for risk factors across different populations**. *Pediatr Surg Int*. 2010; 26:1093-9.
68. Young LR, Brody AS, Inge TH, Acton JD, Bokulic RE, Langston C, Deutsch GH. **Neuroendocrine cell**

distribution and frequency distinguish neuroendocrine cell hyperplasia of infancy from other pulmonary disorders. *Chest.* 2011; 139:1060-71.

69. Zeller MH, Guilfoyle SM, Reiter-Purtill J, Ratcliff MB, Inge TH, Long JD. **Adolescent bariatric surgery: caregiver and family functioning across the first postoperative year.** *Surg Obes Relat Dis.* 2011; 7:145-50.

Grants, Contracts, and Industry Agreements

Grant and Contract Awards	Annual Direct / Project Period Direct
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CHERNOGUZ, A

Role of EGFR Inhibition in Anti-VEGF Therapy Resistant Neuroblastoma Model

University of Cincinnati

01/01/11-12/31/11

\$5,000

FALCONE, R

Teen Resraint

Ohio Department of Public Safety

10/01/10-09/30/11

\$41,038

Evaluation of Pediatric Trauma Triage Criteria for Highest Activation

Ohio Department of Public Safety

07/01/10-06/30/11

\$43,015

VANDERSALL, A

Use of Antiangiogenic Therapy to Suppress Inflammation in Colitis

Crohn's & Colitis Foundation of America

06/15/2011-08/15/2011

\$2,500

HELMRATH, M

Mechanisms of Intestinal Stem Cell Expansion Following Resection

National Institutes of Health

R01 DK 083325

05/01/10-06/30/14

\$312,745

INGE, T

Adolescent Bariatrics: Assessing Health Benefits & Risks

National Institutes of Health

U01 DK 072493 05S2

07/01/10-06/30/11

\$198,063

Adolescent Bariatrics: Assessing Health Benefits & Risks

National Institutes of Health

U01 DK 072493 05S1

07/01/10-06/30/11

\$222,963

JENKINS, T

Dietary Intake and Eating Behavior in Adolescents Who Undergo Bariatric Surgery

National Institutes of Health(University of Pennsylvania)

R01 DK 080738

07/01/08-06/30/13

\$34,078

KESWANI, S

Novel Mechanisms of Regenerative Fetal Wound Repair by IL-10

Association for Academic Surgery

AAS 2011 Roslyn Award

03/01/11-02/28/12

\$35,000

TIAO, G

The Molecular Determinants of Virus Induced Biliary Atresia

National Institutes of Health

R01 DK 091566	04/01/11-03/31/16	\$270,893
Intracellular Signaling Pathways and Virus Induced Biliary Atresia		
National Institutes of Health		
R03 DK 087974	05/01/10 -04/30/12	\$49,500
Current Year Direct		\$ \$1,214,795
Industry Contracts		
AZIZKHAN, R		
CHKD		\$7,492
INGE, T		
Ethicon Endo-Surgery, Inc		\$77,174
DASGUPTA, A		
Institut de Recherche Pierre Fabre		\$15,000
Current Year Direct Receipts		\$ \$99,666
Total		\$ \$1,314,461