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CURRICULUM VITAE

ROBERT HILTON SQUIRES, M.D.

HOME ADDRESS: 4301 Bigelow Blvd
Pittsburgh, PA 15213

HOME PHONE: 412-682-7333

BUSINESS ADDRESS: Children's Hospital of Pittsburgh of UPMC
Division of Pediatric Gastroenterology, Hepatology and Nutrition
Faculty Office Building, Room 6116
4401 Penn Ave
Pittsburgh, PA 15224

BUSINESS PHONE: (412) 692-8648 (Work)
(412) 692-7355 (FAX)

E-MAIL ADDRESS: squiresr@upmc.edu (Work)
roberthsquires@gmail.com (Home)

DATE OF BIRTH: September 17, 1951

PLACE OF BIRTH: Houston, Texas

CITIZENSHIP: USA

MARITAL STATUS: Spouse: Janet Endress Squires, M.D., 1979
Children: Gregory Robert, May 16, 1980
James Eugene, April 13, 1982
Elizabeth Mary, July 9, 1983

EDUCATION AND TRAINING:

Undergraduate:

1969-73 Austin College, Sherman, Texas, Bachelor of Arts, Biology

Graduate:

1973-77 University of Texas Medical Branch Galveston, Texas, M.D.

Post-Graduate:

1981 Fellow, Ambulatory Pediatrics, St. Louis Children's Hospital, St. Louis, MO
1979-81 Fellow, Pediatric Gastroenterology/Nutrition, St. Louis Children's Hospital, and Barnes, Jewish, and V.A. Hospitals, St. Louis, MO
1979-80 Pediatric Chief Resident, St. Louis Children's Hospital, St. Louis, MO
1978-79 Pediatric Residency, St. Louis Children's Hospital, St. Louis, MO
1977-78 Pediatric Internship, St. Louis Children's Hospital, St. Louis, MO

APPOINTMENTS AND POSITIONS:

Academic:

2003- Professor of Pediatrics, Division of Gastroenterology, Hepatology and Nutrition, University of Pittsburgh School of Medicine
2001-03 Professor of Pediatrics, Division of Gastroenterology and Nutrition, UT Southwestern Medical School, Dallas, Texas

Non-Academic (Private Practice):

1982-87 Robert H. Squires, MD., PA/ Pediatric Gastroenterology Associates of Ft Worth, Ft. Worth, Texas

Hospital Appointments:

2015- Primary Liver Transplant Physician, CHP, Pittsburgh, PA
2003-12 Clinical Director, Gastroenterology, CHP, Pittsburgh, PA
2006-09 Co-Director, Intestinal Care and Rehabilitation (ICARE) Service
2005-12 Primary Live-Donor Liver Transplant Physician, CHP.
2003-12 Primary Liver Transplant Physician, CHP.
2003-07 Director, Pediatric Hepatology, CHP
2003- Active Staff, Children's Hospital of Pittsburgh of UPMC

CERTIFICATION AND LICENSURE

Specialty Certification:

2016 Re-certification—Pediatric Transplant Hepatology through 2026
2015 Re-certification—Pediatric Gastroenterology through 2025

2006 Pediatric Transplant Hepatology through 2016
2004 Re-certification – Pediatric Gastroenterology through 2015

Licensure:

State License-Virginia, 0101260862	7/15/16-9/30/18
State License-Pennsylvania, MD421365	2003
State License-Texas, E-8930	1997
DEA #	AS-9262255

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

Organizations:

American Academy of Pediatrics, Fellow
American Pediatric Society
North American Society of Pediatric Gastroenterology, Hepatology and Nutrition
American Association for the Study of Liver Disease, Fellow

HONORS

2017 Ashbel Smith Distinguished Alumnus Award, University of Texas Medical Branch
2017 Listed in *Best Doctors in Pittsburgh* and annually since 2005
2017 Listed in *The Best Doctors in America* and annually since 1993
2016 Patient Satisfaction Award, Children’s Hospital of Pittsburgh of UPMC
2016 James Ted Engle Pediatric Liver Transplant Lectureship, Cleveland Clinic
2015 Murray Davidson Award presented by the American Academy of Pediatrics
2015 James A. Wright Memorial Lectureship, Univ of Alabama, Birmingham, AL.
2014 Fellow, American Association for the Study of Liver Disease
2013 Daniel Miller Memorial Lecture, Children’s Mercy Hospital Kansas City, MO
2010 Tribute to Excellence Award-American Liver Foundation; Western PA
2005 Elected to the American Pediatric Society
2004 Distinguished Alumnus, Austin College, Sherman, Texas
2003 Distinguished Service Award, American Academy of Pediatrics
2001 Special Achievement Award, American Academy of Pediatrics

PUBLICATONS:

Refereed Articles (since 2005):

1. Shneider B, Rinaldo P, Emre S, Bucuvalas J, Squires R, Narkewicz M, Gondolesi G, Magid M, Morotti R, Hynan L, and the Pediatric acute Liver Failure Study group. Abnormal concentrations of esterified carnitine in bile: A feature of pediatric acute liver failure with poor prognosis. *Hepatology* 2005;41:717-721. (PMID:15791615)
2. DiLorenzo C, Colletti RB, Lehmann HP, Boyle JT, Serson WT, Hyams JS, Squires RH, Walker LS, Kanda, PT; AAP Subcommittee; NASPGHAN Committee on Chronic Abdominal Pain. Chronic Abdominal Pain in Children: a Technical report of the American Academy of

- Pediatrics and the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition. *J Pediatr Gastroenterol Nutr* 2005;40:249-61.
3. DiLorenzo C, Colletti RB, Lehmann HP, Boyle JT, Serson WT, Hyams JS, Squires RH, Walker LS, Kanda, PT; AAP Subcommittee; NASPGHAN Committee on Chronic Abdominal Pain. Chronic Abdominal Pain in children: a clinical report for the American Academy of Pediatrics and the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition. *J Pediatr Gastroenterol Nutr* 2005;40:245-248.
 4. Strauss K, Mazariegos G, Sindhi R, Squires R, Finegold D, Virgi M, Cropcho L, Puffenberger E, McGhee W, Seward L, Morton DH. Elective liver transplantation for the treatment of classical maple syrup urine disease. *Am J Transplantation* 2006;6:557-564.
 5. Fuda F, Narayanan SB, Squires RH, Bennett MJ. Bile acylcarnitine profiles in pediatric liver disease do not interfere with the diagnosis of long-chain fatty acid oxidation defects. *Clin Chim Acta* 2006;367:185-88.
 6. Squires RH, Shneider BL, Bucuvalas J, Alonso E, Sokol RJ, Narkewicz MR, Dhawan A, Rosenthal P, Rodriguez-Baez N, Murray KF, Horslen S, Martin MG, Lopez MJ, Soriano H, McGuire BM, Jonas MM, Yazigi N, Shepherd RW, Schwarz K, Lobritto S, Thomas DW, Lavine JE, Karpen S, Ng V, Kelly D, Simonds N, Hynan LS. Acute Liver Failure in Children: The First 348 Patients in the Pediatric Acute Liver Failure Study Group. *J. Pediatr.* 2006;148:52-658 PMID:PMC2662127
 7. Shneider BL, Brown MB, Haber B, Whittington PF, Schwarz K, Squires R, Bezerra J, Shepherd R, Rosenthal P, Hoofnagle HG, Sokol RJ, Biliary Atresia Research Consortium. A multicenter study of the outcome of biliary atresia in the United States, 1977 to 2000. *J Pediatr* 2006;148:467-474. (PMID:16647406)
 8. James LP, Alonso EM, Hynan LS, Hinson JA, Davern TJ, Lee WM, Squires RH, and the Pediatric Acute Liver Failure Study Group. Detection of Acetaminophen Protein Adducts in Children with Acute Liver Failure of Indeterminate Cause. *Pediatrics* 2006; 118: e676-e681. PMID:16950959
 9. Bucuvalas J, Yazigi N, Squires RH Jr. Acute Liver Failure in Children. *Clin Liver Dis.* 2006; 10:149-168.
 10. Shneider B, Emre S, Groszmann R, Karani J, McKiernan P, Sarin S, Shashidhar H, Squires R, Superina R, de Ville de Goyet J, de Franchis R. Expert Pediatric Opinion on the Report of the Baveno IV Consensus Workshop on Methodology of Diagnosis and Therapy in Portal Hypertension. *Pediatric Transplantation.* 2006; 10:893-907.
 11. Soltys KA, Mazariegos GV, Squires RH, Sindhi RD, Anand R and the SPLIT research Group. Late graft loss or death in pediatric liver transplantation: an analysis of the SPLIT database. *Amer J Transplantation.* 2007;7:2165-71.
 12. DeRusso, PA, Wen Y, Shepherd R, Haber BA, Shneider BL, Whittington PF, Schwarz KB, Bezerra JA, Rosenthal P, Karpen S, Squires RH, Magee JC, Robuck PR, Sokol RJ for the Biliary Atresia Research Consortium. Growth Failure and Outcomes in Infants with Biliary Atresia: A Report from the Biliary Atresia Research Consortium. *Hepatology* 2007;46:1632-38. (PMID:17929308)
 13. Nucci A, Burns RC, Armah T, Lowery K, Yaworski JA, Strohm S, Bond G, Mazariegos G, Squires R. Interdisciplinary Management of Pediatric Intestinal Failure: A 10-year Review of Rehabilitation and Transplantation. *J Gastrointest Surg.* 2007.
 14. Lee WM, Squires RH, Nyberg SL, Doo E, Hoofnagle JH. Acute Liver Failure: Summary of a Workshop. *Hepatology* 2008;47:1401-15. PMID: PMC3381946
 15. Korman JD, Volenberg I, Balko J, Webster J, Schiodt FV, Squires RH, Fontana RJ, Lee WM, Schilsky ML, and the Pediatric and Adult Acute Liver Failure Study Groups. Screening

- for Wilson disease in acute liver failure: a comparison of currently available diagnostic tests. *Hepatology* 2008;48:1167-74 (PMID:18798336)
16. Squires RH. Acute Liver Failure in Children. *Seminars in Liver Disease*. 2008;28:153-166.
 17. Mazariegos GV, Soltys K, Bond G, Girnita A, Machaidze Z, Jaffe R, Green M, Martin D, Zeevi A, Squires R, Perez G, Abu-Elmagd K, Sindhi R. Pediatric intestinal retransplantation: techniques, management, and outcomes. *Transplantation* 2008;86:1777-1782.
 18. Rudnick DA, Dietzen DJ, Turmelle YP, Shepherd R, Zang S, Belle SH, Squires R. Serum alpha-NH(2)-butyric acid may predict spontaneous survival in pediatric acute liver failure. *Pediatric Transplant*. 2009; 13:223-230. (PMC2659723)
 19. Mazariegos GV, Squires RH, Sindhi RK. Current Perspectives on Pediatric Intestinal Transplantation. *Current Gastroenterology Reports*. 2009;11:226-233.
 20. Narkewicz MR, Dell-Olio D, Karpen SJ, Murray KF, Schwarz K, Yazigi N, Zhang S, Belle SH, Squires RH. Pattern of diagnostic evaluation for the causes of pediatric acute liver failure. *J Pediatrics* 2009; 155:801-806. PMID: 19643443 PMCID: N/A
 21. Nayyar N, Mazariegos G, Ranganathan S, Soltys K, Bond G, Jaffe R, Sun Q, Nucci A, Kosmach B, Squires R, Abu-Elmagd K, Sindhi R. Pediatric Small Bowel Transplantation. *Seminars in Pediatric Surgery*. 2010; 19:68-77.
 22. Lohr NJ, Molleston JP, Strauss KA, Torres-Martinez W, Sherman EA, Squires RH, Rider NL, Chikwava KR, Cummings OW, Morton DH, Puffenberger EG. Human ITCH E3 Ubiquitin Ligase Deficiency causes Syndromic Multisystem Autoimmune Disease. *Amer J Human Genetics*. 2010. 86; 3:447-453.
 23. Vodovotz Y, Constantine G, Faeder J, Mi Q, Rubin J, Bartels J, Sarkar J, Squires RH, Okonkwo DO, Gerlach J, Zamora R, Luckhart S, Ermentrout B, An G. Translational Systems Approaches to the Biology of Inflammation and Healing. *Immunopharmacology and Immunotoxicology*, 2010; 2:181-95. PMCID: PMC3134151
 24. Rudolph JA, Squires R. Current concepts in the medical management of pediatric intestinal failure. *Curr Opin Organ Transplant* 2010; 15:324-29.
 25. Squires, JE, Squires RH. Munchausen syndrome by proxy: Ongoing clinical challenges. *J Pedi Gastroenterol Nutr*. 2010;3:248-253.
 26. Soltys KA, Soto-Gutierrez A, Nagaya M, Baskin KM, Deutsch M, Ito R, Shneider BL, Squires R, Vockley J, Guha C, Roy-Chowdhury J, Strom SC, Platt JL, Fox IJ. Barriers to the successful treatment of liver disease by hepatocyte transplantation. *J Hepatology*. 2010;53:769-774
 27. Mi Q, Li N Y-K, Ziraldo C, Ghuma A, Mikheev M, Squires R, Okonkwo DO, Verdolini K, Constantine G, An G, Vodovotz Y. Translational systems biology of inflammation: potential applications to personalized medicine. *Personalize Medicine*. 2010;7:549-559. PMCID:PMC3041597
 28. Ningappa M, Higgs BW, Weeks DE, Ashokkumar C, Duerr RH, Sun Q, Soltys KA, Bond GJ, Abu-Elmagd K, Mazariegos GV, Alissa F, Rivera M, Rudolph J, Squires R, Hakonarson H, Sindhi R. NOD2 Gene Polymorphism rs2066844 associates with need for combined liver-intestine transplantation in children with short-gut syndrome. *Am J Gastroenterol*. 2011;106:157-165.
 29. Ashokkumar C, Ningappa M, Ranganathan S, Higgs BW, Sun Q, Schmitt L, Snyder S, Bobberstein J, Branca M, Faffe R, Zeevi A, Squires R, Alissa F, Shneider B, Soltys K, Bond G, Abu-Elmagd K, Humar A, Mazariegos G, Hakonarson H, Sindhi R. Increased expression of peripheral blood leukocyte genes implicate CD14+ tissue macrophages in cellular intestine allograft rejection. *Am J Pathol* 2011;179:1929-38.

30. Fischer RT, Soltys KA, Squires RH, Jaffe R, Mazariegos GV, Shneider BL. Prognostic scoring indices in Wilson Disease: A case series and cautionary tale. *J Pediatr Gastroenterol Nutr.* 2011;52:466-69
31. Nucci AM, Strohm S, Squires RH, Mazariegos GV, Sun Q, Sindhi R. Growth Pre- and Post-implementation of a steroid-free induction protocol in a large pediatric intestinal transplant population. *J Pediatr Gastroenterol Nutr.* 2011;52:601-11. PMID: 21464750
32. Sundaram SS, Alonso EM, Narkewicz M, Zhang S, Squires R, and the PALF Study Group. Characterization and outcomes of young infants with acute liver failure. *J Pediatr* 2011;159(5):813-18. PMCID: PMC3177978
33. McHugh JA, Cullison S, Apuzzio J, Block JM, Cohen C, Leong SL, London WT, McNeillis RJ, Neubauer RL, Perillo R, Squires R, Tarrant D, McMahan BJ. Chronic hepatitis B infection: a workshop consensus statement and algorithm. *J Fam Pract.* 2011;60:E1-8.
34. Squires RH, Duggan C, Teitelbaum DH, Wales PW, Balint J, Venick R, Rhee S, Sudan D, Mercer D, Martinez JA, Carter BA, Soden J, Horslen S, Rudolph JA, Kocoshis S, Superina R, Lawlor S, Haller T, Kurs-Lasky M, Belle SH for the Pediatric Intestinal Failure Consortium. Natural history of pediatric intestinal failure: Initial report from the pediatric intestinal failure consortium (PIFCon). *J Pediatrics* 2012;161(4):723-728. PMCID: PMC3419777
35. Shneider BL, Bosch J, de Franchis R, Emre SH, Groszmann RJ, Ling SC, Lorenz JM, Squires RH, Superina RA, Thompson AE, Mazariegos GV. Portal Hypertension in Children: Expert Pediatric Opinion on the Report of the Baveno V Consensus Workshop on Methodology of Diagnosis and Therapy in Portal Hypertension. *Pediatric Transplant.* 2012;16:426-37. PMID: 22409296 PMCID: N/A
36. Sundaram V, Shneider BL, Dhawan A, Ng VL, Im K, Belle S, Squires RH. King's College Hospital Criteria for Non-Acetaminophen Induced Acute Liver Failure in an International Cohort of Children. *J Pediatr.* 2013;162(2):319-323. PMCID: PMC3504621
37. Squires RH, Dhawan A, Alonso E, Narkewicz MR, Shneider BL, Rodriguez-Baez N, Dell Olio D, Karpen S, Bucuvalas J, Lobritto S, Rand R, Rosenthal P, Horslen S, Ng V, Subbaro G, Kerkar N, Rudnick D, Lopez MJ, Schwarz K, Romero R, Elisofon S, Doo E, Robuck PR, Lawlor S, Belle SH for the Pediatric Acute Liver Failure Study Group. Intravenous N-acetylcysteine in pediatric patients with non-acetaminophen acute liver failure: A placebo-controlled trial. *Hepatology.* 2013;57:1542-49. (PM3509266)
38. Ningappa M, Ashokkumar C, Ranganathan S, Schmitt L, Higgs BW, Sun Q, Branca M, Mazariegos G, Zeevi A, Abu-Elmagd K, Squires R, Rudolph J, Alissa F, Hakonarson H, Sindhi R. Mucosal plasma cell barrier disruption during intestine transplant rejection. *Transplantation.* 2012;94(12):1236-42 PMID: 23269450
39. Cronin D, Squires J, Squires R, Mazariegos G, Lantos JD. Ethics Rounds: Parental refusal of a liver transplant for a child with biliary atresia. *Pediatrics* 2013;131:141-46. PMID: 23266924
40. Bucuvalas J, Filipovich L, Yazigi N, Narkewicz MR, Ng V, Belle SH, Zhang S, Squires RH. Immunophenotype Predicts Outcome in Pediatric Acute Liver Failure. *J Pediatr Gastroenterol Nutr.* 2013;56:311-315 (PM3582763)
41. Lu BR, Zhang S, Narkewicz MR, Belle SH, Squires RH, Sokol RJ; Pediatric Acute Liver Failure (PALF) Study Group. Evaluation of the Liver Injury Unit Scoring System to Predict Survival in a Multinational Study of Pediatric Acute Liver Failure. *J Pediatr.* 2013;162(5):1010-1018. (PM3786160)
42. Leonis MA, Alonso EM, Im K, Belle SH, Squires RH for the Pediatric Acute Liver Failure Study Group. Chronic acetaminophen exposure in pediatric acute liver failure. *Pediatrics.*

- 2013;131:e740-e746. (PMC3581836)
43. Squires JE, Squires RH. A Review of Munchausen Syndrome by Proxy. *Pediatric Annals*. 2013;42:67-71 (PMID: 23556520)
 44. Molleston JP, Sokol RJ, Karnsakul W, Miethke A, Horslen S, Magee JC, Romero R, Squires RH, Van Hove JLK, for the Childhood Liver Disease Research and Education Network (ChiLDREN). Evaluation of the child with suspected mitochondrial liver disease. *J Pediatr Gastroenterol Nutr*. 2013;57(3):269-276 (PMC3810178)
 45. Sharma R, Crowley J, Squires RH, Bond GJ, Sindhi R, Mazariegos GV, Soltys KA. Neonatal acute liver failure complicated by patent ductus venosus: Diagnosis and Management. *Liver Transplantation* 2013;19(9):1049-52.
 46. Azhar N, Ziraldo C, Barclay D, Rudnick D, Squires RH, Vodovotz Y for the Pediatric Acute Liver Failure Study Group. Analysis of serum inflammatory mediators identifies unique dynamic networks associated with death and spontaneous survival in pediatric acute liver failure. *PLOS ONE*. 2013;8(11):e78202. (PMC3823926)
 47. Squires RH, Ng V, Ekong U, Hardikar W, Romero R, Emre S, Mazariegos G. Evaluation of the Pediatric Patient for Liver Transplantation: 2014 Practice Guideline by the American Association for the Study of Liver Diseases, American Society of Transplantation and the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition. *Hepatology*. 2014;60(1):362-398; and *J Pediatr Gastroenterol Nutr*. 2014;59(1):112-31
 48. Squires RH, Balint J, Horslen S, Wales P, Soden J, Duggan C, Li R, Belle SH for the Pediatric Intestinal Failure Consortium. Race Affects Outcome among Infants with Intestinal Failure. *J Pediatr Gastroenterol Nutr*. 2014;59:537-543. (PMC4176512)
 49. Schwarz KB, Dell Olio D, Lobritto S, Lopez J, Rodriguez-Baez N, Yazigi N, Belle SH, Lawlor S, Zhang S, Squires RH for the Pediatric Acute Liver Failure Study Group. An analysis of viral testing in non-acetaminophen pediatric acute liver failure. *J Pediatr Gastroenterol Nutr*. 2014;59(5):616. (PMC4305349)
 50. Sorensen LG, Neighbors K, Zhang S, Limbers CA, Varni JW, Ng VL, Squires RH, Alonso EM for the Pediatric Acute Liver Failure Study Group. Neuropsychological Functioning Health-Related Quality of Life: Pediatric Acute Liver Failure Study Group Results. *J Pediatr Gastroenterol Nutr*. 2015;60(1):75-83. (PMC4276462)
 51. Khan FA, Squires RH, MD, Litman H, Teitelbaum DH, Wales PW, Balint J, Venick R, Rhee S, Sudan D, Mercer D, Martinez JA, Carter BA, Soden J, Horslen S, Rudolph JA, Kocoshis S, Superina R, Jaksic T, Duggan C, for the Pediatric Intestinal Consortium. Predictors of Enteral Autonomy in Pediatric Intestinal Failure: A Multicenter Cohort Study. *J Pediatr* 2015;167(1):29-34. (PMC4485931)
 52. Alonso EM, James LP, Zhang S, Squires RH for the Pediatric Acute Liver Failure Study Group. Acetaminophen adducts detected in serum of pediatric patients with acute liver failure. *J Pediatr Gastroenterol Nutr* 2015;61(1):102-07. (PMC4540211)
 53. Shneider BL, de Ville de Goyet J, Leung D, Srivastava A, Ling SC, Duche M, McKiernan P, Superina R, Squires RH, Bosch J, Grozmann R, Sarin S, de Franchis R, Mazariegos G. Primary prophylaxis of variceal bleeding in children and the role of MesoRex Bypass—Summary of the Baveno VI Pediatric Satellite Symposium. *Hepatology* 2016;63:1368-1380 (PMID: 26725209)
 54. Shneider BL, Magee JC, Karpen SJ, Rand EB, Narkewicz MR, Bass LM, Schwarz K, Whittington PF, Bezerra JA, Kerkar N, Haber B, Rosenthal P, Turmelle PY, Molleston JP, Murray KF, Ng VL, Wang KS, Romero R, Squires RH, Aron R, Sherker A, Moore J, Ye W, Sokol RJ for the Childhood Liver Disease Research Network (ChiLDReN) Prospective Multicenter Analysis of Post-operative Total Serum Bilirubin as a Biomarker for Two Year

- Outcome After Hepatoportoenterostomy for Biliary Atresia. *J Pediatr* 2016;170:211-217 (PMC4826612)
55. Li R, Belle SH, Horslen S, Chen LW, Zhang S, Squires RH. Clinical course among pediatric cases of acute liver failure of indeterminate diagnosis. *J Pediatr* 2016;171:163-170. (PMC 4808594; PMID: 26831743)
 56. Ng VL, Leonis MA, Rudnick DA, Adeniji A, Belle SH, Squires RH for the Pediatric Acute Liver Failure Study Group. Characterization of children with acute liver failure with and without hepatic encephalopathy in the Pediatric Acute Liver Failure registry. *J Pediatr Gastroenterol Nutr* 2016;63:357-364. PMID: 27367788; (PMC4992416)
 57. Zamora R, Vodovotz Y, Abdul-Malak O, Mi Q, Almahmoud K, Namas R, Barclay D, Squires RH for the Pediatric Acute Liver Failure Study Group. Data-Driven Modeling for Precision Medicine in Pediatric Acute Liver Failure. *Molecular Medicine*. 2016;22:821-829 (PMID: 27900388; PMC5263056)
 58. Narkewicz M, Horslen S, Belle SH, Rudnick D, Ng V, Rosenthal R, Romero R, Loomes KM, Zhang S, Squires RH for the Pediatric Acute Liver Failure Study Group. Prevalence and Significance of Auto-antibodies in Children with Acute Liver Failure. *J Pediatr Gastroenterol Nutr* 2017;64:210-217 (PMID: 27496798; PMC5250572)
 59. Squires JE, Celik N, Soltys K, Mazariegos G, Morris A, Shneider B, Squires RH. Clinical variability after partial biliary diversion in familial intrahepatic cholestasis 1 deficiency. *J Pediatr Gastroenterol Nutr*. 2017;64:425-430 (PMID: 28045770)
 60. Soltys KA, Sindhi R, Soto-Gutiérrez A, Sada R, Haberman K, Gramignoli R, Crowley J, Quader MA, Deutsch M, Ashokkumar C, Tafaleng E, Shneider BL, Squires RH, Ranganathan S, Reyes-Mugica M, Dobrowolski SF, Mazariegos G, Elango R, Strom SC, Vockley J, Guha C, Fox IJ. Host conditioning and rejection monitoring in clinical hepatocyte transplantation. *J Hepatology*. 2017;66:987-1000 (PMID: 28027971, PMC5395353)
 61. Feldman AG, Sokol RJ, Hardison RM, Alonso EM, Squires RH, Narkewicz MR, Pediatric Acute Liver Failure Study Group. Lactate and lactate:pyruvate ratio in the diagnosis and outcomes of pediatric acute liver failure. *J Pediatr*. 2017 182:217-222 (PMID: 28088395, PMC5328928)
 62. Shneider BL, Moore J, Kerkar N, Magee J, Ye W, Karpen SJ, Kamath B, Molleston J, Bezerra JA, Murray K, Loomes K, Whittington PF, Rosenthal P, Squires RH, Guthery S, Arnon R, Schwarz KA, Turmelle Y, Sherker A or Doo E and Sokol RJ for the Childhood Liver Disease Research Network. Initial Assessment of the Infant with Neonatal Cholestasis – Is this Biliary Atresia? *PLoS One* 2017;12:e0176275 (PMID: 28493866)
 63. Javid PJ, Oron AP, Duggan C, Squires RH, Horslen SP, on behalf of the Pediatric Intestinal Failure Consortium. The Extent of Intestinal Failure-Associated Liver Disease in Patients Referred for Intestinal Rehabilitation is Associated with Increased Mortality: An Analysis of the Pediatric Intestinal Failure Consortium Database. *J Pediatr Surg*. 2017 Sep 5; [EPub ahead of print] (PMID: 28943136, PMC:)

Invited Published Papers/Reviews/Editorials (since 2005)

1. Squires RH. Autoimmune Hepatitis in Children. *Curr Gastroenterol Rep* 2004; 6:225-230.
2. Squires RH. From whence does biliary atresia arise. *Pediatr Transplant*. 2005;9:145-47.
3. Mazariegos G, Chen Y, Squires R. Biological and artificial liver support system in children: a new perspective. *Pediatr Crit Care Med*. 2005;6:616-17.
4. Mazariegos G, Soltys KA, Bond GJ, and Squires RH, Sindhi R. Isolated liver transplantation in infants with short gut syndrome: Is less better? *Liver Transplantation*

- 2006; 12:1040-41.
5. Squires RH. Living donor liver transplant in pediatric acute liver failure: An important option, but when do we use it? *J Pediatr Gastroenterol Nutr*. 2014;58(1):1-2.
 6. Squires RH. Expanded Neurologic Assessment in Pediatric Acute Liver Failure: An Important Initial Step. *J Pediatr Gastroenterol Nutr*. 2014;58(4):394-95
 7. Celik N, Squires RH, Vockley J, Sindhi R, Mazariegos G. Liver transplantation for maple syrup urine disease: a global domino effect. *Pediatr Transplantation* 2016;20:350-51

Chapters (since 2005):

1. Squires RH. Teitelbaum JE. Approach to the patient with hepatobiliary symptoms or signs. In: Rudolph's Pediatrics 21st ed. AM Rudolph, JIE Hoffman, CD Rudolph, eds., McGraw-Hill. 2002; 1477-1481.
2. Squires RH. Liver Failure, Complications of end-stage liver disease, Liver transplantation. In: Rudolph's Pediatrics 21st ed. AM Rudolph, JIE Hoffman, CD Rudolph, eds., McGraw-Hill. 2002; pp. 1511-1518;
3. Squires RH. Approach to the child with upper or lower gastrointestinal bleeding. In: Rudolph's Pediatrics 21st ed. AM Rudolph, JIE Hoffman, CD Rudolph, eds., McGraw-Hill. 2002; pp. 1371-1375.
4. Squires RH. Abdominal Masses. In: Pediatric Gastrointestinal Disease: Pathophysiology, Diagnosis, Management 3rd ed. W A Walker, PR Durie, JR Hamilton, JA Walker-Smith, JB Watkins, eds., BC Decker, Inc. 2000 ;pp.150-163.
5. Squires RH. Abdominal Masses. In: Pediatric Gastrointestinal Disease: Pathophysiology, Diagnosis, Management 4th ed. W A Walker, PR Durie, JR Hamilton, JA Walker-Smith, JB Watkins, eds., BC Decker, Inc.
6. Alonso E, Squires R, Whittington P. Acute Liver Failure. In: Liver Disease in Children 3rd Edition. FJ Suchy, RJ Sokol, WF Balistreri, eds. Cambridge University Press. 2007; pp.71-96
7. Bond GJ, Felmet KA, Jaffe R, Soltys KA, Squires RH, Martin D, Sindhi R, Abu-Elmagd K, Mazariegos GV. Intestinal and Multivisceral Transplantation. In: Pediatric Intensive Care 4th Edition. Chief Editor DG Nichols. Wolters Kluwer/Lippincott Williams and Wilkins 2008; 1550-1561.
8. Norton KI, Benkov KJ, Squires RH. Cross-sectional imaging: ultrasonography, computed tomography, and magnetic resonance imaging—utility in the analysis of abdominal masses and other gastrointestinal conditions. In: Walker's Pediatric Gastrointestinal Disease, 5th ed. RE Kleinman, IR Sanderson, O Goulet, PM Sherman, G Mieli-Vergani, BL Shneider, eds. BC Decker. 2008; pp 1431-52.
9. Rivera MR, Squires RH, Davis PJ. Essentials of hepatology. In: A Practice of Anesthesia for Infants and Children. 4th ed. CJ Cote, J Lerman, ID Todres, eds. Saunders/Elsevier. 2009.
10. Squires RH. Intestinal Failure. American Society for Parenteral and Enteral Nutrition: Core Curriculum. 2010.
11. Squires RH. Approach to the infant and child with signs of liver disease. In: Rudolph's Pediatrics, 22nd ed. C Rudolph, G Lister, A Gershon, L First, A Rudolph, eds. McGraw-Hill. 2011; 1495-1501.
12. Rivera MR, Squires RH, Davis PJ. Essentials of hepatology. In: A Practice of Anesthesia for Infants and Children. 5th ed. CJ Cote, J Lerman, B Anderson, eds. Saunders/Elsevier. 2012.

13. Squires R, Alonso E. Acute Liver Failure. In: Liver Disease in Children 4th Edition. FJ Suchy, RJ Sokol, WF Balistreri, eds. Cambridge University Press. 2014;32-50
14. Squires RH. Acute Liver Failure. In: Diseases of the Liver in Children. KF Murray, S Horslen, eds. Springer. 2014;445-461.
15. Squires RH, Iyer KR. Intestinal Failure. In: The A.S.P.E.N. Pediatric Nutrition Support Core Curriculum. 2nd ed. MR Corkins, J Balint, E Bobo, S Plogsted, JA Yaworski, eds. A.S.P.E.N. 2015:427-440.
16. Alonso EM, Squires RH. Acute Liver Failure In: Diseases of the Liver and Biliary System in Children, 4th Edition, ed: Kelly D. 2017 pp. 271-287
17. Squires JE, Squires RH, Davis PJ. Essentials of hepatology. In: A Practice of Anesthesia for Infants and Children. 6th ed. CJ Cote, J Lerman, B Anderson, eds. Saunders/Elsevier.
18. Squires JE, Squires RH. Approach to the infant and child with signs of liver disease. In: Rudolph's Pediatrics, 22nd ed., eds. McGraw-Hill.
19. Squires RH. Viral Causes of Acute Liver Failure. In: Viral Hepatitis in Children: Prevention and Management. MH Chang, KB Schwarz, eds. Springer

Abstracts (since 2005):

1. Mazariegos G, Sindhi R, Soltys K, Seward L, Smith A, Macedo C, Chen Y, Fazzalore T, McGhee W, Squires R. Rabbit anti-thymocyte globulin (rATG) induction therapy in pediatric steroid free liver transplantation: one-two year follow-up. AST. Seattle, WA. May 2005
2. Mazariegos G, Morton H, Strauss K, Squires R, Finegold D, Virgi M, Cropcho L, Puffengerger E, McGhee W, Seward L, Sindhi R. Liver transplantation for maple syrup urine disease (MSUD): protocol and preliminary results. AST. Seattle, WA. May 2005.
3. Kowalski LA, Nucci A, Seward L, Soltys K, Yaworski JA, Barksdale EM, Squires R, Mazariegos G. Nutritional Autonomy after Pediatric Intestinal Transplantation. ASPEN. Dallas, 2006.
4. Nucci A, Kowalski LA, Seward L, Sindhi RK, Yaworski JA, Barksdale EM., Squires R, Mazariegos G. Effect of Induction Immunosuppressant Treatment on Anthropometric Indices in Pediatric Intestinal Transplantation. ASPEN. Dallas, February 2006.
5. Nucci A, Burns C, Lowery K, Armah T, Strohm S, Bond G, Mazariegos G, Squires R. Interdisciplinary Management of Pediatric Intestinal Failure: a 10-year Review of Rehabilitation and Intestinal Transplantation. DDW—SSAT Plenary Session. May, 2007. Washington DC.
6. Lowery K, Nucci A, Squires R, Bond G, Burns C, Alissa F, Soltys K, Sindhi R, Mazariegos G. Interdisciplinary Management of Children with Intestinal Failure: a 10 Year Review. International Pediatric Transplant Association. March, 2007. Cancun, Mexico.
7. Mazariegos G, Machaidze Z, Soltys K, Bond G, Squires R, Sindhi R. Long-term outcome with rATG induction and steroid-free immunosuppression in pediatric liver transplantation. International Liver Transplantation Society. 13th Annual Congress. June, 2007. Rio de Janeiro, Brazil.
8. Rudnick D, Dietzen D, Shepherd R, Turmelle YP, Zhang S, Squires R and the Pediatric Acute Liver Failure Study Group. Elevated serum alpha-amino butyrate:leucine ratio may predict spontaneous survival in pediatric acute liver failure. AASLD. Boston, MA. November, 2007
9. Mazariegos GV, Macaidze Z, Soltys K, Bond G, Squires R, Sindhi R. Long-term outcome with RATG induction and steroid-free immunosuppression in pediatric liver transplantation. AASLD. Boston, MA, November, 2007

10. Narkewicz M, Dell Olio D, Karpen SJ, Krug S, Murray KF, Schwarz KB, Yazigi N, Zhang S, Belle SH, and the Pediatric Acute Liver Failure Study Group. Pattern of diagnostic evaluation for the causes of pediatric acute liver failure (PALF): opportunities for quality improvement. AASLD. Boston, MA. November, 2007.
11. Mazariegos G, Khanna A, Gibson KM, Morton H, Strauss K, Finegold D, Cropcho L, Virji M, Vockley J, Machaidze Z, Soltys K, Bond G, Squires R, Shneider B, Romero R and Sindhi R. Domino liver transplantation (LT) in children and adults with Maple Lyrup Urine Disease (MSUD). International Transplant Congress. Sydney, Australia. 2008
12. Schwarz KB, Dell Olio D, Lobritto S, Lopez J, Rodriguez-Baez N, Yazigi N, Belle S, Lawlor S, Zhang S, Squires R, for the Pediatric Acute Liver Failure Study Group (PALFSG). An analysis of viral testing in non-APAP pediatric acute liver failure (PALF). DDW-AASLD, Chicago, IL. 2009
13. Lu BR, Zhang S, Narkewicz MR, Belle SH, Squires R, Sokol RJ. Validation of a scoring system to predict survival in 455 patients with pediatric acute liver failure. AASLD, Boston, MA. November 2009
14. Martin JM, Hoyson M, Squires RH. Ethanol lock therapy for the prevention of catheter related blood stream infections in pediatric patients. IDSA, Vancouver, BC Canada. October, 2010
15. Bucuvalas JC, Yazigi N, Filipovich L, Belle SH, Ng VL, Narkewicz MR, Lopez MJ, Squires RH. Immunophenotype predicts outcome in pediatric acute liver failure. AASLD, Boston MA 2010
16. Leonis MA, Alonso E, Im K, Belle S, Squires R and the PALF study group. Chronic acetaminophen exposure in pediatric acute liver failure (PALF). AASLD, Boston MA 2010.
17. Sundaram V, Shneider B, Dhawan A, Ng V, Im K, Belle S, Squires R and the PALF study group. King's College Hospital criteria for acute liver failure in an international cohort of 895 children. AASLD, Boston MA 2010.
18. Narkewicz MR, Dhawan A, Leonis MA, Rodriguez-Baez N, Zhang S, Belle SH, Squires RH and the PALF study group. Systematic screening in "Indeterminate" Pediatric ALF reveals a high prevalence of autoantibodies. AASLD, Boston, MA 2010
19. Squires RH, Dhawan A, Alonso EM, Narkewicz MR, Rodriguez-Baez N, Kelly D, Bucuvalas JC, Karpen SJ, Shneider B, Rand E, Lobritto S, Rosenthal P, Murray KF, Kerkar N, Ng V, Subbarao G, Rudnick DA, Lopez MJ, Schwarz KB, Romero R, Elisofon SA, Robuck PR, Lawlor S, Belle SH. A Prospective Clinical Trial Shows that Intravenous N-acetylcysteine (NAC) Does Not Improve Survival in Pediatric Patients with Non-Acetaminophen Acute Liver Failure. DDW, AASLD Plenary Session, Chicago, IL. May 2011.
20. Squires RH, Duggan C, Teitelbaum DH, Wales PW, Balint J, Venick R, Rhee S, Sudan D, Mercer D, Martinez JA, Carter BA, Soden J, Horslen S, Rudolph JA, Kocoshis S, Superina R, Belle SH for the Pediatric Intestinal Failure Consortium (PIFCon). Pediatric Intestinal Failure in the Intestinal Transplant Era: A Retrospective Review of 272 Infants. Gastroenterol. 2011;140 (5, Supp 1); S-79 DDW, oral presentation, Chicago, IL, May 2011
21. Narkewicz M, Ng V, Romero R, Horslen S, Rudnick D, Zhang S, Belle S, Squires RH. High prevalence of autoantibody (autoAB) positivity in children with Pediatric Acute Liver Failure (PALF). NASPGHAN, Salt Lake City, UT. October 2012
22. Molleston JP, Sokol RJ, Karnsakul WW, Miethke AG, Magee JC, Squires RH, VanHove J. for the ChiLDREN Research Network. Evaluation guidelines for suspected mitochondrial hepatopathies. NASPGHAN, Salt Lake City, UT, October 2012
23. Azhar N, Ziraldo C, Barclay D, Squires RH, Vodovotz Y for the Pediatric Acute Liver Failure Study Group. Dynamic Bayesian network analysis of serum inflammatory mediators over

- time defines patterns that distinguish pediatric acute liver failure patients who spontaneously survive from those who die. *Hepatology* 2012;56(Supp):957A. AASLD. Boston, MA. November 2012
24. Ng VL, Leonis MA, Rudnick DA, Adeniji A, Belle SH, Squires RH and the Pediatric Acute Liver Failure Study Group. Characterization of children with acute liver failure with and without hepatic encephalopathy in the Pediatric Acute Liver Failure registry. *Hepatology* 2012;56(Supp):205A. AASLD, Boston, MA. November 2012
 25. Rudnick DA, Loomes KM, Shneider B, Im KA, Belle SH, Squires RH for the Pediatric Acute Liver Failure Study Group. Examination of King's College Hospital Criteria in Pediatric Acute Liver Failure Study Group Patients Who Underwent Liver Transplantation. *Hepatology* 2012;56(Supp): 734A. AASLD. Boston, MA. November 2012
 26. Sorensen LG, Neighbors K, Zhang S, Limbers CA, Varni JW, Ng VL, Squires RH, Alonso EM. Functional outcomes after pediatric acute liver failure. *Pediatric Academic Society/Society for Pediatric Research*. Washington, DC. May, 2013.
 27. Khan FA, Squires RH, MD, Litman H, Teitelbaum DH, Wales PW, Balint J, Venick R, Rhee S, Sudan D, Mercer D, Martinez JA, Carter BA, Soden J, Horslen S, Rudolph JA, Kocoshis S, Superina R, Jaksic T, Duggan C, for the Pediatric Intestinal Consortium. Predictors of Enteral Autonomy in Pediatric Intestinal Failure: A Multicenter Cohort Study. *American Academy of Pediatrics National Conference and Exhibition*. AAP; Section on Surgery. Oral presentation. Boston, MA. October, 2014
 28. Zamora R, Squires RH, Almahmoud K, Mi Q, Abdul-Malak O, Barclay D, Yin J, Vodovotz Y for the Pediatric Acute Liver Failure Study Group. Insights into dynamic inflammatory effects of acetaminophen in pediatric acute liver failure from combined clinical, In Vitro, and In Silico studies. *International Conference on Complexity of Acute Illness*. Charlottesville, VA. August, 2014
 29. Monique L. Goldschmidt, MD, Christopher Duggan, MD, Heather J. Litman, PhD, Jane Balint, MD, Beth A. Carter, MD, Simon Horslen, MD, Tom Jaksic, MD, Faraz A. Khan, MD, Samuel Kocoshis, MD, J. Andres Martinez, MD, David Mercer, MD, Susan Rhee, MD, Jeffrey A. Rudolph, MD, Jason Soden, MD, Debra Sudan, MD, Riccardo Superina, MD, Daniel H. Teitelbaum, MD, Robert Venick, MD, Paul W. Wales, MD, Robert H. Squires, MD, Conrad Cole, MD for the pediatric intestinal failure consortium (PIFCon). Variables Predictive of Intestinal Transplantation in Pediatric Intestinal Failure: A Multicenter Cohort Study. *International Pediatric Intestinal Failure and Rehabilitation Symposium*. Atlanta, GA. Sept 2014
 30. Toney NA, Squires RH, Belle SH, Hardison SH, Bell MJ. Hepatic Encephalopathy in Children with Acute Liver Failure—Utility of Serum Neuromarkers. AASLD. Boston, MA. Nov 2014.
 31. Zamora R, Vodovotz Y, Abdul-Malak O, Mi Q, Almahmoud K, Namas R, Barclay D, Squires RH for the Pediatric Acute Liver Failure Study Group. Data-Driven Modeling for Precision Medicine in Pediatric Acute Liver Failure. AASLD, Boston, MA. Nov 2014
 32. El-Gharbay A, Sebastian J, Ghaloul-Gonzales L, Mroczkowski J, Goldstein A, Venkat V, Doborowski S, Squires R, Vockley J. LARS mutations in non-Irish travelers: an under-recognized multi-system disorder characterized by infantile hepatopathy during physiological stress. *American College of Medical Genetics*. Salt Lake City, UT. March 26, 2015.
 33. Benjamin L. Shneider, John Magee, Nanda Kerkar, Jeffery Moore, Wen Ye, Saul Karpen, Peter Whittington, Jorge Bezerra, Paula Hertel, Jean Molleston, Kasper Wang, Henry Lin, Robert Squires, Philip Rosenthal, Vicky Ng, Yumirle Turmelle, Kathleen Schwarz, Averell

- Sherker, Ronald Sokol for ChiLDReN. Prospective Analysis of Presenting Features of Neonatal Cholestasis – Limitations in Predictive Models of Biliary Atresia. NASPGHAN. Oral presentation. Washington, DC. October, 2015.
34. Feldman AG, Sokol RJ, Hardison R, Alonso EM, Squires RH, Narkewicz MR for the Pediatric Acute Liver Failure Study Group. Screening for mitochondrial disease in pediatric acute liver failure: The role of lactate and pyruvate. AALSD. Poster presentation. San Francisco, CA November, 2015. Hepatology. 2015;62:1044A (Poster of Distinction)
 35. Celik N, Ganoza A, Vyas F, Squires JE, Venkat V, Bond GJ, Soltys KA, Sindhi R, Squires RH, Humar A, Mazariegos GV. Long-term outcomes in pediatric live-donor liver transplantation. American Transplant Congress, June 2016. Boston, MA
 36. Squires JE, Celik N, Soltys K, Mazariegos G, Morris A, Shneider B, Squires RH. Clinical variability after partial biliary diversion in familial intrahepatic cholestasis 1 deficiency. Poster Presentation. World Congress of Pediatric Gastroenterology, Hepatology and Nutrition. October 2016. Montreal, Canada.
 37. Squires JE, Celik N, Soltys K, Mazariegos G, Morris A, Shneider B, Squires RH. Clinical variability after partial biliary diversion in familial intrahepatic cholestasis 1 deficiency. Poster Presentation. AASLD, November, 2016. Boston, MA.
 38. Leonis, M. L., Miethke, A. G., Fei, L., Hardison, R. M., Belle, S. H., Bleesing, J. J., Filipovich, L. Bucuvalas, J., Squires, R. H. for the Pediatric Acute Liver Failure Study Group. Unsupervised clustering of immune activation markers at presentation in pediatric acute liver failure reveals 4 markers associated with short-term survival with native liver. Poster Presentation. AALSD, November, 2016. Boston, MA
 39. Sorensen LG, Neighbors K, Hardison RM, Varni JW, Ng V, Squires RH, Alonso EM for the Pediatric Acute Liver Failure Study Group. Neurocognitive and health related quality of life outcomes in the first year after pediatric acute liver failure. Oral Presentation, Transplant Plenary. AASLD, November 2016. Boston, MA.
 40. Teckman, Conlon, Rosenthal, Bass, Murray, Wang, Magee, Sokol, Karpen, Bezerra, Molleston, Squires RH, Kamath, Guthery, Shneider, Loomes, Goodrich, Spino. Death is Rare and Progression to Transplant is Slow, Despite a Burden of Portal Hypertension, in Longitudinal Outcomes of Alpha-1-Antitrypsin Deficiency from the ChiLDReN Cohort. Oral Presentation, Parallel 12: Metabolic Liver Disease AALSD, November, 2016. Boston, MA
 41. McGhee W, McHugh C, Mazariegos G, Squires R, Remaley L, Michaels M. Improving immunization compliance in pediatric transplant candidates. International Pediatric Transplant Association. Poster. May, 2017. Barcelona, Spain.
 42. Squires JE, Rudnick DA, Hardison RM, Horslen S, Ng VL, Alonso EM, Belle SH, and Squires RH for the Pediatric Acute Liver Failure Study Group, Liver Transplantation in Pediatric Acute Liver Failure (PALF): Practices and Patient Characteristics. AALSD Oral Presentation, Young Investigator Travel Award. October, 2017. Washington, D.C.
 43. Squires JE, Miethke AG, Hawthorne K, Van Hove J, Molleston JP, Kerkar N, Squires RH, Horslen S, Valencia CA, Barasa N, Alonso E, Bezerra J, Kamath B, Karpen SJ, Loomes KM, Rosenthal P, Shneider BL, Teckman J, Wang KS, McGee JC, and Sokol RJ for the ChiDReN Network. Spectrum of clinical presentation and genetic causes of mitochondrial hepatopathies AASLD Poster Presentation. October, 2017. Washington, D.C.
 44. Mitchell E, Sarangarajan R, McKiernan P, Soltys K, Squires RH, Strauss K, Mazariegos G, Squires JE. Hepatic parenchymal injury in Crigler-Najjar. AASLD Poster Presentation. October, 2017. Washington, D.C. and NASPGHAN Nov 2017. Las Vegas, NV
 45. Mitchell E, Loomes KM, Squires RH, Goldberg D. Variability in acceptance of organ offers by pediatric liver transplant centers and its impact on waitlist mortality. AASLD Poster

- Presentation. October 2017. Washington, D.C. and NASPGHAN 2017, Las Vegas NV
46. Thompson R, Kelly D, McClean P, Miethke A, Soufi N, Rivet C, Jankowska I, Cara Mack C, Karthikeyan P, Gu J, Jaecklin T, Squires RH, Loomes K. Phase 2 open-label efficacy and safety study of the apical sodium-dependent bile acid transporter inhibitor maralixibat in children with progressive familial intrahepatic cholestasis: 48-week interim analysis. AASLD Oral Presentation. October 2017. Washington, D.C.
 47. Chang-Chou HC, Bryce CL, Zenarosa GL, Tomko H, Shneider BL, Squires RH, Roberts MS. The pediatric end-stage liver disease (PELD) score: a poor predictor of mortality in pediatric liver transplant candidates. AASLD Poster Presentation. October 2017. Washington, D.C
 48. Critelli K, McKiernan P, Sarangarahan R, Squires RH, Siebold L, Squires JE. GGT discordance in neonatal cholestasis: a case series of three patients. NASPGHAN Poster Presentation. November 2017. Las Vegas, NV
 49. Shneider BL, Spino C, Kamath B, Magee JC, Whittington PF, Alonso E, Setchell K, Miethke A, Molleston JP, Mack CL, Squires RH, Murray KF, Loomes KM, Rosenthal P, Karpen SJ, Leung DH, Guthery S, Thomas D, Sherker AH, Sokol RJ, For the Childhood Liver Disease Research Network (ChiLDRen). Results of ITCH, A Multi-center Randomized Double-blind Placebo-controlled Trial of Maralixibat, an Intestinal Bile Salt Transport Inhibitor, for Pruritus in Alagille Syndrome. AASLD Presidential Plenary October 2017. Washington, DC and NASPGHAN Oral presentation. Las Vegas, NV 2017
 50. Kamath BM, Shneider BL, Spino C, Magee JC, Whittington PF, Setchell KD, Methke A, Molleston FP, Mack CL, Squires RH, Murray KF, Loomes KM, Rosenthal P, Karpen SJ, Leung DH, Guthrey SL, Thomas D, Sherker AH, Sokol RJ. Unraveling the relationship between itching, scratch scales and biomarkers of children with Alagille Syndrome. AASLD. Poster presentation. October 2017. Washington, D.C.
 51. Berauer JP, Mezina A, Okou D, Sabo A, Hegde M, Chopra P, Perlmutter D, Bull L, Thompson R, Spinner N, Loomes K, Rajagopalan R, Guthery SL, Moore B, Shneider BL, Kamath BM, Molleston JP, Bezerra JA, Murray KF, Whittington PF, Rosenthal P, Squires RH, Sokol RJ, Wang K, Magee JC, Biel C, Sherker AH, Doo E and Saul J. Karpen SJ. Identification of PKD1L1 Gene Variants in Biliary Atresia Patients with Structural Malformations (BASM). Late Breaking Abstract. Oral Presentation. AASLD, Washington, D.C.

Other Publications (since 2005):

1. Squires RH, Crumrine PK, Zitelli BJ. "Drug-Associated Hepatic Disease" Pediatric UPDATE program. Volume 26. April 2006 (audio tape)
2. Squires RH. Recognition and referral for pediatric acute liver failure. Audio-Digest Gastroenterology. Volume 24, Issue 7. July 28, 2010.
3. Squires RH. Acute liver failure in children: Etiology and evaluation. UpToDate 2012
4. Squires RH. Acute liver failure in children: Management. UpToDate. 2012

PROFESSIONAL ACTIVITIES (selected)

Teaching:

International Meetings

1. Management of Acute Liver Failure in Children. World Congress of Gastroenterology. Paris,

- France. July, 2004
2. Epidemiology of Acute Liver Failure in Children. Joint ESPGHAN and NASPGHAN Single Topic Conference on Acute Liver Failure in Children. London, England. September, 2005
 3. Metabolic causes of fulminate hepatic failure. 4th Orphan Disease Symposium: Liver and Liver Cell Transplantation in Inborn Errors of Metabolism. Brussels, Belgium. January, 2006.
 4. Global Etiology of Acute Liver Failure. World Congress of Pediatric Gastroenterology. Iguazu Falls, Brazil. August, 2008
 5. Management of Acute Liver Failure. World Congress of Pediatric Gastroenterology. Iguazu Falls, Brazil. August 2008.
 6. Etiologic Factors of Hyper-acute and Acute Liver Failure. Symposium: "Acute Liver Failure: Neurological aspects of Management". King's College Hospital, London, England. September, 2012
 7. Liver Transplant Decisions in Pediatric Acute Liver Failure: Managing Uncertainty. Keynote Speaker, Studies in Pediatric Liver Transplantation (SPLIT) Annual Meeting. Toronto, Alberta, CA. September 26, 2013.
 8. Use of non-selective beta-blockers in children with portal hypertension: Why? Why not? Baveno VI Pediatric Satellite Meeting: Controversies in the management of varices in children—an international forum. Baveno, Lake Maggiore, Italy. April 11-12, 2015
 9. Acute Liver Failure in Children: A Brief History of Time. World Congress. Pediatric Gastroenterology, Hepatology and Nutrition. Montreal, Canada. October 6-9, 2016
 10. Acute liver failure. Breakfast Session. World Congress. Pediatric Gastroenterology, Hepatology and Nutrition. Montreal, Canada. October 6-9, 2016

National Meetings / Invited Speaker.

1. Pediatric Fatty Liver Disease. AASLD/NASPGN Symposium. American Association for the Study of Liver Disease. Dallas, TX. Nov. 2001.
2. Autoimmune Hepatitis. AASLD Clinical Symposium on Chronic Hepatitis in Children. DDW. New Orleans, LA. May, 2004.
3. Epidemiology and prognosis of acute liver failure in the U.S. AASLD/NASPGHAN Pediatric Symposium. AASLD. Boston, MA. October 2004
4. Metabolic liver disease presenting as acute liver failure. AASLD/Alpha-1 Antitrypsin Symposium. AASLD. Boston, MA. October 2004.
5. Autoimmune hepatitis presenting as acute liver failure. Focused Study Group: Pathogenesis of Autoimmune Hepatitis in Children and Adults. AASLD. Boston, MA. 2004.
6. Etiology, Management and Outcome of Acute Liver Failure in Children. Pediatric Grand Rounds, Children's Hospital, Seattle, WA February, 2005
7. Controversies and Future Directions of Pediatric Endoscopy. NASPGHAN Annual Meeting. Salt Lake City, UT. October, 2005
8. Acute liver failure in children. Second Annual Pediatric Gastroenterology Symposium. The Children's Hospital, Cleveland Clinic. Cleveland, OH. November, 2005.
9. Meet the Professor Rounds. "Drugs and Acute Liver Failure". AASLD Annual Meeting. San Francisco, CA. November, 2005.
10. Liver Transplant in Maple Syrup Urine Disease. MSUD Symposium. Decatur, GA. July 2004.
11. Acute Liver Failure in Children. Pediatric Grand Rounds. St. Christopher's Hospital, Drexel University. February, 2006
12. Meet the Professor. "Cholestasis in Children". DDW. Los Angeles, CA. May, 2006.
13. Epidemiology of Acute Liver Failure in Children. NIDDK Acute Liver Failure Symposium. Bethesda, MD. December 2006.

14. Intestinal failure. Pediatric Grand Rounds. University of West Virginia. Morgantown, VA. October 2007.
15. Do we have the right business model to support general pediatrics in 2015? Section on Administration and Practice Management, American Academy of Pediatrics, National Conference and Exhibition. San Francisco, CA. November 2007
16. Acute Liver Failure in Children. Pediatric Grand Rounds. Children's Hospital of Philadelphia, Philadelphia, PA. December, 2007.
17. Intestinal failure and rehabilitation. GI Grand Rounds. Children's Hospital of Philadelphia. Philadelphia, PA. December, 2007.
18. Acute Liver Failure in Children. Transplant Grand Rounds. Mt. Sinai Hospital. New York. March 2008.
19. Autoimmune Hepatitis in Children and Acute Liver Failure in Children. Pediatric Liver Symposium, American Liver Foundation. Seattle, WA. April 2008.
20. PTU toxicity and acute liver failure in children. Hepatic Toxicity Following Treatment for Pediatric Graves Disease. NIH-NICHD. Rockville, MD. October 2008.
21. Intestinal failure. Pediatric Grand Rounds. Children's Hospital. University of West Virginia, Charleston, WV. January, 2009
22. Overview of Intestinal Failure in Children. Nutrition Week; American Society of Parenteral and Enteral Nutrition. New Orleans, LA. February, 2009
23. Intestinal Adaptation. Digestive Disease Center. Baylor College of Medicine, Texas Children's Hospital. Houston, TX. March, 2009.
24. Acute Liver Failure: Early Assessment. NASPGHAN Annual Meeting, Washington, DC. November, 2009
25. Improving GI Office Access. NASPGHAN Annual Meeting. Washington, D.C. November 2009
26. Acute liver failure in children. Pediatric Grand Rounds. SUNY-Downstate. New York, New York. March, 2010
27. PIFCon Update. 6th International Pediatric Intestinal Failure and Rehabilitation Symposium. Chicago, IL. September, 2010.
28. Nutritional support and intestinal adaptation. GI-Nutrition Colloquium, Emory University. October, 2010.
29. NASPGHAN Annual Meeting, New Orleans, LA. October, 2010.
 - a. Meet the professor breakfast: Clinical and Translational Research in Liver Disease
 - b. Single Topic Conference, Break-out session: Pre-approval process in consortia organization and practices.
 - c. Clinical Practice Forum: Healthcare in Transition: How will the Pediatric Gastroenterologist Respond?
30. Celiac disease. Grand Rounds. St. Vincent Health System. Erie, PA. August, 2011.
31. The ALT is elevated, now what? Texas Pediatric Society, Houston, Texas. September, 2011
32. Practice management for pediatric sub-specialists. Seminar Presentation. American Academy of Pediatrics, Boston, October, 2011.
33. Fatty Liver Disease. Section on Gastroenterology Program, American Academy of Pediatrics, Boston, October, 2011
34. How to do Maintenance of Certification. NASPGHAN Annual Meeting, Orlando, October, 2011
35. Coordinating Clinical Research. Mead-Johnson/NASPGHAN 3rd Year Fellows Conference. Scottsdale, AZ. January 21, 2012
36. Study and Clinical Trial Design: Lipid Strategies for Parenteral Nutrition Associated Liver Disease in Children. Food and Drug Administration (FDA): Gastroenterology Regulatory Endpoints and the Advancement of Therapeutics (GREAT) Workshop. Trial Design Issues in

- Parenteral Nutrition Associated Liver Disease and Cholestasis. College Park, MD. September, 2012
37. Acute Liver Failure. Pediatric Grand Rounds, the Floating Children's Hospital at Tufts University Medical Center. October 2012
 38. Acute liver failure. Pediatric GI division lecture. St. Louis Children's Hospital. November 2012
 39. Celiac disease. House-staff noon lecture. St. Louis Children's Hospital. November 2012
 40. Acute Liver Failure. Hepatology Rounds. Cincinnati Children's Hosp. Cincinnati, OH May 2013
 41. Intestinal Failure. GI Grand Rounds. Cincinnati Children's Hosp. Cincinnati, OH May 2013
 42. Acute Liver Failure. GI Grand Rounds. Seattle Children's Hosp. Seattle. WA May 2013
 43. Acute Liver Failure. Pediatric Grand Rounds, Daniel Miller Memorial Lecture. Children's Mercy Hospital, Kansas City, MO August 2013
 44. Intestinal failure. GI Grand Rounds. Children's Mercy Hospital, Kansas City, MO. August 2013.
 45. Intestinal failure: Outcome and Management. Pediatric GI Grand Rounds. Egleston Children's Hospital. Emory University. September 17, 2013
 46. Controversies in Pediatric Acute Liver Failure. NASPGHAN Annual Meeting. Chicago, IL. October 12, 2013.
 47. Acute Liver Failure: Managing Uncertainty. Pediatric GI Rounds. Children's Hospital Colorado. Denver, CO. October 16, 2013
 48. Acute Liver Failure: Diagnosis and Management. GI Rounds. Ann & Robert H. Lurie Children's Hospital of Chicago. November 20, 2013
 49. Acute Liver Failure. GI Rounds. Riley Children's Hospital. Indianapolis, IN. January 29, 2014.
 50. Acute Liver Failure. GI Rounds. University of California, San Francisco. March 12, 2014
 51. When is a liver too sick to recover? Whole Liver Replacement Summit, Chicago, IL. April 30, 2014
 52. Fatty Liver Disease in Children: What is the big deal? Grand Rounds. Cook Children's Hospital. Ft. Worth, Texas. May 13, 2014.
 53. Liver Transplant decisions in PALF. GI Rounds. Children's Hospital of Philadelphia. Philadelphia, PA. May 20, 2014
 54. Liver Transplant Decisions in PALF. GI Rounds. St. Louis Children's Hospital. St. Louis, MO. June 11, 2014.
 55. Drug-Induced Liver Injury: Challenges and Opportunities. NASPGHAN Annual Meeting. October 25, 2014.
 56. Controversies in Pediatric Acute Liver Failure. AASLD. November 9, 2014. Boston, MA
 57. Intestinal Failure and Rehabilitation: Transition from a Sprint to a Marathon. James A. Wright, MD Memorial Lectureship. Children's of Alabama. University of Alabama, Birmingham. Birmingham, AL. March 12, 2015.
 58. Advances in Neonatal and Pediatric Nutrition, San Francisco, CA August 3-5, 2015
 - a. Feeding the child with short bowel syndrome
 - b. Pediatric Intestinal Failure Consortium: What did we learn?
 59. Acute Liver Failure. 3rd Annual James Ted Engle Pediatric Liver Transplant Lectureship. Cleveland Clinic. Cleveland, OH. October 19, 2016

GRANT PROJECT/SUPPORT

ONGOING WORK

ACTIVE

*U01 DK072146 (Squires) 9/15/2005-8/31/2017 6.00 calendar
NIH/NIDDK

A Multi-center Group to Study Acute Liver Failure in Children

The goal of this project is to improve short- and long-term outcomes for pediatric acute liver failure (PALF) through a better understanding of patient phenotypes, reassessment of risk classifications, and associating early events to outcome at one year.

U01 DK062466 (Squires) 9/15/2002-5/31/2019 3.00 calendar
NIH/NIDDK

The Pittsburgh Cholestatic Liver Disease Consortium

This is a renewal application from the Childhood Liver Disease Research and Education Network (ChiLDREN). It proposes investigations to analyze response to surgery in biliary atresia and to develop a novel therapy for a genetic form of liver disease.

No # (Perlmutter) 1/1/2016 -12/31/2017 1.20 calendar
Washington University St. Louis

Carbamazepine for Severe Liver Disease due to Antitrypsin Deficiency

The overall objective of this proposal is to determine whether CBZ could be an effective treatment for liver disease due to AT deficiency in humans. Patients with compensated cirrhosis due to homozygous AT deficiency will be treated with CBZ for 12 months in a randomized, double-blinded, placebo-controlled trial.

U01 DK082864 (Belle) 7/1/2015-6/30/2020 0.60 calendar
NIH

Hepatitis B Clinical Research Network - Data Coordinating Center

This application proposes a Multi-Center Group to study chronic hepatitis B infection to examine natural history and immunopathogenesis.

U01DK062456-14S1 (Magee) 6/1/2015-5/31/2019 0.12 calendar
NIH / The Regents of the University of Michigan (per patient basis)

Childhood Liver Disease Research Network Data Coordinating Center

The Evaluation of the Intestinal Bile Acid Transport (IBAT) Inhibitor Lum001 In The Reduction of Pruritus in Alagille Syndrome, A CHolestatic Liver Disease (*"ITCH"*)

Clinical Trial No # (SQUIRES) 9/30/2014 -8/31/2017 0.12 calendar
Lumena Pharmaceuticals Inc.

Open Label Study of the Efficacy and Long Term Safety of LUM001, an Apical Sodium-Dependent Bile Acid. Transporter Inhibitor (ASBTi), in the Treatment of Cholestatic Liver Disease in Pediatric Patients with Progressive Familial Intrahepatic Cholestasis (INDIGO STUDY)

This is a drug trial study.

Clinical Trial No # (SQUIRES) 6/1/2017- 5/31/2021 0.12 calendar
AbbVie Inc.

An Open-Label, Multicenter Study to Evaluate the Pharmacokinetics, Safety, and Efficacy of Glecaprevir/Pibrentasvir in Pediatric Subjects with Genotypes 1 – 6 Chronic Hepatitis C Virus (HCV) Infection

This is a drug trial study.

UH3UH3 Supplemental (Taylor) 7/1/2016-6/30/2017 0.12 calendar
NIH

Creating models of rare childhood liver diseases using the human, liver-on-a-chip

The proposed supplement will focus initially on *POLG* mutations that cause Alpers Huttenlocher syndrome (AHS) as one of many rare childhood diseases that involve the liver.

R01DK109365 (Sindhi) 4/1/2017-3/31/2021 0.12 calendar
NIH

Mapping Disease Pathways for Biliary Atresia

This project will evaluate the genetic basis of biliary atresia (BA), the most common cause of liver failure at birth.

*Possible No Cost Extension through 8/31/18 reduced effort 1.8 Calendar Months

Pending:

Subcontract (Li) /01/2018-3/31/2022 1.21 calendar
University of Texas

Statistical Modeling and Validation for Tackling Risk Prediction with Competing Risks by Integrating Multiple Longitudinal Biomarkers

Role: Site PI/Co-Investigator

SERVICE (selected)

University /Medical School

2012-15 Standing Committee for Non-Tenured Faculty Promotions and Appointments,
University of Pittsburgh School of Medicine

1994-95 President, Faculty Senate, University of Texas Southwestern Medical Center

National Institutes of Health

2015 NIH Special Emphasis Panel/Scientific Review Group: ZAR1 KM (M2) 1, National
Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS); Patient
Reported Outcomes in Chronic Disease (PEPR) with PROMIS Tools

2010 Best Pharmaceuticals for Children Act—Gastroenterology Work Group. Eunice
Kennedy Shriver National Institute of Child Health and Human Development

2007 NIH grant review panel: ZRG1-DIG-B(02) S: Clinical Special Interest Panel in Digestive Disease

World Health Organization

2011-16 International Classification of Disease (ICD)-11 Revision process. Pediatric Topic Advisory Group, Gastroenterology Working Group

American Academy of Pediatrics

2014- Pediatrics Review and Education Program (PREP) GI Editorial Board
2014- Expert Learning Community Meeting on Innovative Financing for Health Care Services for Children with Special Health Care Needs: Value Based Purchasing. AAP (Chicago) and the Catalyst Center (Boston). Chicago, IL,
2012- Subspecialty Advisor, Executive Board of the Pennsylvania Chapter
2001-03 President, Texas Chapter American Academy of Pediatrics
1996-01 Chairman, Section of Gastroenterology and Nutrition, American Academy of Pediatrics
1995-01 Vice President, Texas Chapter, American Academy of Pediatrics

American Association for the Study of Liver Disease (AASLD)

2017- Pediatric Liver Disease Special Interest Group Steering Committee
2014- Acute Liver Failure and Artificial Liver Support abstract review committee
2014-16 Public and Clinical Policy Committee
2012-14 Publication Committee
2008 Jan Albrecht and Sheila Sherlock Award Review and Selection
2008-10 Clinical Research Committee
2004-05 Abstract Review Committee

North American Society for Pediatric Gastroenterology, Hepatology and Nutrition

2016- Finance Committee
2016-17 Awards Committee
2012-13 Nominating Committee
1996-98 Executive Council
1994-95 Schwachman Award Committee
1993-95 Ad Hoc Committee on Guidelines