

Curriculum Vitae

Binita M. Kamath, MBBChir MRCP MTR
Staff Physician, Division of Gastroenterology, Hepatology and Nutrition,
The Hospital for Sick Children
Senior Associate Scientist, Research Institute
Professor, University of Toronto
<http://lab.research.sickkids.ca/kamath/>

A. Date Curriculum Vitae is Prepared:

16th July 2023

B. Biographical Information

Hospital: Division of Gastroenterology, Hepatology and Nutrition
Department of Paediatrics,
The Hospital for Sick Children
555 University Avenue
Toronto, Ontario
M5G 1X8

1. EDUCATION

Degrees

2006 - 2010	Masters of Science in Translational Research (MTR), Institute of Translational Medicine and Therapeutics, University of Pennsylvania School of Medicine, Philadelphia, PA, USA
1998	Member of the Royal College of Physicians (MRCP) Member of the Royal College of Paediatricians & Child Health, UK
1993 – 1995	MBBChir Cambridge University School of Clinical Medicine, Cambridge, UK
1990 - 1993	B.A. (Hons) Medical Sciences Gonville and Caius College, Cambridge University, Cambridge, UK

Postgraduate, Research and Specialty Training

2004 – 2006	Pediatric Resident The Children's Hospital of Philadelphia, USA
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2002 – 2004	Research Fellow, Pediatric Gastroenterology, Hepatology and Nutrition The Children's Hospital of Philadelphia, USA
2001 – 2002	Clinical Fellow, Pediatric Gastroenterology, Hepatology and Nutrition The Children's Hospital of Philadelphia, USA
1999 – 2000	Registrar (Fellow) in Paediatrics and Neonatology Hillingdon Hospital, London, UK
1998 – 1999	Senior House Officer (Resident) in Paediatric Hepatology and Paediatrics, King's College Hospital, London, UK
1999	Senior House Officer (Resident) in Paediatric Cardiology & Intensive Care, Royal Brompton Hospital, London UK
1997 – 1998	Senior House Officer (Resident) in Paediatrics and Neonatology Whittington Hospital, London, UK
1996 – 1997	House Officer (Intern) in Adult Surgery West Suffolk Hospital, London, UK
1996	House Officer (Intern) in Adult Medicine Addenbrookes' Hospital Cambridge, UK

Qualifications, Certifications and Licenses

2009 – Present	Medical License (Academic), Ontario, Canada (91825)
2000 – 2009	Medical License, Pennsylvania, USA
1996 – 2000	Medical License, UK (426035)

2. EMPLOYMENT

Current Appointments

2022 (Feb) - Present	Division Chief (interim), Division of Gastroenterology, Hepatology and Nutrition, Department of Paediatrics The Hospital for Sick Children, Toronto, Ontario, Canada
2020 - Present	Professor of Paediatrics, Department of Paediatrics, Toronto, Ontario Faculty of Medicine, The University of Toronto Toronto, Ontario, Canada

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2017 – Present Senior Associate Scientist, Research Institute,
The Hospital for Sick Children,
Toronto, Ontario, Canada

2011 – Present Associate Member, Institute of Medical Sciences,
The University of Toronto
Toronto, Ontario, Canada

2009 – Present Staff Physician, Division of Gastroenterology, Hepatology and
Nutrition,
Department of Paediatrics
The Hospital for Sick Children,
Toronto, Ontario, Canada

Previous Appointments

HOSPITAL

2019 – 23 Fellowship Program Director,
Division of Gastroenterology, Hepatology and Nutrition,
Department of Paediatrics
The Hospital for Sick Children,
Toronto, Ontario, Canada

2014 - 2020 Associate Professor of Paediatrics,
Department of Paediatrics, Toronto, Ontario
Faculty of Medicine, The University of Toronto, Canada

2009 – 2016 Associate Scientist, Research Institute,
The Hospital for Sick Children, Toronto, Canada

2006 – 2009 Attending Physician, Division of Gastroenterology, Hepatology and
Nutrition,
Department of Pediatrics
The Children's Hospital of Philadelphia, PA USA

UNIVERSITY

2009 – 2014 Assistant Professor of Paediatrics,
Department of Paediatrics, Toronto, Ontario
Faculty of Medicine, The University of Toronto, Canada

2006-9 Assistant Professor of Pediatrics at Children's Hospital of
Philadelphia,
University of Pennsylvania School of Medicine, PA, USA

3. HONOURS AND CAREER AWARDS

Distinctions and Research Awards

INTERNATIONAL

- 2019 Alagille Syndrome Champion Award
Awarded by Alagille Syndrome Alliance for Contributions to Research and Clinical care of patients with Alagille Syndrome
- 2008 First Prize, Oral Abstract Presentation
Alex Mowat Meeting in Paediatric Hepatology
King's College Hospital, London, UK
- 2006 -2009 Fellowship Award (80% faculty salary support)
Institute of Translational Medicine and Therapeutics
University of Pennsylvania, Philadelphia, PA, USA
\$225,000
- 2005 Travel Award
Studies in Pediatric Liver Transplantation Annual Meeting, AZ, USA
- 2004 Travel Award
American Association for the Study of Liver Diseases: Pediatric Single Topic Conference: Intrahepatic Cholestasis, Atlanta, GA, USA
- 2004 Second Prize, Komarov Competition
Tri-State area research competition for adult and pediatric gastroenterology fellows
- 2003 Fellow Research Award
Award for the Most Outstanding Research Abstract
North American Society for Pediatric Gastroenterology, Hepatology and Nutrition
- 1993 Anne Pearson Prize for Medicine
Prize for the highest graduating First class degree in Medicine
Gonville and Caius College, Cambridge University
Cambridge, UK

LOCAL

- 2020 Janet Rossant Research Innovation Prize (\$25,000)
Awarded with James Ellis, Stephen Scherer, Seema Mital, Norman Rosenblum and Steve Prescott for efforts and research in iPSc technology

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Teaching Awards

INTERNATIONAL

2008 Faculty Honor Roll,
In recognition of resident teaching
The Children's Hospital of Philadelphia, Philadelphia, PA, USA

LOCAL

2018 Teaching and Mentorship Award,
Division of Gastroenterology, Hepatology and Nutrition,
Hospital for Sick Children, Toronto, Ontario, Canada

2012 Teaching and Mentorship Award,
Division of Gastroenterology, Hepatology and Nutrition,
Hospital for Sick Children, Toronto, Ontario, Canada

Nominated:

2012 Subspecialty Teaching Award, Department of Paediatrics,
Hospital for Sick Children, Toronto, Ontario, Canada

Professional Associations

2023- Fellow, American Association for the Study of Liver Diseases
2012- Member, Canadian Association for the Study of Liver Diseases
2010 - Member, European Association for the Study of Liver Diseases
2009 - Member, College of Physicians & Surgeons of Ontario (91825)
2004- Member, Studies in Pediatric Liver Transplantation
2001- Member, American Association for the Study of Liver Diseases
2001- Member, North American Society for Pediatric Gastroenterology,
Hepatology and Nutrition
1998- Member, Royal College of Pediatricians and Child Health, UK

Administrative Activities

INTERNATIONAL

North American Society for Pediatric Gastroenterology, Hepatology and Nutrition

2014-17 **Member, Executive Council**

2012-15 **Member**, Hepatology Committee
This committee is responsible for representing the interests of
hepatologists in the NASPGHAN annual meeting programming, to

organize annual symposia at the AASLD annual meetings and Digestive Diseases Week and to assist with the preparation of guidelines relevant to hepatology.

2008-2011 **Member**, Professional Development Committee
NASPGHAN is the primary professional association for pediatric gastroenterologists and hepatologists. This committee is responsible for developing professional development workshops for the North American pediatric gastroenterology community and allocating members to the organization's subcommittees.

Studies in Pediatric Liver Transplantation (SPLIT)

2010-2012 **Member**, Research Committee
SPLIT is a consortium of over 40 pediatric liver centres in North America. This committee is responsible for developing a research strategy to utilize the large database and to develop a research agenda for annual meetings.

American Association for the Study of Liver Diseases (AASLD)

2017-21 **Member**, Publications Committee

2010-13 **Member**, Steering Committee, Pediatric Special Interest Group
AASLD is the primary organization for hepatologists in North America. This committee is key to ensuring the interests of pediatric hepatologists are represented in programming for the AASLD annual meeting and in guideline publications.

2010-13 **Chair**, Focused Study Group
The FSG committee is responsible for organizing an evening program dedicated to a controversial area in pediatric hepatology annually at the AASLD annual meeting.

Childhood Liver Disease Research and Education Network (ChiLDREN)

2019- **Vice Chair**, Executive Committee
ChiLDREN is an NIH-funded consortium of 14 premier pediatric hepatology centres in North America. The purpose of the consortium is a prospective study of 9 rare pediatric liver diseases.

2018- **Member**, Genomics Working Group

2018- **Member**, Primary Sclerosing Cholangitis Protocol Development Committee

2015- **Member**, Data Committee

2013- **Member**, Shire/Mirum Global Clinical Trials Working Group

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2011- **Chair**, Alagille Syndrome Working Group
This committee is responsible for planning and conducting the research strategy to utilize the data and biologic samples that have been collected on almost 500 Alagille syndrome patients.

2011- **Member**, Publications and Presentations Committee

Alagille Alliance (International Parent Advocacy Group for Alagille Syndrome)

2011- **Member**, Medical Advisory Board
The Alagille Alliance is the only organization dedicated to raising funds and awareness of Alagille syndrome. The role of the Medical Advisory Board is to participate in Family Education Days and to assist with grant reviews.

NATIONAL

Canadian Association for the Study of Liver Diseases (CASL)

2015-17 **Member**, Governing Board

2012-14 **Member**, Education Committee
This committee is responsible for representing the interests of paediatric hepatologists at the Canadian Digestive Diseases Week, for organizing a paediatric symposium during this conference and for reviewing CASL fellowship applications.

LOCAL

Division Head (interim), Division of Gastroenterology, Hepatology & Nutrition (GHN), Hospital for Sick Children

2022 (Feb) – present

Competence Committee Reviewer, Division of GHN, Hospital for Sick Children

2020-22

Fellowship Training Program Director, Division of GHN, Hospital for Sick Children

2019-23

Director of Hepatology Program, Division of GHN, Hospital for Sick Children

2015-

Scholarship Oversight Committee, Division of GHN, Hospital for Sick Children

2015-19

Chair

This committee has oversight over research activities and scholarly output by Gastroenterology, Hepatology and Nutrition fellows.

Residency Scholarship Committee, Hospital for Sick Children

2014-19

co-Chair

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This committee has oversight over research activities and scholarly output by all SickKids' Paediatric Residents. This position involves meeting with half of the residents annually to monitor and facilitate scholarly activity.

Scholarship Oversight Committee, Division of Nephrology, Hospital for Sick Children

2014-17 **Member**

Andrew Sass-Kortsak Award Committee, Hospital for Sick Children

2010-14 **Member**

This committee reviews and adjudicates applications for this prestigious award on an annual basis. Highly accomplished trainee scientists apply and the successful winner presents their research at Grand Rounds.

Liver Transplant Program, Hospital for Sick Children

2010-14 **Chair, Research Committee**

Transplant and Regenerative Medicine Centre, Hospital for Sick Children

2010-17 **Chair, Research Committee**

This committee assists with developing and defining the research strategy for the Transplant Centre. It is also responsible for managing research competitions. Both large operating and pilot grant competitions are held annually. During this tenure, almost \$400,000 were awarded to successful grantees.

Peer Review Activities

ASSOCIATE EDITOR

Hepatology (IF 18) (2021-present) – I am responsible for managing all pediatric submissions to Hepatology and also some manuscripts regarding stem cell differentiation. I manage 50-60 manuscripts annually.

EDITORIAL BOARD

Hepatology (2017-19)

CIHR FELLOWSHIP APPLICATION REVIEWS

2017-21

GRANT REVIEWS

HSBC Catalyst Grant Reviews, SK Research Institute (2021, 2022)

CIHR (2012)

Transplant and Regenerative Medicine Centre, Hospital for Sick Children (2010-14)

MANUSCRIPT REVIEWS

Periodically:

Journal of Pediatric Gastroenterology, Hepatology and Nutrition, Pediatric Liver Transplantation, Hepatology, Liver Transplantation, PlosOne, Journal of Hepatology

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2016 Science, Nature

ABSTRACT REVIEWS

2011, 2015

University of Toronto GI Research Day

2018, 2019, 2022, 2023

Division of GI, Hepatology & Nutrition, SickKids Research Day

Other Research and Professional Activities

INTERNATIONAL

Oct, 2017

Faculty for Early Morning Workshop, American Association for the Study of Liver Diseases Annual Meeting, Washington DC
“iPS cells for Hepatobiliary Modeling”

Oct, 2016

Faculty for Learning Lunch, World Congress for Pediatric Gastroenterology, Hepatology and Nutrition, Montreal, Canada.
“Autoimmune Hepatitis”

Nov, 2015

Invited Guest, Early Morning Workshop, American Association for the Study of Liver Diseases Annual Meeting, San Francisco, CA, USA
“Pathophysiology of Biliary Tree Diseases: Lessons from Congenital Cholangiopathies”

Nov, 2015

Invited Guest, Early Morning Workshop, American Association for the Study of Liver Diseases Annual Meeting, San Francisco, CA, USA
“Cystic Fibrosis Liver Disease”

Oct, 2015

Faculty, Roundtable Session, Nutrition Symposium, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Washington, DC.
“Nutritional Issues in Alagille Syndrome”

Nov, 2014

Faculty for Early Morning Workshop, American Association for the Study of Liver Diseases Annual Meeting, Boston, MA, USA
“The Many Faces of PFIC”

May 2014

co-Chair, Clinical Symposium at Digestive Diseases Week, Chicago IL, USA
“Pediatric Liver Disease in the Era of Genomics”

Oct, 2012

Faculty for Meet the Professor Breakfast, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Salt Lake City, UT, USA
“Advances in the Evaluation of Neonatal Cholestasis”

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- Nov, 2009 **Expert for Learning Luncheon**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, National Harbor, MD, USA
“Alagille Syndrome and Mitochondrial Hepatopathy”
- Nov, 2008 **co-Director and Expert for Clinical Challenge Luncheon**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, San Diego, CA, USA
“Metabolic Liver Disease”
- Oct 2008 **Course co-Director**, American Association for the Study of Liver Diseases Annual Meeting, San Francisco, CA, USA
“Controversies in the Management of Alagille Syndrome”
- NATIONAL
- 2016 **co-Chair**, Canadian Association for the Study of Liver Diseases Paediatric Symposium, Canadian Digestive Diseases Week, Montreal Canada
- 2015 **Faculty for Small Group Session**, Canadian Digestive Diseases Week, Banff, Canada
“Genetic Causes of Cholestasis”
- 2015 **Faculty for Small Group Session**, Canadian Digestive Diseases Week, Banff, Canada
“Obese Teen with Co-existing GI and Liver Disease”
- 2015 **co-Chair**, Canadian Association for the Study of Liver Diseases Paediatric Symposium, Canadian Digestive Diseases Week, Banff, Canada
- 2013 **Chair**, Canadian Association for the Study of Liver Diseases Paediatric Symposium, Canadian Digestive Diseases Week, Victoria, BC, Canada
“Intestinal Failure Associated Liver Disease”
- LOCAL
- 2019 **Examiner**, Masters thesis and defense, Jason Lau “Baseline Toronto HCC Risk Index (THRI) and Albumin predict low risk of Hepatocellular Carcinoma (HCC) after Sustained Virological Response (SVR) in HCV Infection” (Supervisor = Dr. Jordan Feld)
- 2018 **Examiner**, Masters thesis and defense, Fiorella Murillo “The changing natural history of primary biliary cholangitis” (Supervisor = Dr. Harry Janssen)
- 2016 **Internal Appraiser**, PhD Final Examination (examiner for written thesis and oral defense), Carol Oliveira “Clinical Outcomes and Cost-Effectiveness of Intestinal Failure Management after

- Implementation of a Multidisciplinary Intestinal Rehabilitation Program” (Supervisor = Dr. Paul Wales)
- 2015 **Faculty for Panel about Mentoring**, Department of Paediatrics Research Day, Hospital for Sick Children, Toronto ON Canada
- 2013 **Examiner**, Master of Science Final Examination (examiner for written thesis and oral defense), Sandeep Dhillon “Functional variants of the NADPH oxidase genes and iNOS significantly contribute to the development and susceptibility to very early onset IBD” (Supervisor = Dr. Alex Muise)
- 2012 **Examiner**, Master of Science Final Examination (examiner for written thesis and oral defense), Dr. Megha Suri “Exogenous glucagon-like peptide-2 in neonatal piglet models of short bowel syndrome: Does the intestinal adaptive response vary with remnant intestinal anatomy?” (Supervisor = Dr. Paul Wales)
- 2012 **Judge** for Poster Presentations, University of Toronto GI Research Day, Toronto, ON, Canada
- 2011, 2013 **Judge** for Poster presentations, Department of Paediatrics Research Day, Hospital for Sick Children, Toronto ON Canada
- 2010 **Judge** for Oral Presentations, University of Toronto GI Research Day, Toronto, ON, Canada

C. Academic Profile

1. RESEARCH STATEMENT

My research focuses on inherited biliary disorders. Although these diseases are rare, my research is fundamental to understanding biliary disease mechanisms that has generalizability to other more common and complex bile duct diseases. My research approach is translational encompassing patient-based studies and basic science. My primary interest is Alagille syndrome, a multi-system disease with cholestasis associated with bile duct paucity – my goals are to understand the phenotypic manifestations, genotype-phenotype relationships and natural history of Alagille syndrome. In 2018 I established a global international research database of Alagille syndrome patients – the GALA study. This database now houses information about >1600 Alagille syndrome patients from 90 centres in 35 countries and is the largest dataset for Alagille syndrome. These data have been used for academic purposes and also presented to regulatory agencies (FDA, EMA) to obtain approval for novel therapies. In basic science approaches to understanding biliary diseases, I established a collaboration with Dr. Gordon Keller and Dr. Anand Ghanekar to develop a highly innovative protocol to differentiate cholangiocytes from induced pluripotent stem cells (iPSCs) – these data were published in *Nature Biotechnology* in 2015. I subsequently established an independent laboratory, and we are currently exploring the interactions between stem cell derived cholangiocytes and bile acids and syndromic biliary atresia. This project was awarded an independent operating grant from CIHR (2021-26).

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My second focus of research is a novel area of study to assess the concept of frailty and sarcopenia in children awaiting liver transplantation. Frailty is a validated measure of debilitation in the elderly, which is correlated with significant morbidity and mortality. Adult data reveal that frailty measures elements of morbidity in patients awaiting a liver transplantation that are not captured in laboratory evaluations or current organ allocation scoring systems. I have completed a multi-site prospective of 17 North American transplant centres, with SickKids as the lead site. We are conducting additional studies to explore the post-transplant impacts of frailty, metabolomics studies of serum from frail patients and a novel study to examine muscle tissue from frail patients undergoing liver transplantation.

2. TEACHING PHILOSOPHY

My teaching philosophy is to train the next generation of academic paediatric hepatologists. Therefore, I focus my educational activities towards paediatric gastroenterology and hepatology fellows, though some of my teaching also clearly includes undergraduate and graduate trainees. My goals are to lead trainees towards academic and research excellence through a combination of didactic and case-based interactive teaching, curriculum development and high-quality mentorship. It is also integral to my teaching philosophy to provide leadership in education as I demonstrate by course demonstration at the local, national and international levels. I was the Fellowship Program Director for GHN at SickKids from 2019 to 2023 and in this position, I was responsible for the training and mentorship of 18-20 fellows in any given year.

3. CREATIVE PROFESSIONAL ACTIVITIES STATEMENT

As an academic pediatric hepatologist, I have focused my creative professional activity on hereditary liver diseases. My internationally recognized patient-based and translational research activities have driven excellence in clinical care and led to engagement in advocacy for patients and to leadership roles in national and international academic societies.

Due to my clinical interest and expertise I am able to deliver quaternary level care to Alagille syndrome patients at SickKids and in Canada. My research activities have broadened our understanding of the phenotype associated with Alagille syndrome, changed the diagnostic criteria and modified practice in liver transplantation for Alagille syndrome. Thus my clinical and research activities are fully intertwined with one set of activities informing the other.

In addition, my creative professional activity extends to other biliary diseases. Based on my interest in biliary diseases I have also developed a strong interest in children with primary sclerosing cholangitis, most of whom have inflammatory bowel disease (IBD). In collaboration with my colleague and IBD expert, Dr. Tom Walters, we have established an innovative joint IBD-liver clinic. This clinical innovation allows us to deliver high quality care to a challenging population, ensures excellent communication between the IBD and Hepatology teams, and provides training and research opportunities.

D. Research Funding

Grants, Contracts and Clinical Trials

PEER-REVIEWED GRANTS (Active only)

2021-26

CIHR Project Grant: PI
Unraveling Roles for Bile Acids in Health and Disease Using
Human Stem Cell Derived Cholangiocytes
\$835,000

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Date

CONFIDENTIAL DOCUMENT

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- 2019-23 **CIHR Team Grant: Co-Investigator**
Defining and targeting Autoimmune Liver Disease
The goal of this project is to study the immunity to Primary Sclerosing Cholangitis (PSC)
PI: MacParland (UHN)
\$400,000 p.a.
- 2020-2 **co-Principal Investigator** (co-PI: Ng)
Mechanisms of Sarcopenia in Pediatric Endstage Liver Disease
Administrative Supplements to Existing NIH Grants and Cooperative Agreements, National Institute of Health, NIDDK
\$200,000 US

Multi-Centre Consortia:

- 2019-2024 **Site Principal Investigator (Vice Chair Executive Committee)**
Childhood Liver Disease Research Network (ChiLDReN)
National Institute of Health, NIDDK
\$1,450,00 US to SickKids

NON-PEER-REVIEWED GRANTS

- 2019-23 **Principal Investigator**
Functional validation of PKD1L1 mutations in Biliary Atresia
Biesecker Liver Center, The Children's Hospital of Philadelphia
\$45,000 US p.a.
- 2020-22 **Principal Investigator**
A Global Database of Alagille Syndrome (GALA)
Mirum Pharmaceuticals (Unrestricted Educational Grant)
\$648,000 US
- 2021-23 **Principal Investigator**
A Global Database of Alagille Syndrome (GALA)
Albireo Pharma (Unrestricted Educational Grant)
\$250,000 US

E. Publications

1. MOST SIGNIFICANT PUBLICATIONS

1. **[SRA]** Ogawa M, Ogawa S, Bear CE, Ahmadi S, Chin S, Li B, Grompe M, Keller G*, Kamath BM*, Ghanekar A* (**denotes equal contribution*). **Directed Differentiation of Functional Cholangiocytes from Human Pluripotent Stem Cells**. Nature Biotechnology. 2015 Aug;33(8):853-61.

2. **[SRA]** Lurz E, Quammie C, Englesbe M, Alonso EM, Lin HC, Hsu EK, Furuya KN, Gupta NA, Venkat VL, Daniel JF, Leonis MA, Miloh T, Telega GW, Yap J, Menendez J, Book LS, Himes RW, Sundaram SS, Parekh R, Sonnenday C, Bucuvalas J, Ng VL*, Kamath BM* (**denotes equal contribution*). **Frailty in Children with Liver Disease: A Prospective Multicenter Study**. *Journal of Pediatrics*. 2018 Mar;194:109-115. e4.
3. **[PA] Kamath BM**, Spino C, McLain R, Magee JC, Fredericks EM, Setchell KD, Miethke A, Molleston JP, Mack CL, Squires RH, Alonso EM, Murray KF, Loomes KM, Kyle Jensen M, Karpen SJ, Rosenthal P, Thomas D, Sokol RJ, Shneider BL; Childhood Liver Disease Research Network (ChiLDRen). **Unraveling the Relationship Between Itching, Scratch Scales, and Biomarkers in Children With Alagille Syndrome**. *Hepatology Communications*. 2020 May 26;4(7):1012-1018.
4. **[PA] Kamath BM**, Wen Y, Goodrich NP, Loomes KM, Romero R, Heubi JE, Leung DH, Spinner NB, Piccoli DA, Alonso EM, Guthery SL, Karpen SJ, Mack CL, Molleston JP, Murray KF, Rosenthal P, Squires JE, Teckman JH, Wang KS, Thompson RJ, Magee JC, Sokol RJ, the Childhood Liver Disease Research Network. **Outcomes of Childhood Cholestasis in Alagille Syndrome: Results of a Multi-Centre Observational Study**. *Hepatology Communications*. 2020 Jan 22;4(3):387-398.
5. **[SRA]** Vandriel SM, Li LT, She H, Wang JS, Gilbert MA, Jankowska I, Czubkowski P, Gliwicz-Miedzińska D, Gonzales EM, Jacquemin E, Bouligand J, Spinner NB, Loomes KM, Piccoli DA, D'Antiga L, Nicastro E, Sokal É, Demaret T, Ebel NH, Feinstein JA, Fawaz R, Nastasio S, Lacaille F, Debray D, Arnell H, Fischler B, Siew S, Stormon M, Karpen SJ, Romero R, Kim KM, Baek WY, Hardikar W, Shankar S, Roberts AJ, Evans HM, Jensen MK, Kavan M, Sundaram SS, Chaidez A, Karthikeyan P, Sanchez MC, Cavalieri ML, Verkade HJ, Lee WS, Squires JE, Hajinicolaou C, Lertudomphonwanit C, Fischer RT, Larson-Nath C, Mozer-Glassberg Y, Arikian C, Lin HC, Bernabeu JQ, Alam S, Kelly DA, Carvalho E, Ferreira CT, Indolfi G, Quiros-Tejeira RE, Bulut P, Calvo PL, Önal Z, Valentino PL, Desai DM, Eshun J, Rogalidou M, Dezsőfi A, Wiecek S, Nebbia G, Pinto RB, Wolters VM, Tamara ML, Zizzo AN, Garcia J, Schwarz K, Beretta M, Sandahl TD, Jimenez-Rivera C, Kerkar N, Brecelj J, Mujawar Q, Rock N, Busoms CM, Karnsakul W, Lurz E, Santos-Silva E, Blondet N, Bujanda L, Shah U, Thompson RJ, Hansen BE, **Kamath BM**; Global ALagille Alliance (GALA) Study Group. **Natural history of liver disease in a large international cohort of children with Alagille syndrome: Results from the GALA study**. *Hepatology*. 2023 Feb 1;77(2):512-529.

2. PEER-REVIEWED PUBLICATIONS

1. **[SRA]** Applying real-world analytics to compare 6-year event-free survival of maralixibat treated patients with Alagille syndrome to a natural history cohort from the GALA database Hansen BE, Vandriel S, Vig P, Garner W, Mogul D, Piccoli DA, Gonzales E, Verkade HJ, Wang J, Thompson RJ, **Kamath BM** for The Global ALagille Alliance (GALA) Study Group. *Under review July 2023*.
2. **[CA]** Sokol RJ, Gonzales EM, **Kamath BM**, Baker A, Vig P, Mogul DB, Garner W, Hansen BE, Jacquemin E, Thompson RJ. Predictors of 6-year event-free survival in Alagille syndrome patients treated with maralixibat, an ileal bile acid transporter inhibitor. *Hepatology*. 2023 Jun 7. Epub ahead of print.

3. **[CA]** Acosta Izquierdo L, Rai A, Saprungruang A, Chavhan GB, **Kamath BM**, Dipchand AI, Seed M, Yoo SJ, Lam CZ. Assessment of liver fibrosis using a 3-dimensional high-resolution late gadolinium enhancement sequence in children and adolescents with Fontan circulation. *European Radiology*. 2023 Feb 14. Epub ahead of print.
4. **[CA]** Bourkas AN, Pope E, Mendoza-Londono R, **Kamath BM**, Lara-Corrales I. Early diagnosis of ichthyosis, leukocyte vacuoles, alopecia, and sclerosing cholangitis syndrome: A case report. *Pediatric Dermatology*. 2023 Jan 19. Epub ahead of print.
5. **[CA]** Parra DA, Peters SE, Kohli R, Chamlati R, Connolly BL, Wolinska JM, Ng VL, Temple MJ, John PR, **Kamath BM**, Ling SC, Fecteau A, Amirabadi A, Amaral JG. Findings in percutaneous trans-hepatic cholecysto-cholangiography in neonates and infants presenting with conjugated hyperbilirubinemia: emphasis on differential diagnosis and cholangiographic patterns. *BMC Pediatrics*. 2023 Jan 14;23(1):22.
6. **[CA]** Ricciuto A, **Kamath BM**, Hirschfield GM, Trivedi PJ. Primary sclerosing cholangitis and overlap features of autoimmune hepatitis: a coming of age or an age-ist problem? *Journal of Hepatology*. 2023 Mar 2:S0168-8278(23)00162-9. Epub ahead of print.
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8. **[CA]** Leung DH, Devaraj S, Goodrich NP, Chen X, Rajapakshe D, Ye W, Andreev V, Minard CG, Guffey D, Molleston JP, Bass LM, Karpen SJ, Kamath BM, Wang KS, Sundaram SS, Rosenthal P, McKiernan P, Loomes KM, Jensen MK, Horslen SP, Bezerra JA, Magee JC, Merion RM, Sokol RJ, Shneider BL, Alonso E, Bass L, Kelly S, Riordan M, Melin-Aldana H, Bezerra J, Bove K, Heubi J, Miethke A, Tiao G, Denlinger J, Chapman E, Sokol R, Feldman A, Mack C, Narkewicz M, Suchy F, Sundaram SS, Van Hove J, Garcia B, Kauma M, Kocher K, Steinbeiss M, Lovell M, Loomes KM, Piccoli D, Rand E, Russo P, Spinner N, Erlichman J, Stalford S, Pakstis D, King S, Squires R, Sindhi R, Venkat V, Bukauskas K, McKiernan P, Haberstroh L, Squires J, Rosenthal P, Bull L, Curry J, Langlois C, Kim G, Teckman J, Kociela V, Nagy R, Patel S, Cerkoski J, Molleston JP, Bozic M, Subbarao G, Klipsch A, Sawyers C, Cummings O, Horslen SP, Murray K, Hsu E, Cooper K, Young M, Finn L, **Kamath BM**, Ng V, Quammie C, Putra J, Sharma D, Parmar A, Guthery S, Jensen K, Rutherford A, Lowichik A, Book L, Meyers R, Hall T, Wang KS, Michail S, Thomas D, Goodhue C, Kohli R, Wang L, Soufi N, Thomas D, Karpen S, Gupta N, Romero R, Vos MB, Tory R, Berauer JP, Abramowsky C, McFall J, Shneider BL, Harpavat S, Hertel P, Leung D, Tessier M, Schady D, Cavallo L, Olvera D, Banks C, Tsai C, Thompson R, Doo E, Hoofnagle J, Sherker A, Torrance R, Hall S, Magee J, Merion R, Spino C, Ye W; Childhood Liver Disease Research Network. Serum biomarkers correlated with liver stiffness assessed in a multicenter study of pediatric cholestatic liver disease. *Hepatology*. 2023 Feb 1;77(2):530-545. Epub 2022 Nov 3.
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12. **[PA] Kamath BM**, Haber BA: In: Hepatitis, *Pediatric Practice: Infectious Disease*, ed: Shah S, McGraw Hill 2009: pp 388-396.
13. **[PA] Kamath BM**, Muir A, Rand E: In: Nutritional considerations in pediatric liver transplantation, *Nutrition, Diet Therapy and the Liver*, ed: Preedy, Lakshman, Srirajaskanthan and Watson. Taylor and Francis Group 2010: pp 307-320.
14. **[PA] Kamath BM**, Loomes K, Piccoli D: In: Alagille syndrome and *JAGGED1/NOTCH* sequence, *Fibrocystic Diseases of the Liver*, 1st ed: Murray and Larsen April 2010.
15. **[SRA] Mouzaki M and Kamath BM**. Alagille syndrome, *Advances in Pediatric and Adolescent Hepatology*, ed: Dhawan. Karger, 2012: 50-63.
16. **[PA] Kamath BM** and Ng V. Pediatric Liver Disease: An Approach to Diagnosis and Assessment of Severity, *Handbook of Liver Disease*, ed: Heathcote 2012: 31-44.
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18. **[SRA]** Valentino PL and **Kamath BM**. Liver disease in Pediatric Inflammatory Bowel Disease. Pediatric Inflammatory Bowel disease, ed: Mamula and Baldassano, 2012: 95-107.
19. **[PA]** **Kamath BM**, Spinner N, Piccoli D: In: Alagille syndrome, Liver Disease in Children, 4th ed: Eds: Suchy, Sokol, Balistreri. 2014: pp216-233.
20. **[SRA]** Gonska T, Mouzaki M, Valentino PL, **Kamath BM**. General approach to Paediatric Gastroenterology and Hepatology. In: First Principles of Gastroenterology and Hepatology in Adults and Children. Eds: Thomson ABR, Shaffer EA, Gonska T 2014: pp317-342.
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23. **[SRA]** Ricciuto A and **Kamath BM**. Liver disease in Pediatric Inflammatory Bowel Disease. Pediatric Inflammatory Bowel disease, 3rd edition, ed: Kelsen, Grossman, Mamula and Baldassano, 2017.
24. **[SRA]** Vandriel SM, Ichord RN, **Kamath BM**: Vascular Manifestations in Alagille Syndrome. In: Kamath BM, Loomes KM, eds. Alagille Syndrome: Pathogenesis and Clinical Management. Cham: Springer International Publishing, 2018: pp. 91-102.
25. **[SRA]** Vandriel SM, **Kamath BM**: Transplant Management in Alagille syndrome. In: Hadzic N, Baumann U, McLin V, eds. Pediatric Liver Transplantation 1st Edition: A Clinical Guide. Elsevier Publishing, 2020: pp.351-356.
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27. **[CA]** Little R, **Kamath BM** and Ricciuto A. Liver disease in Pediatric Inflammatory Bowel Disease. Book chapter in Pediatric Inflammatory Bowel disease, 4th edition, ed: Kelsen, Grossman, Mamula and Baldassano, 2021.

Letters to Editor

- **[SRA]** Vandriel SM, **Kamath BM**. Reply. Hepatology. 2023 Jan 3. Epub ahead of print.
- **[CA]** Ibrahim SH, **Kamath BM**, Loomes KM, Karpen SJ. Reply. Hepatology. 2022 Aug;76(2):E47.
- **[CA]** Woolfson JP, **Kamath BM**, Ng VL. Reply. Liver Transplantation. 2021 Jul;27(7):1073-1074.
- **[PA]** **Kamath BM**, Loomes KM, Oakey RJ, Emerick KE, Spinner NB, Piccoli DA,

[Binita Kamath]

Krantz ID. Reply to correspondence from Sokol. "Facial features in Alagille syndrome: Specific or cholestasis facies?" *Am J Med Genet*, 124A:222-223, 2004.

- **[PA]** Kamath BM, Spinner NB, Emerick KM, Booth C, Chudley, AE, Bason L, Piccoli DA, Krantz ID. Reply to the Letter to the Editor by Hadchouel. *Circulation*. 2004; 110:e327, 2004.
- **[PA]** Krantz ID and **Kamath BM**. Reply to correspondence from Kosztolanyi and Mehes "Supernumerary digital flexion creases". *Am J Med Genet*. 2003; 121A:92, 2002.

Editorial Positions

- Clinical Liver Disease. An Official learning resource of AASLD. Guest Editor for Special Issue: "The Pediatric Liver Patient". Volume 4, Issue 4 pp77-95, October 2014.
- Co-Editor. "Alagille Syndrome: Pathogenesis and Clinical Management". Springer, 2018. Up to date, comprehensive book dedicated to Alagille Syndrome.
<https://www.springer.com/us/book/9783319945705>

F. Patents

Methods for generating hepatocytes and cholangiocytes from pluripotent stem cells. Inventors: Gordon Keller; Shinichiro Ogawa; James Surapisitchat; Mina Ogawa; **Binita M. Kamath**; Christine Bear; Anand Ghanekar
Application No.: PCT/CA2014/000122 / Application Date: Feb 18, 2014
Publication No.: WO2014124527

G. Presentations and Lectures

Papers/Posters/Abstracts (selected only)

INTERNATIONAL

1. **[SRA]** Murillo Perez CF, Vandriel SM, Wang JS, Li LT, She H, Jankowska I, Czubkowski P, Gliwicz D, Gonzalès E, Jacquemin E, Bouligand J, D'Antiga L, Nicastro E, Fischler B, Arnell H, Siew S, Stormon M, Loomes KM, Piccoli DA, Rand EB, Squires JE, Karpen SJ, Romero R, Kasahara M, Önal Z, Sokal E, Demaret T, Wiecek S, Lacaille F, Debray D, Hardikar W, Shankar S, Valentino P, Sundaram S, Chaidez A, Ebel N, Feinstein J, Mozar-Glazberg Y, Lin H, Rock N, Verkade HJ, Jensen MK, Jaramillo C, Kim K, Oh SH, Brecelj J, Alam S, Indolfi G, Blondet N, Fawaz R, Nastasio S, Calvo PL, Nebbia G, Arikan C, Larson-Nath C, Zizzo AN, Sandahl TD, Tzivinikos C, El-Koofy N, Elmonem M, Desai D, Karnsakul W, Karthikeyan P, Bulut P, Kerkar N, Wolters V, Roberts AJ, Evans H, Sanchez MC, Cavalieri ML, Kelly D, Lee WS, Hajinicolaou C, Lertudomphonwanit C, Fischer R, Bernabeu JQ, Quiros-Tejeira RE, Melere M, Carvalho E, Eshun J, Zellos A, Dezsófi A, Pinto RB, Schwarz K, Rogalidou M, Garcia J, Tamara ML, Beretta M, Mujawar Q, Santos-Silva E, Busoms CM, Lurz E, Gonçalves C, Jimenez-Rivera C, Bañales JM, Shah U, Thompson R, Hansen B, **Kamath BM** and The Global ALagille Alliance (GALA) Study Group. Serum Bile Acids are Associated with Native Liver Survival in Patients with Alagille Syndrome: Results from the GALA Study Group. *J Hepatol*. 2023 June; 78(Suppl. 1): pp.S971-973. **Poster abstract**. European Association for the Study of the Liver Congress 2023, Vienna, Austria.

2. **[CA]** Hansen B, Valcheva V, Yu Q, van Wessel D, Thompson R, Gonzalès E, Jankowska I, Sokal E, Grammatikopoulos T, Kadaristiana A, Jacquemin E, Spraul A, Lipiński P, Czubkowski P, Rock N, Shagrani M, Kumar K, Alkuraya F, Sateesh M, Broering DC, Nicastro E, Kelly D, Nebbia G, Arnell H, Fischler B, Serranti D, Arıkan C, Polat E, Debray D, Lacaille F, Gonçalves C, Llanillo LH, Bartolo GM, Mozer-Glassberg Y, Azaz A, Brecelj J, Dezsőfi A, Calvo PL, Grabhorn E, Sturm E, van der Woerd WL, **Kamath BM**, Wang JS, Liting L, Durmaz O, Önal Z, Felzen A, Nomden M, Sonajalg J, Stein P, Ni Q, Clemson C, Mattsson J, Verkade HJ. Analysis of Long-Term Treatment Effects of Odevixibat on Clinical Outcomes in Children with Progressive Familial Intrahepatic Cholestasis in Odevixibat Clinical Studies vs External Controls From the NAPPED Database. *J Hepatol.* 2023 June; 78(Suppl. 1): pp.S969-970. **Poster abstract.** European Association for the Study of the Liver Congress 2023, Vienna, Austria.
3. **[SRA]** Hirschfield G, Mogul D, Baek M, Vig P, **Kamath BM**. Impact of Maralixibat on Cholestatic Pruritus in Adults Aged 16 Years and Older with Alagille Syndrome. *J Hepatol.* 2023 June; 78(Suppl. 1): pp.S372. **Poster abstract.** European Association for the Study of the Liver (EASL) Congress 2023, Vienna, Austria.
4. **[SRA]** Ayoub M, Vandriel S, Valcic M, Bhagwandin S, Ling S, Ng V, Roberts E, **Kamath BM**. Ethnicity Does Not Predict Long Term Outcome of Liver Disease in Paediatric-onset Wilson Disease: A 60-year Study in a North American Multiethnic Cohort. *Journal of Pediatric Gastroenterology and Nutrition.* 2023 June; 76(Suppl. 1): pp.769. **Poster abstract.** 55th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Vienna, Austria.
5. **[SRA]** Shpoliansky M, Chavhan G, Zhou A, Ng V, **Kamath BM**. Ultrasound Is a Feasible Tool to Assess Muscle Mass in Children With and Without Liver Disease. *Journal of Pediatric Gastroenterology and Nutrition.* 2023 June; 76(Suppl. 1): pp.765. **Poster abstract.** 55th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Vienna, Austria.
6. **[SRA]** Hansen BE, Vandriel SM, Vig P, Garner W, Loomes KM, Piccoli DA, Rand EB, Jankowska I, Czubkowski P, Gliwicz-Miedzińska D, Gonzales EM, Jacquemin E, Bouligand J, D'Antiga L, Nicastro E, Arnell H, Fischler B, Sokal É, Demaret T, Siew S, Stormon M, Karpen SJ, Romero R, Ebel NH, Feinstein JA, Roberts AJ, Evans HM, Sundaram SS, Chaidez A, Hardikar W, Shankar S, Fischer RT, Lacaille F, Debray D, Lin HC, Jensen MK, Jaramillo C, Karthikeyan P, Davison S, Indolfi G, Verkade HJ, Larson-Nath C, Quiros-Tejeira RE, Valentino PL, Rogalidou M, Dezsőfi A, Squires JE, Schwarz K, Calvo PL, Bernabeu JQ, Zizzo AN, Nebbia G, Bulut P, Santos-Silva E, Fawaz R, Nastasio S, Karnsakul W, Tamara ML, Busoms CM, Kelly D, Sandahl TD, Jimenez-Rivera C, Banales JM, Mujawar Q, Li LT, She H, Wang JS, Kim KM, Baek WY, Sanchez MC, Cavalieri ML, Lee WS, Hajinicolaou C, Lertudomphonwanit C, Waisbourd-Zinman O, Arıkan C, Alam S, Carvalho E, Melere M, Eshun J, Önal Z, Desai DM, Wiecek S, Pinto RB, Wolters VM, Garcia J, Beretta M, Kerkar N, Brecelj J, Rock N, Lurz E, Blondet N, Shah U, Thompson RJ, **Kamath BM** and The Global ALagille Alliance (GALA) Study Group. Maralixibat-treated patients with alagille syndrome demonstrate improved event-free survival in a natural history comparison with patients from the gala database: application of real-world evidence analytics. *Journal of Pediatric Gastroenterology and Nutrition.* 2022 October; 75(Suppl. 1): S211-S213. **Poster**

abstract. Annual meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN), Orlando, Florida.

7. **[PA] Kamath B**, Mogul D, Baek M, Nunes T, Vig P. Maralixibat improves growth in patients with alagille syndrome: a 4-year analysis. *Journal of Pediatric Gastroenterology and Nutrition*. 2022 October; 75(Suppl. 1): S210-S211. Poster abstract. Annual meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN), Orlando, Florida. **Poster of Distinction**.
8. **[CA] Sokol RJ**, Gonzales E, **Kamath B**, Baker A, Vig P, Garner W, Hansen BE, Jacquemin E, Thompson RJ. Predictors of 6-year event-free survival in patients with Alagille Syndrome treated with maralixibat, an IBAT inhibitor. *Journal of Pediatric Gastroenterology and Nutrition* 2022; 74(Suppl. 2):pp.658-659. Oral abstract. 54th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, Denmark, June 2022.
9. **[SRA] Hansen BE**, Vandriel SM, Vig P, Garner W, Li LT, She H, Wang JS, Gilbert MA, Jankowska I, Czubkowski P, Gliwicz-Miedzińska D, Gonzales EM, Jacquemin E, Bouligand J, Spinner NB, Loomes KM, Piccoli DA, D'Antiga L, Nicastró E, Sokal É, Demaret T, Ebel NH, Feinstein JA, Fawaz R, Nastasio S, Lacaille F, Debray D, Arnell H, Fischler B, Siew S, Stormon M, Karpen SJ, Romero R, Kim KM, Baek WY, Hardikar W, Shankar S, Roberts AJ, Evans HM, Jensen MK, Kavan M, Sundaram SS, Chaidez A, Karthikeyan P, Davison S, Sanchez MC, Cavalieri ML, Verkade HJ, Lee WS, Squires JE, Hajinicolaou C, Lertudomphonwanit C, Fischer RT, Larson-Nath C, Mozer-Glassberg Y, Arikan C, Lin HC, Bernabeu JQ, Alam S, Kelly D, Carvalho E, Ferreira CT, Indolfi G, Quiros-Tejeira RE, Bulut P, Calvo PL, Ónal Z, Valentino PL, Desai DM, Eshun J, Rogalidou M, Dezsőfi A, Wiecek S, Nebbia G, Pinto RB, Wolters VM, Tamara ML, Zizzo AN, Garcia J, Schwarz K, Beretta M, Sandahl TD, Jimenez-Rivera C, Kerkar N, Brecelj J, Mujawar Q, Rock N, Busoms CM, Karnsakul W, Lurz E, Santos-Silva E, Blondet N, Bujanda L, Shah U, Thompson RJ, **Kamath BM**, The Global Alagille Alliance (GALA) Study Group. Maralixibat-treated patients with Alagille syndrome (ALGS) demonstrate improved event-free survival in a natural history comparison with patients from the GALA database: application of real-world evidence analytics. *Journal of Pediatric Gastroenterology and Nutrition* 2022; 74(Suppl. 2):pp.670-673. Oral abstract. 54th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, Denmark, June 2022.
10. **[SRA] Vandriel SM**, Fawzy A, Wood P, Shah AA, Gold A, Roberts EA, **Kamath BM**. Impaired cognitive functioning and health-related quality of life in pediatric Wilson disease. *Journal of Pediatric Gastroenterology and Nutrition* 2022; 74(Suppl. 2):pp.682. Oral abstract. 54th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, Denmark, June 2022.
11. **[PA] Kamath BM**, Goldstein A, Howard R, Garner W, Marden J, Billmyer E, Anderson A, Jacquemin E, Gonzales E, Nunes T. Response to treatment with maralixibat in Alagille syndrome is associated with improved health-related quality of life. *Journal of Pediatric Gastroenterology and Nutrition* 2022; 74(Suppl. 2):pp.776-777. Poster abstract. 54th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, Denmark, June 2022.
12. **[PA] Kamath BM**, Mogul DB, Baek M, Nunes T, Vig P. Maralixibat improves growth in

patients with Alagille syndrome: a 4-year analysis. *Journal of Pediatric Gastroenterology and Nutrition* 2022; 74(Suppl. 2):pp.778. Poster abstract. 54th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, Denmark, June 2022.

13. [SRA] Sutton H, Fawzy A, Vandriel S, **Kamath B**. Steroid therapy associated with native liver survival in over one third of paediatric autoimmune hepatitis patients presenting as acute-on-chronic liver failure. *Journal of Pediatric Gastroenterology and Nutrition* 2022; 74(Suppl. 2):pp.897. Poster abstract. 54th Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, Denmark, June 2022.
14. [SRA] Hansen BE, Vandriel SM, Vig P, Garner W, Li L, She H, Wang J, Gilbert MA, Jankowska I, Czubkowski P, Gliwicz-Miedzińska D, Gonzales EM, Jacquemin E, Bouligand J, Spinner NB, Loomes KM, Piccoli DA, D'Antiga L, Nicastró E, Sokal É, Demaret T, Ebel NH, Feinstein JA, Fawaz R, Nastasio S, Lacaille F, Debray D, Arnell H, Fischler B, Siew S, Stormon M, Karpen SJ, Romero R, Kim KM, Baek WY, Hardikar W, Shankar S, Roberts AJ, Evans HM, Jensen MK, Kavan M, Sundaram SS, Chaidez A, Karthikeyan P, Davison S, Sanchez MC, Cavalieri ML, Verkade HJ, Lee WS, Squires JE, Hajinicolaou C, Lertudomphonwanit C, Fischer RT, Larson-Nath C, Mozer-Glassberg Y, Arikan C, Lin HC, Bernabeu JQ, Alam S, Kelly D, Carvalho E, Ferreira CT, Indolfi G, Quiros-Tejeira RE, Bulut P, Calvo PL, Önal Z, Valentino PL, Desai DM, Eshun J, Rogalidou M, Dezsófi A, Wiecek S, Nebbia G, Pinto RB, Wolters VM, Tamara ML, Zizzo AN, Garcia J, Schwarz K, Beretta M, Sandahl TD, Jimenez-Rivera C, Kerkar N, Brecelj J, Mujawar Q, Rock N, Busoms CM, Karnsakul W, Lurz E, Santos-Silva E, Blondet N, Bujanda L, Shah U, Thompson RJ, **Kamath BM** and The Global ALagille Alliance (GALA) Study Group. (**oral abstract - late-breaking plenary session**). Application of real-world evidence analytics: A 6-year event-free survival analysis in Alagille syndrome of the GALA clinical research database and maralixibat treated patients. The Liver Meeting Digital Experience (TLMdX), November 2021. **Selected as 'Best of The Liver Meeting' in the Pediatric Liver Diseases category.**
15. [SRA] Vandriel SM, Li L, She H, Wang J, Gilbert MA, Jankowska I, Czubkowski P, Gliwicz D, Gonzale EM, Jacquemin E, Bouligand J, Spinner NB, Loomes KM, Piccoli DA, D'Antiga L, Nicastró E, Sokal E, Demaret T, Lacaille F, Debray D, Siew S, Stormon M, Fawaz R, Nastasio S, Kim KM, Baek WY, Feinstein JA, Ebel NH, Karpen SJ, Romero R, Karthikeyan P, Davison S, Arnell H, Fischler B, Squires JE, Hardikar W, Shankar S, Jensen KM, Kavan M, Larson-Nath C, Roberts AJ, Evans HM, Verkade HJ, Lertudomphonwanit C, Waisbourd-Zinman O, Sundaram SS, Chaidez A, Fischer RT, Lee WS, Lin H, Kelly D, Bulut P, Calvo PL, Bernabeu JQ, Indolfi G, Nebbia G, Valentino PL, Tamara ML, Desai DM, Zizzo AN, Quiros-Tejeira RE, Kerkar N, Schwarz K, Wolters VM, Mujawar Q, Molera C, Sandahl TD, Jimenez-Rivera C, Santos-Silva E, Blondet N, Brecelj J, Banales JM, Sanchez MC, Cavalieri ML, Wiecek S, Karnsakul W, Lurz E, Alam S, Önal Z, Rogalidou M, Arikan C, Garcia J, Thompson RJ, Hansen BE, **Kamath BM**, and The GALA Study Group. (**oral abstract**). Differential prevalence of extrahepatic clinical manifestations in patients with *Jagged1* and *NOTCH2*-associated Alagille syndrome: Results from the International Multicenter GALA Study Group. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021. **Nominated for The Annual Alex Mowat Prize for the best oral presentation in Hepatology.**
16. [SRA] Huysentruyt K, Vandriel SM, Fawzy A, Al-Bahlani A, Bakhsh A, Armon G,

Shamahsneh I, **Kamath BM. (oral abstract)**. Long term tube feeding in young children with Alagille syndrome: Does it impact height? 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.

17. **[CA]** Felzen A, van Wessel D, Thompson RJ, Gonzales EM, Jankowska I, Shneider BL, Sokal E, Grammatikopoulos T, Kadaristiana A, Jacquemin E, Spraul A, Lipinski P, Czubkowski P, Rock N, Shagrani M, Broering D, Algoufi T, Mazhar N, Nicastro E, Kelly D, Nebbia G, Arnell H, Fischler B, Hulscher JBF, Serranti D, Arikan C, Polat E, Debray D, Lacaille F, Goncalves C, Hierro L, Bartolo GM, Mozer-Glassberg Y, Azaz A, Brecej J, Deszöfi A, Calvo PL, Grabhorn E, Hartleif S, van der Woerd W, **Kamath BM**, Wang J, Li L, Durmaz O, Kerkar N, Jorgensen MH, Fischer RT, Jimenez-Rivera C, Alam S, Cananzi M, Ruiz M, Ferreira CT, Guerrero FO, Wang H, Sency V, Kim KM, Chen H, Carvalho E, Fabre A, Bernabeu JQ, Alonso EM, Sokol RJ, Suchy FJ, Loomes KM, McKiernan PJ, Rosenthal P, Turmelle Y, Horslen SP, Schwarz K, Bezerra JA, Wang KS, Hansen BE, Verkade HJ. **(oral abstract)**. The presence of a truncating mutation in *ABCB11* abrogates the beneficial effect of a residual function mutation on the course of severe bile salt export pump deficiency. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.
18. **[CA]** van Wessel DBE, Thompson R, Gonzales E, Jankowska I, Shneider BL, Sokal E, Grammatikopoulos T, Kadaristiana A, Jacquemin E, Spraul A, Lipinski P, Czubkowski P, Rock N, Shagrani M, Broering D, Algoufi T, Mazhar N, Nicastro E, Kelly D, Nebbia G, Arnell H, Fischler B, Hulscher JBF, Serranti D, Arikan C, Debray D, Lacaille F, Gonçalves C, Hierro L, Bartolo GM, Mozer-Glassberg Y, Azaz A, Brecej J, Dezsofi A, Calvo PL, Krebs-Schmitt D, Hartleif S, van der Woerd W, Wang J, Li L, Durmaz O, Kerkar N, Jörgensen MH, Fischer RT, Jimenez-Rivera C, Alam S, Cananzi M, Laverdure N, Ferreira CT, Ordonez F, Wang H, Sency V, Kim KM, Chen H, Carvalho E, Fabre A, Bernabeu JQ, Alonso E, Sokol RJ, Suchy FJ, Loomes K, McKiernan PJ, Rosenthal P, Turmelle Y, Rao G, Horslen S, **Kamath BM**, Rogalidou M, Karnsakul WS, Hansen B, Verkade HJ. Natural course and Prognosis of PFIC and Effect of biliary Diversion (NAPPED) consortium, Childhood Liver Disease Research Network (ChiLDReN), European Reference Network RARE-LIVER. **(oral abstract)**. Native liver survival in patients with FIC1 deficiency: Impact of genotype, serum bile acid concentrations and surgical biliary diversion. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.
19. **[CA]** Abuquteish D, Chami R, **Kamath BM**, Alqahtani S, Vandriel SM, Adeyi O, Siddiqui I. **(poster abstract)**. Wilson Disease histopathological and ultrastructural findings in pediatric and adult patients. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.
20. **[PA]** **Kamath BM**, Raman RK, Garner W, Tucker E, Vig P, Gonzales E. **(poster abstract)**. Gastrointestinal tolerability of maralixibat in patients with Alagille syndrome: An integrated analysis of short- and long-term treatment. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.
21. **[SRA]** Alqahtani S, Johara F, Quammie C, Lurz E, Alonso E, Daniel J, Venkat V, Leung D, Economides J, Hsu E, Loomes K, Gupta N, Mannino D, Menendez J, Ng V, **Kamath BM. (poster abstract)**. Frailty is associated with longer hospital stay after liver transplantation in children. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.

22. [CA] Alqahtani S, Chami R, Abuquteish D, Vandriel SM, Yap C, Kukjadi L, Parmar A, Roberts E, **Kamath BM**, Siddiqui I. **(poster abstract)**. The role of Electron Microscopy (EM) in the diagnosis of Wilson disease. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.
23. [CA] Little R, Putra J, **Kamath BM**, Griffiths A, Siddiqui I, Ricciuto A. **(poster abstract)**. The distinct phenotype of Pediatric PSC-IBD is confirmed histopathologically. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, June 2021.
24. [SRA] Vandriel SM, Li L, She H, Wang JS, Piccoli DA, Loomes KM, Spinner N, D'antiga L, Nicastro E, Czubkowski P, Jankowska I, Gliwicz D, Sokal EM, Demaret T, Fawaz RL, Nastasio S, Hardikar W, Shankar S, Arnell H, Fischler B, Fischer RT, Alam S, Bulut P, Kim K, Baek WY, Calvo PL, Valentino PL, Karthikeyan P, Davison S, Siew S, Stormon M, Karpen SJ, Romero R, Roberts AJ, Evans HM, Sanchez MC, Chazarreta M, Jensen MK, Kavan M, Verkade HJ, Lee WS, Squires JE, Lertudomphonwanit C, Lin H, Karnsakul W, Kelly D, Quiros-Tejeira RE, Targa Ferreira C, Carvalho E, Banales JM, Indolfi G, Larson-Nath C, Quintero J, Arkan C, Schwarz K, Kanavaki I, Dezsófi A, Borges-Pinto R, Wiecek S, Mujawar Q, Brecej J, Kerkar N, Santos-Silva E, Jimenez-Rivera C, Waisbourd-Zinman O, Nebbia G, Gonzales E, Thompson RJ, Hansen BE, **Kamath BM**, and The GALA Study Group. **(oral abstract)**. Characterization of the *NOTCH2*-Associated Alagille Syndrome Phenotype: Results from the International Multicenter GALA Study Group. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, June 2020. **Nominated for The Annual Alex Mowat Prize for the best oral presentation in Hepatology.** (Conference cancelled due to COVID-19)
25. Vandriel SM, Li L, She H, Wang JS, Czubkowski P, Jankowska I, Gliwicz D, Piccoli DA, Loomes KM, Spinner N, Sokal EM, Demaret T, D'antiga L, Nicastro E, Fawaz RL, Nastasio S, Siew S, Stormon M, Arnell H, Fischler B, Kim K, Baek WY, Karpen SJ, Romero R, Hardikar W, Shankar S, Roberts AJ, Evans HM, Sanchez MC, Cavalieri ML, Karthikeyan P, Davison S, Jensen MK, Kavan M, Verkade HJ, Lee WS, Squires JE, Lertudomphonwanit C, Fischer RT, Lin H, Karnsakul W, Kelly D, Quiros-Tejeira RE, Targa Ferreira C, Carvalho E, Alam S, Banales JM, Indolfi G, Larson-Nath C, Bulut P, Calvo PL, Valentino PL, Arkan C, Schwarz K, Kanavaki I, Dezsófi A, Borges-Pinto R, Wiecek S, Mujawar Q, Brecej J, Kerkar N, Santos-Silva E, Jimenez-Rivera C, Waisbourd-Zinman O, Nebbia G, Gonzales E, Thompson RJ, Hansen BE, **Kamath BM**, and The GALA Study Group. **(oral abstract)**. Clinical Features and Natural History of 1154 Alagille Syndrome Patients: Results from the International Multicenter GALA Study Group. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, June 2020. **Nominated for The Annual Alex Mowat Prize for the best oral presentation in Hepatology.**
26. Vandriel SM, Ricciuto A, Armon G, Forster CM, Huysentruyt K, Hansen BE, **Kamath BM**. **(poster abstract)**. Natural Variation of Liver Transaminases in Children with Alagille Syndrome: Implications for Clinical Trial Design. 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, June 2020.
27. Huysentruyt K, Vandriel SM, Armon G, Shamahsneh I, **Kamath BM**. **(poster abstract)**. Long Term Tube Feeding in Young Children with Alagille Syndrome: Can We Make Them Grow Taller? 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition, Copenhagen, June 2020.

28. Vandriel SM, Li L, She H, Wang JS, Czubkowski P, Jankowska I, Gliwicz D, Piccoli DA, Loomes KM, Spinner N, Sokal EM, Demaret T, D'antiga L, Nicastro E, Fawaz RL, Nastasio S, Siew S, Stormon M, Arnell H, Fischler B, Kim K, Baek WY, Karpen SJ, Romero R, Hardikar W, Shankar S, Roberts AJ, Evans HM, Sanchez MC, Cavalieri ML, Karthikeyan P, Davison S, Jensen MK, Kavan M, Verkade HJ, Lee WS, Squires JE, Lertudomphonwanit C, Fischer RT, Lin H, Karnsakul W, Kelly D, Quiros-Tejeira RE, Targa Ferreira C, Carvalho E, Alam S, Banales JM, Indolfi G, Larson-Nath C, Bulut P, Calvo PL, Valentino PL, Arıkan C, Schwarz K, Kanavaki I, Dezsőfi A, Borges-Pinto R, Wiecek S, Mujawar Q, Brecelj J, Kerkar N, Santos-Silva E, Jimenez-Rivera C, Waisbourd-Zinman O, Nebbia G, Gonzales E, Thompson RJ, Hansen BE, **Kamath BM**, and The GALA Study Group. (**poster abstract – trainee travel award**). Clinical Features and Natural History of 1154 Alagille Syndrome Patients: Results from the International Multicenter GALA Study Group. International Liver Congress 2020, London, April 2020.
29. Vandriel S, Wang J, Li L, Piccoli DA, Loomes KM, Sokal EM, Demaret T, Arnell H, Fischler B, Fawaz RL, Nastasio S, Hardikar W, Shankar S, Lee W, Lertudomphonwanit Karnsakul W, Karpen SJ, Fischer RT, Quiros-Tejeira RE, Melere M, Bujanda L, Indolfi G, Dr. Nicastro E, Calvo PL, Valentino PL, Schwarz KB, Kanavaki I, Dezsőfin A, Mujawar Q, Pinto RB, Brecelj J, Kerkar N, Sanchez M, Karthikeyan P, Santos-Silva E, Jimenez-Rivera C, Mozer-Glassberg Y, Alam S, Hansen BE, **Kamath BM** and The GALA Study Group. (**oral abstract**). Clinical Features and Outcomes in an International Cohort of 731 Alagille Syndrome Patients from 19 Countries. American Association of the Study of Liver Diseases Annual Meeting, Boston, November 2019.
30. Huysentruyt K, Vandriel S, Piccoli DA, Lin H, Hulst JM, Roelants M, **Kamath BM**. (**oral abstract – trainee presentation**). Growth trajectories in Alagille syndrome from birth to early childhood: towards condition specific growth charts. European Society for Paediatric Gastroenterology Hepatology and Nutrition Annual Meeting, Glasgow Scotland, June 2019.
31. Rozycki M, Liu J, Parmar A, Sampaziotis F, Ghanekar G, **Kamath BM** (**oral abstract – presenter**). Impairment of inter-cholangiocyte signaling as a potential mechanism for bile duct paucity in Alagille Syndrome. American Association of the Study of Liver Diseases Annual Meeting, San Francisco, November 2018.
32. **Kamath BM**, Ye W, Goodrich NP, Loomes KM, Romero R, Heubi JE, Leung DH, Spinner NB, Piccoli DA, Karpen SJ, Mack C, Molleston JP, Murray KF, Rosenthal P, Squires J, Teckman J, Wang KS, Sherker AH, Sokol RJ, Magee JC for the Childhood Liver Disease Research Network (ChiLDRen). Characteristics and Outcomes of Pediatric Cholestasis in Alagille Syndrome in the Modern Era. Poster of Distinction. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Las Vegas, Nevada, November 2017.
33. Vandriel SM, Ayoub MD, Ling SC, Ng VL, Roberts EA, **Kamath BM**. Wilsonian Fulminant Hepatic Failure in Children and Adolescents: A Systematic Review of 274 Cases. Poster Presentation. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Las Vegas, Nevada, November 2017.
34. **Kamath BM** (**oral abstract – presenter**), Ye W, Goodrich NP, Loomes KM, Romero R, Heubi JE, Leung DH, Spinner NB, Piccoli DA, Karpen SJ, Mack C, Molleston JP, Murray KF, Rosenthal P, Squires J, Teckman J, Wang KS, Sherker AH, Sokol RJ, Magee JC for the

Childhood Liver Disease Research Network (ChiLDRen). Characteristics and Outcomes of Pediatric Cholestasis in Alagille Syndrome in the Modern Era. American Association of the Study of Liver Diseases Annual Meeting, Washington DC, October 2017.

35. **Kamath BM**, Shneider BL, Spino C, Magee JC, Whittington PF, Setchell KD, Miethke A, Molleston JP, Mack CL, Squires RH, Murray KF, Loomes KM, Rosenthal P, Karpen SJ, Leung DH, Guthery SL, Thomas D, Sherker AH, Sokol RJ. Unraveling the Relationship between Itching, Scratch Scales and Biomarkers in Children with Alagille Syndrome. Poster Presentation. American Association of the Study of Liver Diseases Annual Meeting, Washington DC, October 2017.
36. Lurz E, Quammie C, Daniels JF, Alonso EM, Hsu E, Furuya K, Gupta NA, Telega GW, Book L, Lin H, Sundaram S, Yap J, Miloh T, Sonnenday C, Engelsbe M, Ng VL, **Kamath BM**. Frailty in Children with Liver Disease. (**oral abstract – trainee presentation**). World Congress for Pediatric Gastroenterology, Hepatology and Nutrition, Montreal, Canada, October 2016.
37. Ricciuto A, **Kamath BM**, Church P, Walters T, Ling SC, Frost K, Griffiths AM. Liver injury associated with anti-TNF therapy in pediatric IBD. Poster presentation. Digestive Diseases Week, San Diego, May 2016.
38. **Kamath BM**, Quammie C, Daniels JF, Alonso EM, Hsu E, Furuya K, Gupta NA, Telega GW, Book L, Lin H, Sundaram S, Yap J, Miloh T, Sonnenday C, Engelsbe M, Ng VL. Frailty in Children: A Novel Tool that Measures the Morbidity Associated with End-stage Liver Disease. Poster presentation. European Association for the Study of Liver Diseases Annual Meeting, Vienna, Austria, April 2015.
39. Benidir A, Jiminez-Rivera C, Ling SC, Ng VL, **Kamath BM (oral abstract – trainee presentation)**. PELD as a predictor of change to second-line therapy in children with autoimmune hepatitis: a national multi- centre retrospective cohort study. Oral presentation. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Atlanta, October 2014.
40. Abetz-Webb L, Kennedy C, Hepburn B, Gautier M, Johnson N, Medendorp S, Dorenbaum A, Shneider B, **Kamath BM**. The Burden of Pruritus on Patients with Alagille Syndrome: Results from a Qualitative Study with Pediatric Patients and their Caregivers. Poster presentation. American Association of the Study of Liver Diseases Annual Meeting, Boston, November 2014.
41. Loomes K....**Kamath BM** et al. A Genome-wide Association Study Identifies *THBS2* as a Candidate Modifier of Liver Disease Severity in Alagille Syndrome. Oral presentation (Plenary Session). American Association of the Study of Liver Diseases Annual Meeting, Boston, November 2014.
42. Wang K, Shneider B, Azen C, Arnon R, Bass L, Bozic M, Brandt M, Clifton M, Dillon P, Fecteau A, Hertel P, Hirose S, Iyer K, **Kamath BM**, Karpen S, Karrer F, Kerkar N, Loomes K, Mack C, Mattei P, Miethke A, Mogul D, Rosenthal P, Soltys K, Superina R, Stewart D, Tiao G, Turmelle Y, West K, on behalf of the Childhood Liver Disease Research Network (ChiLDRen). Analysis of surgical interruption of the enterohepatic circulation as a treatment for pediatric cholestasis: a retrospective, multi-institutional study. Poster presentation. American Association of the Study of Liver Diseases Annual Meeting, Boston, November 2014.

43. Branfield Day L, Quammie C, Heon E, **Kamath BM**. Liver Disease in Bardet-Biedl Syndrome. Poster presentation. Pediatric Academic Societies and Asian Society for Pediatric Research Joint Meeting, Vancouver, B.C., March 2014.
44. Valentino P, Feldman B, Walters T, Griffiths A, Ling S, Pullenayegum E, **Kamath BM**. The Prevalence and Spectrum of Abnormal Liver Biochemistry in a Large Cohort of Children with Inflammatory Bowel Disease. Poster presentation. American Association of the Study of Liver Diseases Annual Meeting, Washington D.C., November 2013.
45. Valentino P, Ling S, Ng V, John P, **Kamath BM**. The Role of Liver Biopsy in The Diagnosis of Focal Nodular Hyperplasia (FNH) In Children. Poster presentation. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Salt Lake City, October 2012.
46. Ablu O, **Kamath BM**, Cutz E, Daneman A, Weitzman S. Imatinib Treatment for Refractory Systemic Rosai-Dorfman Disease. Poster presentation. Annual Meeting of the Histiocyte Society, London UK. 2012.
47. Baird L, **Kamath BM**, Spinner NB, Ichord R, Bernard T, Miller H, Piccoli DA, Scott RM, Smith E. Moyamoya Associated with Alagille Syndrome: A Multicenter Study of Surgical Revascularization and Outcomes. Poster presentation. Congress of Neurological Surgeons, Chicago 2012.
48. Valentino P, Ling S, Ng V, John P and **Kamath BM**. The Role of Liver Biopsy In The Diagnosis Of Focal Nodular Hyperplasia in Children. Poster presentation. European Association for the Study of Liver Diseases Annual Meeting, Barcelona, April 2012.
49. **Kamath BM (oral abstract – presenter)**, Yin W, Miller H, Anand R, Rand EB, Alonso E, Bucuvalas J and the SPLIT Group. Outcome of Alagille Syndrome after Liver Transplantation: The SPLIT Experience. European Association for the Study of Liver Diseases Annual Meeting, Barcelona, April 2012.
50. Mouzaki M, Yap J, Avinashi V, Babu A, Fu A, Deangelis M, Murch K, Ghanekar A, Ling S, **Kamath BM**, Avitzur Y, Fecteau A, Jones N, Ling S, Grant D, Ng V. Basiliximab to allow delayed introduction of Calcineurin inhibitors as Renal-sparing Protocol in Pediatric Liver Transplant Recipients. Poster presentation. American Association of the Study of Liver Diseases Single Topic Conference, Atlanta, March 2011.
51. **Kamath BM (oral abstract – presenter)**, Hutchinson AL, Bauer RC, Gerfen J, Krantz ID, Piccoli DA, Spinner NB, Loomes KM. *NOTCH2* Mutations in Alagille Syndrome. European Association for the Study of Liver Diseases Annual Meeting, Berlin, Germany, March 2011.
52. Akimova T, **Kamath BM**, Goebel J, Myers K, Rand EB, Bucuvalas JC, Hancock W. Calcineurin inhibitors affect Foxp3 Demethylation and T regulatory cell function in pediatric liver and kidney transplant recipients. Oral presentation. American Transplant Congress. Philadelphia, PA, May 2011.
53. Woolfson J, Ng VL, **Kamath BM**, Avitzur Y, Jones N, John P, Ling SC. Feasibility and safety of hepatic venous pressure gradient measurement in children with liver disease. Poster presentation. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Orlando, Florida, November 2011.

54. Mouzaki M, Bass L, Piccoli DA, Heubi J, Rosenthal P, Miller H, Baker A, Spinner NB, Beyene J, **Kamath BM (oral abstract – trainee presentation)**. Modeling Liver Disease Outcome in an International Multi-center Cohort of Alagille Syndrome Patients. American Association of the Study of Liver Diseases Annual Meeting, San Francisco, November 2011.
55. Mouzaki M, Yap J, Avinashi V, Babu A, Fu A, Deangelis M, Murch K, Ghanekar A, Ling S, **Kamath BM**, Avitzur Y, Fecteau A, Jones N, Ling S, Grant D, Ng V. Basiliximab to allow delayed introduction of Calcineurin inhibitors as Renal sparing Protocol in Pediatric Liver Transplant Recipients. Poster presentation. American Association of the Study of Liver Diseases Single Topic Conference, Atlanta, March 2011.
56. Kaye AJ, Porrett PM, **Kamath BM**, Rand EB, Olthoff KM. Impact of Center Experience on Pediatric Liver Segmental Graft Outcomes - A 12-Year Experience. **(oral abstract – trainee presentation)**. International Pediatric Transplant Association meeting, Istanbul, Turkey, April 2009.
57. Kaye AJ, Rand EB, Flake A, **Kamath BM**. Alagille Syndrome: Outcome Comparison of Conservative Treatment versus Kasai Procedure. Poster presentation at American Pediatric Surgical Association Annual Meeting, Puerto Rico, May 2009.
58. Sundaram SS, Fredericks EM, **Kamath BM**, Haber B, Raghumathan T, Magee JC, Bezerra JA, Karpen SJ, Kerkar N, Rosenthal P, Schwarz KB, Shepherd RW, Shneider BL, Whittington PF, Robuck PR, and Sokol RJ: A multicenter cross sectional assessment of quality of life in biliary atresia patients aged 2-25 years. Poster presentation. American Association of the Study of Liver Diseases Annual Meeting, Boston, November 2009.
59. **Kamath BM**, Loomes KM, Podkameni G, Munoz P, Piccoli DA, Spinner NB, Meyers K. Renal Anomalies in Alagille Syndrome: Prevalence and Characterization. Poster presentation. American Association of the Study of Liver Diseases Annual Meeting, Boston, November 2009.
60. **Kamath BM (oral abstract – presenter)** and Spinner, NB. Variable Expressivity in Alagille Syndrome – Time to Redefine the Syndrome. First Prize. Alex Mowat Meeting in Pediatric Hepatology, King's College Hospital, London, UK, April 2008.
61. **Kamath BM (oral abstract – presenter)**, Munoz PS, Chen Z, Zhao H, Spinner NB, Piccoli DA. A Longitudinal Study to Identify Biochemical Predictors of Liver Disease Outcome in Alagille Syndrome. American Association of the Study of Liver Diseases Annual Meeting, San Francisco, November 2008.
62. Spinner NB, Greco AJ, Thiel BT, Glessner J, Munoz PS, Gai X, Piccoli DA, Grant SFA, Hakonarson H, Krantz ID, **Kamath BM**. SNP array mapping of 20p deletions: genotypes, phenotypes and copy number variation. Poster presentation. American Society of Human Genetics Annual Meeting, October 2007.
63. **Kamath BM (oral abstract – presenter)**, Krantz, ID, Piccoli DA, Spinner NB. The Spectrum of Clinical Findings Associated with JAG1 Mutations. Second Prize, Komarov Competition. Temple University, Philadelphia, June 2004.
64. **Kamath BM (oral abstract – presenter)**, Warthen DM, Moore EC, Yehuda S, Morrissette JJD, Spinner NB. Increasing the *Jagged1* Mutation Detection Rate in Alagille Syndrome. AASLD Pediatric Single Topic Conference: Intrahepatic Cholestasis, Atlanta, September 2004.

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65. **Kamath BM (oral abstract – presenter)**, Spinner NB, Emerick KM, Booth C, Chudley, AE, Bason L, Piccoli DA, Krantz ID. Molecular etiology of vascular anomalies: The role of Jagged1 and the Notch Signaling Pathway. American Society of Human Genetics Annual Meeting. Baltimore, MD. October 2002.

NATIONAL

1. Ricciuto A, **Kamath BM**, Church P, Walters T, Ling SC, Frost K, Griffiths AM. Liver injury associated with anti-TNF therapy in pediatric IBD. GRIT Course, 2016. Prize for best Poster presentation. Canadian Digestive Diseases Week, February 2016.
2. Moura M, Roifman C, **Kamath BM**. Autoimmune hepatitis and hypothyroidism caused by a gain-of-function mutation of *STAT1*. Oral presentation. GRIT Course, 2015. Poster presentation, Canadian Digestive Diseases Week, February 2015.
3. Valentino P, Feldman B, Walters T, Griffiths A, Ling S, Pullenayegum E, **Kamath BM**. The Prevalence and Spectrum of Abnormal Liver Biochemistry in a Large Cohort of Children with Inflammatory Bowel Disease. Poster of Distinction. Canadian Digestive Diseases Week, February 2014.
4. McLean K, Gijzen V, Fung A, Daljevic T, Nalli N, Parekh R, **Kamath B**, Grasemann H, Ito S, Koren G, Mital S. Pharmacogenetics of Tacrolimus in Pediatric Solid Organ Transplant Recipients. Oral presentation. Canadian Society of Transplantation Annual Scientific Meeting 2012.

Invited Lectures

INTERNATIONAL

1. 45th Annual Aspen Conference on Pediatric Gastrointestinal Disease, July 2023.
 - a. The Patient with Autoimmune Hepatitis
 - b. Wilson Disease: New Guidance
 - c. Alagille Syndrome: Diagnosis and Natural History
 - d. IBAT inhibitors for Cholestatic Pruritus
2. How can Large Databases Address the Challenges of Rare Diseases? ASLD Conference: Multi-omics Approaches for Cholestatic Liver Diseases. June 2023.
3. Lessons from a Multi-national Consortium on Alagille Syndrome. Biliary Atresia – Controversies, Insights, Treatments. Emory University, Atlanta, Georgia USA. June 2023.
4. JAGGED vs. NOTCH: Clinical Implications. Clinical Scenarios in Pediatric Liver Disease: Genetic Intrahepatic Cholestasis. Institute of Liver and Biliary Sciences, Delhi India. March 2023.
5. Natural History of Liver Disease in Alagille Syndrome and Timing for Liver Transplantation. Clinical Scenarios in Pediatric Liver Disease: Genetic Intrahepatic Cholestasis. Institute of Liver and Biliary Sciences, Delhi India. March 2023.
6. ESPGHAN Monothematic Conference on Alagille Syndrome, Athens Greece. February 2023.
 - a. Cerebrovascular Involvement in ALGS.

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- b. Lessons Learned from GALA.
 - c. The Future of ALGS Research.
7. Alagille Syndrome: A Global Perspective on Natural History and Novel Therapeutics. Cholestasis Meeting, Lyons France. January 2023.
 8. Alagille Syndrome: Novel Therapeutics. Israeli Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Jerusalem, Israel. November 2022.
 9. Updates in Primary Sclerosing Cholangitis. Israeli Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Jerusalem, Israel. November 2022.
 10. Ileal bile Acid Transporters. Lecture to Adult Gastroenterologists, Shaare Zedek Hospital, Jerusalem, Israel. November 2022.
 11. Could this be Wilson Disease? Diagnosis and Management in Children. The Liver Meeting, Washington DC, USA. November 2022.
 12. Alagille Syndrome: A Global Perspective on Natural History and Novel Therapeutics. Transplant Grand Rounds, Mayo Clinic, Rochester, USA. August 2022.
 13. Ileal bile Acid Transporters. International Liver Congress, London UK. July 2022.
 14. Alagille Syndrome: A Multi-system Disorder. Jim Wright Lectureship, University of Alabama Grand Rounds. July 2022.
 15. The GALA study: New perspectives on Global Natural History and the effects of Maralixibat on Event-Free Survival in Alagille Syndrome. 10th International Symposium and Scientific Meeting on Alagille Syndrome, Cincinnati, OH, USA. June 2022.
 16. Alagille Syndrome: A Global Perspective on Natural History and Novel Therapeutics. UCSF Liver Center Seminar Series, San Francisco, USA. May 2022.
 17. Approach to a Liver Mass. International Pediatric Liver Symposium, Saudi Arabia, January 2022.
 18. Alagille Syndrome: An Update. International Pediatric Liver Symposium, Saudi Arabia, January 2022.
 19. Cholestatic Pruritus. NASPGHAN Annual Meeting, December 2021.
 20. Alagille Syndrome: A Global Perspective on Natural History and Novel Therapeutics. William and Rebecca Balistreri Lecture, Cincinnati Children's Hospital Medical Center, October 2021.
 21. Frailty and Sarcopenia in Children with Liver Disease. Daniel Miller Lecture Series, Children's Mercy Hospital, Kansas, USA, August 2021.
 22. Alagille Syndrome. Grand Rounds, Children's Mercy Hospital, Kansas, USA, August 2021.
 23. Rare Liver Disease – The Value of Collaboration. World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, June 2021.

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24. Alagille Syndrome. NASPGHAN Foundation Webinar, February 2021.
25. Liver Issues in IBD. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Postgraduate Course, November 2020.
26. Advancing the Management of Alagille Syndrome. NASPGHAN Satellite Symposium, November 2020.
27. “We need to talk...”: Strategies for Difficult Conversations. Professional Development Workshop, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Chicago, IL. October 2019.
28. Personalized Disease Models Using Induced Pluripotent Stem Cell Derived Models, AASLD 2019 Emerging Topic Conference: The Genomics Revolution, Washington DC, September 2019.
29. The Agelessness of Frailty in Liver Transplantation. International Liver Transplant Symposium, Toronto, May 2019.
30. Frailty and Sarcopenia: Relevant for Children? NYU Langone Pediatric Grand Rounds, Hassenfeld Children’s Hospital, NYU, NY. May 2019.
31. What’s Yellow Got to Do With It? Jaundice in Children and Teenagers. Pediatric Academic Societies Annual Meeting, Baltimore, Maryland. April 2019.
32. Stem Cell Models for Modeling Biliary Disease. Genes, Genomes and Pediatric Disease RAG Seminar, Children’s Hospital of Philadelphia, Philadelphia, Pennsylvania. April 2019.
33. Clinical Challenges in Alagille Syndrome. ILBS and ISPGHAN Meeting, Delhi, India (via Skype). March 2019.
34. Frailty and Sarcopenia: Relevant to Children? Primary Children’s Hospital, Pediatric Grand Rounds, Salt Lake City, Utah. December 2018.
35. Alagille Syndrome: A Multi-system Disorder. Children’s Hospital of Pittsburgh, Pediatric Grand Rounds. November 2018.
36. Interviewing for a Gastroenterology Position and Designing your Professional Path. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Third Year Fellows’ Conference, Scottsdale, Arizona. October 2018.
37. 40th Annual Aspen Conference on Pediatric Gastrointestinal Disease, July 2018.
 - a. Autoimmune Hepatitis: Diagnosis and Treatment
 - b. Acute Liver Failure in Children
 - c. Alagille Syndrome: What is still challenging?
 - d. Neonatal Cholestasis: Current Diagnostic Strategies
 - e. Management of Complications of Endstage Liver Disease
 - f. Sclerosing Cholangitis
38. Management of Alagille Syndrome and Moyamoya. 1st Annual Aspen Conference on Pediatric

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Cerebrovascular Disease and Stroke, July 2018.

39. What's New in Pediatric Liver Disease? Cholestasis Update 2018, Israeli Association for the Study of Liver Disease Conference, Tel Aviv, Israel. March 2018.
40. Ciliopathies and Hepatobiliary Disease. Cholestasis Update 2018, Israeli Association for the Study of Liver Disease Conference, Tel Aviv, Israel. March 2018.
41. Frailty in Children with Liver Disease. Paediatric Grand Rounds, Dana-Dwek Children's Hospital, Ichilov, Tel Aviv, Israel. March 2018.
42. Alagille Syndrome. GI Research Seminar, Schneider Children's Medical Center of Israel, Tel Aviv, Israel. March 2018.
43. Hepatotoxicity in the Treatment of Inflammatory Bowel Disease. American Association for the Study of Liver Diseases Focus Study Group Session at the Annual Meeting, Washington DC. October 2017.
44. Biomarkers of Hepatobiliary Injury and Fibrosis. Cincinnati Children's Medical Center Autoimmune Liver Disease Symposium, Cincinnati, OH. September 2017.
45. Frailty and Sarcopenia: Relevant to Children? 4th Annual James Ted Engle Liver Transplant Lecture, Cleveland Clinic, OH. September 2017.
46. Alagille Syndrome: Have Research Advances Impacted Clinical Care? Cleveland Clinic, Cleveland, OH. Research Seminar. September, 2017.
47. Alagille Syndrome. GI Grand Rounds. Boston Children's Hospital, Boston, MA. July 2017.
48. Alagille Syndrome: Update. Digestive Diseases Week, Chicago. May 2017.
49. The Liver Disease in Alagille Syndrome. Rare Disease Symposium, Sanford Burnham Prebys Institute, San Diego. May 2017.
50. Alagille Syndrome: Have Research Advances Impacted Clinical Care? Children's Hospital of Atlanta, Emory University School of Medicine. Research Seminar. October, 2016.
51. The Role of Liver Transplantation in Alagille Syndrome. Moss Visiting Lectureship, Emory University. Transplant Centre Grand Rounds, November 2016.
52. Alagille Syndrome – What's New? World Congress of Pediatric Gastroenterology, Hepatology and Nutrition Postgraduate Course, Montreal, Canada. October 2016.
53. Alagille Syndrome – A Multi-system Phenotype. Cade Alpard Visiting Professor Lectureship. Grand Rounds, Baylor College of Medicine, Texas, USA. September 2016.
54. Alagille Syndrome: Have Research Advances Impacted Clinical Care? Yale Liver Center Research Seminar, New Haven, Connecticut. June 2016.
55. Crucial Conversations. North American Society for Pediatric Gastroenterology, Hepatology and

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Nutrition Third Year Fellows' Conference, Scottsdale, Arizona. February 2016.

56. Nutritional Issues in Cholestatic Diseases. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Washington, DC. October 2015.
57. The Altruistic Donor. Studies in Pediatric Liver Transplantation (SPLIT) Annual Meeting, Cincinnati, OH, USA. September 2015.
58. Grants(wo)manship in the Pared Down Competitive Market. GWC Symposium, Digestive diseases Week, Washington D.C. May 2015.
59. Creating Your Professional Path. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Third Year Fellows' Conference, Scottsdale, Arizona. February 2015.
60. Navigating Challenges in Research Faced by Mid-Career Faculty. Research Skills Workshop, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting, Atlanta, GA. October 2014.
61. Alagille Syndrome: Failure of Notch Signaling. 10th Mowat Meeting, Kings College Hospital, London, UK. September 2014.
62. Paediatric Liver Allocation in North America. International Liver Transplant Symposium, London, UK. June 2014.
63. Research Update: Stem Cell Models of Alagille Syndrome – Biliary Disease in a Dish. Childhood Liver Disease and Research Network NIH-funded Consortium Face to Face Meeting, Baltimore, MD. June 2014.
64. Work-Life Balance. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Second Years Fellows' Conference, Scottsdale, Arizona. March 2014.
65. Research Seminar: Alagille Syndrome. Research Advances Impacting Clinical Care. King's College Hospital, London, U.K. April 2013.
66. State of the Art Lecture: Alagille Syndrome: Research Advances Changing Clinical Care. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Meeting. Salt Lake City, UT, USA. October 2012.
67. Outcomes in Liver Transplantation in Alagille Syndrome. Studies in Pediatric Liver Transplantation (SPLIT) Annual Meeting, Atlanta, GA, USA. October 2012.
68. Frailty in Children Awaiting Liver Transplantation. Studies in Pediatric Liver Transplantation (SPLIT) Annual Meeting, Atlanta, GA, USA. October 2012.
69. Alagille Syndrome: From Liver Disease to Stroke....and back to the Liver Again. Visiting Professor, Cincinnati Children's Hospital, Cincinnati, OH, USA. September 2012.
70. Interviewing and Negotiating for a Faculty Job. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Second Years Fellows' Conference, Scottsdale, Arizona. March 2012.

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71. A Career in Research. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Second Years Fellows' Conference, Scottsdale, Arizona. March 2012.
72. Pediatric Frailty Score: Moving Beyond PELD. Studies in Pediatric Liver Transplantation (SPLIT) Annual Meeting, Atlanta, GA, USA. September 2011.
73. Alagille syndrome: Liver Disease to Stroke in 2011. Mount Sinai Medical School Department of Pediatrics Research Seminar, New York, NY, USA. September 2011.
74. Alagille syndrome: From Liver Disease to Stroke. NIH-funded Young GI Investigator Series, Division of Gastroenterology, Hepatology & Nutrition, Texas Children's Hospital, Houston, Texas, USA. December 2010.
75. The Role of Defects in NOTCH Signaling in Alagille-associated Vasculopathy. American Heart Association International Stroke Conference, San Antonio, Texas, USA. February 2010.
76. Alagille Syndrome – Update. North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Postgraduate Course, National Harbor, MD, USA. November 2009.
77. Vascular Malformations in Alagille Syndrome: Should We Look? What Should We Do If We Find Them? American Association for the Study of Liver Diseases Focus Study Group Session at the Annual Meeting, San Francisco, CA, USA. November 2008.
78. Alagille Syndrome: Clinical and Genetic considerations. Mount Sinai Pediatric Liver Symposium, New York, NY, USA. April 2008.
79. "Alagille Syndrome: Scientific Research Update", "Alagille Syndrome: Bleeding and Blood Vessels", "Alagille Syndrome: Care Plan for Life & Transitioning". Fourth International Symposium on Alagille Syndrome, San Matteo, CA, USA. June 2008.
15. "Vascular Disease in Alagille Syndrome" and "Renal Disease in Alagille Syndrome". Alagille Syndrome Family Day, Children's Hospital of Connecticut, USA. October 2007.
16. Alagille Syndrome: Molecular Advances and Clinical Considerations. Division of Molecular Genetics, Guy's and St. Thomas' Hospital, UK. October 2004.

NATIONAL

1. Alagille Syndrome: A Multi-system Disorder. The Dominique and Lorraine Belcourt Symposium. Grand Rounds, Montreal Children's Hospital, November 2018.
2. Updates in Progressive Familial Intrahepatic Cholestasis. Canadian Association for the Study of Liver Diseases Paediatric Symposium, Canadian Digestive Diseases Week, Montreal Canada, February 2016.
3. Frailty in Paediatric Liver Transplant Candidates. Canadian Society for Transplantation Paediatric Group Annual Clinical Symposium, Montreal. February 2014.

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PROVINCIAL

1. Alagille Syndrome. GI Divisional Research and Teaching Rounds, Department of Paediatrics, McMaster University, Hamilton, Ontario. June 2013.
2. Alagille Syndrome: A Global Perspective on Natural History and Novel Therapeutics. GI Divisional Research and Teaching Rounds, Department of Paediatrics, McMaster University, Hamilton, Ontario. May 2022.

LOCAL

1. Pediatric Liver Disease for the Adult Hepatologist. UHN, Liver Rounds, Toronto, ON Canada. May 2021.
2. Alagille Syndrome: A Multi-System Disorder. Hospital for Sick Children Grand Rounds, Toronto, ON Canada. February 2021.
3. Frailty and Sarcopenia: Relevant to Children? Transplant and Regenerative Medicine Centre Rounds, Hospital for Sick Children, Toronto, ON, Canada. October 2018.
4. The Promise of Stem Cells: Growing Livers in a Dish. Grand Rounds, Department of Paediatrics, Hospital for Sick Children. Co-presenter, October 2017.
5. Paediatric Hepatology Update for the Adult Practitioner. Hepatology Update 2017, Sheraton Hotel, Toronto, ON, Canada. May 2017.
6. Application of iPSC Technologies to Understanding Cholangiopathies. Developmental and Stem Cell Biology Retreat, Ontario, Canada. April 2017.
7. Hepatobiliary diseases in Children. Society for Pediatric Radiology Body MRI Course. Toronto, Canada. September 2015.
8. Liver Disease in Childhood. PeRLs lecture to SickKids Paediatric Residents. SickKids, Toronto, Canada. November 2015.
9. Genetics of Cholestatic Disorders. Concepts in Medical Genetics. Course for Genetics Fellows and Residents. SickKids, Toronto, ON, Canada. May 2014.
10. Paediatric Hepatology Update for the Adult Practitioner. Hepatology Update 2014 at the MaRS Discovery District, Toronto, ON, Canada. May 2014.
11. Genetics of Cholestatic Disorders. New Developments in Prenatal Diagnosis and Medical Genetics. Symposium at Mount Sinai Hospital, Toronto, ON, Canada. May 2014.
12. Frailty in Pediatric Liver Transplantation. Transplant and Regenerative Medicine Centre Rounds, Hospital for Sick Children, Toronto, ON, Canada. February 2014.
13. Translational Research. Pediatric Research and Clinical Summer Program (PeRCS) Seminar Series. SickKids, Toronto, ON, Canada. July 2013.
14. Building a Research Team: Tips for the New PI. Clinician Investigator Program Seminar Series.

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University of Toronto, Toronto, ON, Canada. April 2013.

15. Frailty in Paediatric Liver Transplantation. Exercise in Solid Organ Transplantation (CIHR Planning Grant Symposium), Toronto ON, Canada. April 2013.
16. Workshop: Liver Disease in Teenagers. Annual Paediatric Update, (Annual CME Event by SickKids Dept. of Paediatrics), Toronto ON Canada. Kamath BM and Simon Ling. April 2013.
17. Where the Liver and Kidneys Meet: Alagille Syndrome. Division of Nephrology Research Rounds, Hospital for Sick Children, Toronto, ON Canada. December 2011.
18. iPS Stem Cell Models of Alagille Syndrome. Transplant and Regenerative Medicine Centre Rounds, Hospital for Sick Children, Toronto, ON Canada. October 2011.
19. Quick Hit Lecture: Biliary Atresia Screening. Annual Paediatric Update (Annual CME Event by SickKids Dept. of Paediatrics), Toronto ON Canada. April 2010.
20. Approach to Neonatal Jaundice – What the General Paediatrician Needs to Know. PERLS, Hospital for Sick Children (Resident Lecture Series). August 2010.
21. Approach to Neonatal Cholestasis. Image Guided Therapy Group Lecture Series, Hospital for Sick Children, Toronto, ON Canada. May 2010.
22. Alagille Syndrome: From Liver Disease to Stroke. Genetics & Genome Biology Program and Molecular Medicine Annual Program Retreat, Hospital for Sick Children Research Institute, Toronto ON Canada. April 2010.
23. Liver Disease in Kids – what happens when they grow up? Annual Hepatology Update, Toronto Western Hospital, UHN, Toronto, ON Canada. March 2010.
24. Alagille Syndrome – Time for a Redefinition. Genetics Grand Rounds, Hospital for Sick Children, Toronto, ON Canada. February 2010.
25. Alagille Syndrome. Division of Reproductive Biology, Mount Sinai Hospital, Toronto ON, Canada. January 2010.
26. Alagille Syndrome: Variability and Modifiers. Hepatology Rounds, Hospital for Sick Kids, Toronto, Canada. November 2007.

Media Appearances

- | | |
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| 2020 | Podcast: Bowel Sounds, Official podcast for the North American Society for Paediatric Gastroenterology, Hepatology and Nutrition |
| 2015 | CTV interview - Twins with Alagille Syndrome Awaiting Liver Transplantation |
| 2015 | CBC interview (aired nationally and on CNN), Twins with Alagille Syndrome Awaiting Liver Transplantation |
| 2015 | Press conference with multiple media outlets, SickKids - Update on Twin A following Liver Transplantation and Need for Second Live donor |
| 2015 | Press conference with multiple media outlets, SickKids - Update on Twin B following Liver Transplantation |
| 2015 | CTV interview – Baby with Alagille Syndrome Awaiting Deceased Donor |

2015 CTV and CBC interview – Update on Girl with Biliary Atresia following Liver Transplantation

H. Teaching and Design

1. Summary of Teaching & Education

I have demonstrated excellent teaching skills for trainees at all levels, as evidenced by sustained high evaluation scores. In further confirmation of my teaching abilities, I received the Divisional Teaching and Mentorship Award in 2012 and 2018. I have developed educational courses at national and international meetings with excellent evaluation scores. In terms of educational administration, I have committed substantial effort to the co-Chairing the Pediatric Research and Clinical Summer Program (PeRCS), which is a summer program for University of Toronto Medical Students. A major commitment for me in my teaching and education activity has been the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Fellows conferences for which I had a role first as a faculty member and then as a course director in redesigning both the second- and third-year fellows' curricula. These education activities have significant impact on trainees in the North American paediatric GI community. My most recent teaching and education commitment was largely in my role as Fellowship Program Director in a large program of 18-20 fellows.

2. Innovations and Development in Teaching and Education

I have made several innovative contributions in teaching and education. As the co-Chair of the Pediatric Research and Clinical Summer Program (PeRCS), I have been jointly responsible for developing a novel summer experience for 1st and 2nd year medical students which combines focused research experience with a dedicated supervisor with 25% exposure to clinical paediatrics. In my role as Fellowship Program Director, I have developed several innovations, including Liver Rounds (case-based teaching for fellows on a bi-weekly basis), Liver Journal Watch and a virtual OSCE during the pandemic.

Teaching Activity

Classroom/Lecture Teaching

2023	4 th Year Liver Transplant Fellow Lecture Series "Alagille Syndrome: Natural History of Liver Disease and Novel Therapeutics"
2022	American Association for the Study of Liver Diseases Transplant Hepatology Board Review Course. "Pediatric Metabolic Genetic Disorders"
2022	Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children "Alagille Syndrome"
2021	Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children "Alagille Syndrome" "Fat soluble vitamins in Cholestasis"

- 2020 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Alagille Syndrome”
“Sclerosing Cholangitis”
“Caroli Disease and Congenital Hepatic Fibrosis”
- 2019 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Wilson Disease”
“Bile Acids in Physiology and Disease”
- 2018 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Caroli Disease and Congenital Hepatic Fibrosis”
“Crucial Conversations and Negotiating”
- 2017 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Wilson Disease”
“Bile Acids in Physiology and Disease”
- 2016 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Alagille Syndrome: A True Multisystem Disorder”
“Caroli Disease and Congenital Hepatic Fibrosis”
“How to find a Job”
- 2015 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Benign Liver Masses”
“Approach to Raised Enzymes, Jaundice, Hepatomegaly”
- 2014 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Alagille Syndrome”
“Caroli Disease and Congenital Hepatic Fibrosis”
- 2013 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Wilson Disease”
“Benign Liver Masses”
- 2012 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Neonatal Cholestasis”
“How to find a Faculty Job”
- 2011 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Benign Liver Masses”

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- 2010 Fellow Divisional Teaching Lectures, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children
“Approach to Neonatal Jaundice”
“Alagille Syndrome”
“Budd-Chiari Syndrome”
“Caroli Disease and Congenital Hepatic Fibrosis”
“Approach to Raised Enzymes, Jaundice, Hepatomegaly”
- 2010 PERLS, Hospital for Sick Children (Resident Lecture Series)
“Approach to Neonatal Jaundice – What the General Paediatrician Needs to Know”
- 2007 Teaching lecture: Pediatric Residency Program, Children’s Hospital of Philadelphia “Liver Failure”
- 2005 Pediatric Clinicopathologic Conference, Children’s Hospital of Philadelphia
“Alagille Syndrome – a fatal case”
- 2004 Teaching lecture: Pediatric Residency Program, Children’s Hospital of Philadelphia
“Metabolic Liver Disease”

Recurrent Efforts:

- 2010-current Annual Teaching lecture: Masters in Genetics, University of Toronto
“Genetic Liver Diseases”
- 2010-9 Quarterly Joint Clinico-Pathologic Teaching to Adult GI and Pathology Trainees at Toronto General Hospital

Clinical/instructional Teaching

- 2013-current OSCE Organizer for GI Fellows, SickKids (annual effort)
- 2012 OSCE Examiner for Pediatric Residents, SickKids
- 2011 Preceptor to 1st Year Medical Student at University of Toronto, Paediatric Longitudinal Experience (PedLe)
- 2011 OSCE Examiner for Paediatric Residents, SickKids
- 2001-9 Mentor, History and Physical Examination Course for Medical Students, University of Pennsylvania
- 2007-8 PEDIAPAL – Mentor to specified intern in residency program, Children’s Hospital of Philadelphia

Teaching Leadership and Administration

- 2020-1 **Module Director**, Graduate Diploma in Health Research, University of Toronto

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(organized a summer lecture series for 2 years for medical students interested in pursuing a career in academic medicine)

- 2016 **Course co-Director**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Third Year Fellows' Conference, Scottsdale, Arizona
- 2015 **Faculty**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Third Year Fellows' Conference, Scottsdale, Arizona
- 2014 **Course co-Director**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Second Year Fellows' Conference, Scottsdale, Arizona
- 2013-19 **Co-Chair**, Residency Scholarship Committee (oversight over SickKids' paediatric resident research activities)
- 2013 **Course Director**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Second Year Fellows' Conference, Scottsdale, Arizona
- 2012-17 **Co-Chair**, Pediatric Research and Clinical Summer Program (PeRCS) (Summer program for University of Toronto Medical Students combining research and clinical exposure and a lecture series)
- 2012 **Faculty**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Second Year Fellows' Conference, Scottsdale, Arizona
- 2010 **Faculty**, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition First Year Fellows' Conference, Fort Lauderdale, Florida

Lay Educational Efforts

- July, 2021 PFIC Family Conference
"Pruritus: What is Known?"
- Aug, 2020 Alagille Syndrome Alliance and SPLIT Webinar
"Alagille Syndrome and Liver Transplantation"
- Sept, 2020 Alagille Syndrome Alliance Virtual Roundtable: What Matters to Families
"Itch: Overview"
- June, 2019 8th International Family Symposium on Alagille Syndrome, Cincinnati, OH
"The Global Alagille Syndrome Alliance (GALA) study"
"Alagille Syndrome: Vascular and Heart"
"Alagille Syndrome: Building a Support System"
- Sept, 2012 **Course Director**: Canadian Wilson Disease Family Symposium

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- Mar, 2011 **Course Director:** “Get Liver Smart – Family Education Day for Alagille Syndrome and Biliary Atresia patients”, Hospital for Sick Children
- June, 2008 Fourth International Family Symposium on Alagille Syndrome, San Matteo, CA
“Alagille Syndrome: Scientific Research Update”
“Alagille Syndrome: Bleeding and Blood Vessels”
“Alagille Syndrome: Care Plan for Life & Transitioning”
- Oct, 2007 Alagille Syndrome Family Day, Children’s Hospital of Connecticut
“Vascular Disease in Alagille Syndrome”
“Renal Disease in Alagille Syndrome”

I. Research Supervision

MASTERS STUDENTS

2011-2012

Advisory Committee for Institute of Medical Science Masters Degree

Lyndsay Stephenson BSc, Biomedical Communications student, University of Toronto
“An iPad Application for Biliary Atresia” (Family Education Tool)
Vesalius Trust Award for Outstanding Biomedical Illustration Project
Award of Merit from the Association of Medical Illustrators for Biliary Atresia Project

2012-2015

Advisory Committee for Institute of Medical Science Masters Degree

Stephen Wu, BSc, University of Toronto
“Liver Disease in ARPKD”

POSTDOCTORAL STUDENTS

2022-

co-Supervisor for Research

Or Steg Saban, GI Fellow
“Sarcopenia in Liver Disease”

2021-

Supervisor for Research

Michael Shpoliansky, GI Fellow
“A Pilot Study of Thigh US to Assess Sarcopenia”

2020-

Supervisor for Research

Mohammed Ayoub, GI Fellow
Advisory Committee for Institute of Medical Science Masters Degree
“Serum transaminases in Alagille Syndrome”

2019 - 2022

Supervisor for Research

Saleh Al-Qatani, GI Fellow

“Wilson Disease in Children”

2015 - 18

co-Supervisor for Research

Eberhard Lurz, GI Fellow

“Frailty in Children with Liver Disease”

2016-17 SickKids Transplant Centre Research Fellowship (\$75,000)

World Congress for Pediatric Gastroenterology, Hepatology and Nutrition Young Investigator Travel Award, Montreal 2016 (Oral presentation)

Canadian Society for Transplantation Trainee Research Award for Best Paediatric Transplant Abstract, 2016

2015-19

co-Supervisor for Research

Advisory Committee for Institute of Health Policy, Management and Evaluation PhD

Amanda Ricciuto, GI Fellow

Currently: Staff Physician, Division of Gastroenterology, Hepatology and Nutrition, Hospital for Sick Children, Toronto

“The Phenotype of IBD in PSC-IBD”

2015 Canadian Association of Gastroenterology Fellowship Award (\$5000)

2016 Best Poster presentation, GRIT, Montreal, Canada

2016 Canadian Liver Foundation Graduate Studentship Award (\$40,000)

Winner of the 2016 Dick Hamilton Award for Outstanding Fellow in the Division of Gastroenterology, Hospital for Sick Children

2017 Restracom Funding, SickKids Research Institute (\$40,000 annually for 4 years)

2017 Exceptional Trainee Award, Child Health Evaluative Sciences program, SickKids Research Institute

2017 Fellow Research Award, NASPGHAN

2017 Fellow to Faculty Transition Award in IBD, NASPGHAN (\$75,000)

2019 Sass-Kortsak Award

2013-18

Research Supervisor

Advisory Committee for Institute of Health Policy, Management And Evaluation Masters Degree

Andreanne Benidir MD, GI Fellow

Currently: Staff Physician, Division of Gastroenterology, Hepatology and Nutrition, London Health Sciences Centre, London, Ontario

“The Spectrum of Liver Involvement in SLE”

2011-2014

Research Supervisor

Advisory Committee for Institute of Health Policy, Management and Evaluation Masters Degree

Pamela Valentino MD, GI Fellow

Currently: Staff Physician, Division of Gastroenterology, Hepatology and Nutrition, Yale, New Haven USA

“The Spectrum of Liver Involvement in Inflammatory Bowel disease”
2012 Canadian Association of Gastroenterology Fellowship
Award (\$5000)
2012 Ontario Graduate Scholarship Program (OGS) (Merit-based
scholarship for master's and doctoral level students) (\$15,000)
2012 NASPGHAN Single Topic Symposium (IBD) Travel Award
2014-15 Canadian Association for the Study of the Liver (CASL)
Clinical Hepatology Fellowship (will utilize this award for 4th year of
training at Boston’s Children’s Hospital)
2014 Exceptional Trainee Award, Child Health Evaluative Sciences
program, SickKids Research Institute
Winner of the 2014 Dick Hamilton Award for Outstanding Fellow
in the Division of Gastroenterology, Hospital for Sick Children

2010-12

co-Supervisor for Research

Advisory Committee for Institute of Medical Science Masters
Degree

Marialena Mouzaki MD, GI Fellow

Currently: Staff Physician, Division of Gastroenterology, Hepatology
and Nutrition, Cincinnati Children’s Hospital, US

“A Model to Predict Hepatic Outcomes in Alagille Syndrome”
Winner of the 2012 Dick Hamilton Award for Outstanding Fellow
in the Division of Gastroenterology, Hospital for Sick Children

SUMMER STUDENTS

2022

Emma Broer, Medical Student, RSCI

2022

Samantha Tse, Undergraduate Student, University of Toronto

2020-1

Mohamed Taleb, co-op Student, Ryerson University

2018

Fiona Lee, Undergraduate Student, Western University.

2018

Aishwarya Parmar, Undergraduate Student, Ryerson University.

2017

Ahmed Shakeri, Undergraduate Student, University of Toronto
Bile acids in iPSC-derived cholangiocytes.

2011 & 2012

Alexander Hrycko, BSc, Medical Student, Royal College of Surgeons in
Ireland
“Bile duct complications After Paediatric Liver Transplantation”
“Liver Disease in Ciliopathies”

2013

Leora Branfeld Day, Medical Student, University of Toronto (PeRCs
program)
“Liver Disease in Bardet-Biedl Syndrome”

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