



NASPGHAN **FOUNDATION**

For Children's Digestive Health & Nutrition

MISSION STATEMENT

The NASPGHAN Foundation funds and supports the professional and patient education and research missions of NASPGHAN.



The mission of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition is to be a world leader in research, education, clinical practice and advocacy for Pediatric Gastroenterology, Hepatology and Nutrition in health and disease.

2021 ANNUAL REPORT

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The NASPGHAN Foundation is organized exclusively for charitable, scientific, and educational purposes as defined in section 501(c)(3) of the Internal Revenue Code of 1986 and receives an annual audit.

Copies of the Federal Form 990 Tax Return for organizations exempt from tax are open for public inspection and can be obtained by contacting the National Office.

NASPGHAN Foundation
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<https://naspghan.org/naspghan-foundation> →

Dear Colleagues and Friends:

I am proud to present the biennial report of the NASPGHAN Foundation and thankful for the effort and dedication of so many who have kept us on solid ground through these difficult two years. The finances of the Foundation remain strong and this has allowed us to sustain our grant portfolio and support a wide range of educational activities for NASPGHAN members.

During our recent Foundation strategic planning meeting, the Foundation updated its mission as follows: **The NASPGHAN Foundation funds and supports the professional and patient education and research missions of NASPGHAN.** This continues to include the support of state of the art research and educational experiences for our membership, our patients, and their families. Our grants program supports work in basic, clinical, and quality-improvement research for NASPGHAN/CPNP and APGNN members, not only for young investigators, but also for mid-career and established investigators. Over the years, Foundation support of research has not only set the stage for important advancements in our field, but also helped launch successful careers for many of our colleagues.



Menno Verhave, MD

The education activities supported by the Foundation provide important learning opportunities for our members, our referring primary care colleagues, and our patients and families. The growth of our educational offerings including webinars, slide decks and patient materials are outlined in this report. Thanks to the ongoing support of our partners, we have been very successful even during the pandemic.

This report will summarize our current grant program and recognize the recipients of our grants and awards. We are also pleased to report support for a new grant to support research in pancreatic disease.

Our success depends on the work of so many, but begins with an amazing team of individuals who volunteer their time and efforts to the Foundation, including the Executive Committee, Board of Directors, Advisory Board, NASPGHAN committees, and the many leaders and contributors to our grant review process, and our many educational and patient focused education campaigns. And of course, none of this would be possible without the talented team in the “home office”. We all owe thanks to our Corporate Partners who provide the support for our educational programs and career advancing opportunities for trainees and junior faculty. I also want to recognize our ongoing partnership and support from the Crohn’s & Colitis Foundation for its support of a young investigator in the field of pediatric IBD research and educational materials for children and their families who are coping with inflammatory bowel disease.

Finally, I want to thank the NASPGHAN membership and members of our affiliate organizations who support the Foundation through charitable donations. Your engagement and generosity is critical to the future of our specialty.

A handwritten signature in black ink that reads "Menno Verhave". The signature is stylized and cursive.

Menno Verhave, MD
President, NASPGHAN Foundation



INDEPENDENT AUDITOR'S REPORT

**Board of Directors of
The NASPGHAN Foundation
Ambler, Pennsylvania**

We have audited the accompanying financial statements of The NASPGHAN Foundation (a nonprofit organization and subsidiary of North American Society for Pediatric Gastroenterology, Hepatology and Nutrition), which comprise the statement of financial position as of December 31, 2020, and the related statements of activities, functional expenses, and cash flows for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of The NASPGHAN Foundation as of December 31, 2020, and the changes in its net assets and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Report on Summarized Comparative Information

We have previously audited The NASPGHAN Foundation's 2019 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated July 30, 2020. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2019 is consistent, in all material respects, with the audited financial statements from which it has been derived.

BBD, LLP

**Philadelphia, Pennsylvania
July 22, 2021**

(DEI) INITIATIVES



DIVERSITY EQUITY AND INCLUSION (DEI) INITIATIVES

◆ **TEACHING AND TOMORROW UNDERREPRESENTED IN MEDICINE (URIM) PROGRAM**

The Pediatric GI Teaching and Tomorrow Program of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) strives to attract the brightest residents to subspecialty training in pediatric gastroenterology, hepatology and nutrition. Due to the excellent interest in this innovative NASPGHAN program, we have seen a gradual growth in the interest and application to GI training programs through the years. This year, we are enthusiastically expanding the Teaching and Tomorrow Program to provide up to ten scholarships to interested 1st year pediatric residents and 4th year medical students who self-identify as Underrepresented in Medicine (URIM). In addition to networking with other participants while attending the program's scheduled sessions, the URIM program attendees would be matched up with a NASPGHAN fellow and/or attending physician (a Teaching and Tomorrow Program alumnus) who will serve as a point of contact and ambassador to the Annual Meeting.

Supported by an educational grant from Takeda Pharmaceuticals Inc.

◆ **URIM NASPGHAN/NASPGHAN FOUNDATION MEDICAL STUDENT MENTORED SUMMER RESEARCH PROGRAM**

Purpose: To develop a program at multiple sites throughout the U.S. and Canada through which a medical student can have 10-week research experiences under the mentorship of basic or clinical scientists with a research focus in pediatric gastroenterology, hepatology, or nutrition. Students, who self-identify as Underrepresented in Medicine (URIM), in good standing at accredited medical schools in the U.S. and Canada who have completed at minimum their first year of medical training will be eligible for scholarships. Preference will be given to students who are seeking a research experience between the first and second years of medical school, though applications from all currently enrolled students will be considered. Successful applicants will receive a stipend and travel and living expenses.

Supported by an educational grant from Takeda Pharmaceuticals Inc.

EDUCATION



EDUCATION

The Foundation supports the educational mission of NASPGHAN through a diverse portfolio of professional and public education initiatives. The Foundation's goal is to educate medical professionals and the public, and to support the development of new knowledge through research. The primary objectives are to improve the quality of life and to improve health outcomes through education, early detection and evidence-based care.

The COVID-19 pandemic has presented a major challenge to health care at many levels. The Foundation has been at the forefront of providing support and education to the members of NASPGHAN and the patients and families we serve.

EDUCATIONAL RESOURCES

◆ **NASPGHAN LearnOnLine**

NASPGHAN LearnOnLine is our go-to site for continuing education, housing all of our educational offerings in one location. Many of the over 200 offerings are available for CME and MOC Part II credit.



NEW IN 2020-2021

Webinars and On-Demand Educational Modules

◆ **FOUR-PART SERIES ON PARENTERAL NUTRITION**

The four part series includes:

▶ **LATEST GUIDANCE ON PARENTERAL NUTRITION**

Parenteral nutrition is a modern medical miracle for patients with gastrointestinal issues that need nutrition. However, parenteral nutrition has some potential risks and long-term side effects. Therefore, the biggest question about parenteral nutrition is who to start it on and when? This webinar examines new guidelines concerning the decision on when parenteral nutrition should be started and on whom, the importance of monitoring nutrition needs and when to make adjustments, and how to limit the potential risks to get the best outcomes in those patients that require this lifesaving therapy. ➔

▶ **UPDATE ON ALTERNATIVE LIPIDS**

Infants and children requiring prolonged parenteral nutrition may receive an intravenous fat in the form of soybean oil, fish oil, or composite lipid emulsion. Depending on patient characteristics, including age, nutritional status, and comorbidities, certain IV lipid emulsions may be preferable to others. This webinar examines the different IV lipid emulsions used, describes the rationale for IV lipid emulsion selection, helps explain essential fatty acids and deficiencies and offers future direction and application. ➔

▶ **UPDATING NEONATAL PARENTERAL NUTRITION: NOW AND THE FUTURE**

Neonates, particularly preterm neonates who are born with significant nutrient deficits, accumulate increasing nutrient deficits during their stay in neonatal intensive care. This webinar reviews recent international guidelines for the management of parenteral nutrition support, discusses the considerations in the optimal balance of amino acids for neonatal growth and reviews the evidence for use of parenteral lipids to better meet essential fatty acid requirements critical for neurodevelopment. Controversies in the timing of parenteral nutrition support and how new approaches to support transitioning to enteral nutrition might improve growth outcomes in the NICU are also discussed. ➔

▶ **LONG-TERM CENTRAL VENOUS ACCESS MANAGEMENT IN PEDIATRIC INTESTINAL FAILURE**

Children with intestinal failure require long-term central venous access to provide them with fluids and/or nutrition. Complications of this access contribute to significant morbidity and mortality with loss of access becoming an increasingly common indication for intestinal transplant referral. Advances have occurred in prevention of complications and management of central venous access for children with intestinal failure, but practices vary widely among centers. This webinar looks at the current evidence and recent recommendations for general principles to optimize central venous access management of children with intestinal failure. ➔

Supported by an educational grant from Fresenius Kabi.

◆ **ADVANCES IN DIAGNOSIS AND TREATMENT OF ALAGILLE SYNDROME**

Alagille syndrome (ALGS) is a multi-system autosomal dominant disorder that often presents with neonatal cholestasis. Ongoing research has led to important advances in our understanding of ALGS. This webinar focuses on the state-of-the-art in genomic diagnostics, multi-center studies of disease outcome and new therapeutic options. A summary of how our knowledge of the genetics and pathophysiology of ALGS might lead to new therapies is also offered. ➔

Supported by educational grants from Mirum Pharmaceuticals, Albireo Pharma, Inc and Travers Therapeutics.

◆ **TRANSNASAL ENDOSCOPY: GOING WHERE WE HAVE NEVER GONE BEFORE**

Transnasal endoscopy (TNE) is a rapidly expanding, novel approach to perform unsedated upper gastrointestinal esophagoscopy in pediatrics. The purpose of this webinar is to gain understanding of the

technique of TNE and the core elements of a TNE team, i.e. learn how to create and finance a TNE program, and review innovative research on transnasal duodenal imaging techniques. Topics covered include: a discussion of the clinical application of TNE in the real-world practice; a review of the comprehensive procedural processes within TNE; the financial considerations and implications of TNE practice; and updates on innovative research on duodenal imaging utilizing an unsedated, transnasal procedure in infants. ➔

Supported by an educational grant from Olympus America, Inc.

◆ **TELEHEALTH FOR PEDIATRIC GASTROENTEROLOGY**

The transition to Telehealth has never been timelier than during the COVID-19 pandemic. This presentation targets GI practices that are about to start or have recently started Telemedicine to help you ease into the new world of virtual health care. Sessions on technical issues with video platforms, documentation and billing, telehealth practice management and in-patient rounds and education are covered. ➔

Supported by educational grants from Abbott, Takeda Pharmaceuticals, Inc., Gerber Products Company, Reckitt Mead Johnson Nutrition, Nutricia North America, Inc. and Innovative Health Solutions.

◆ **NUTRITION AND LIVER DISEASE IN PEROXISOMAL BIOGENESIS DISORDERS: DIAGNOSIS AND MANAGEMENT**

Zellweger Spectrum Disorder (ZSD) represents a group of rare disorders affecting multiple organ systems. Patients and caregivers of patients with ZSD need advanced educational exposure in order to understand the liver and nutritional problems faced by these patients, along with the treatment options available to optimize the management of affected patients. Since caregivers are the best advocates for affected infants, children and adolescents, improving their knowledge in these areas should help to bring new advances to the attention of their medical care providers and thereby help to optimize the outcomes of ZSD patients. The latest treatment options for liver disease and nutrition designed to optimize the management of affected patients is discussed. ➔

Supported by an educational grant from Travers Therapeutics.

◆ **EOSINOPHILIC GI DISEASES: BEYOND THE ESOPHAGUS (Coming - December 1)**

Eosinophilic gastritis (EG), gastroenteritis (EGE) or colitis (EC) are rare diseases with very little known about even the most fundamental aspects of the diseases. Given the difficulty in recognizing these conditions and the gaps in our knowledge, this webinar will help participants understand the signs and symptoms of EGIDs; define the current state of the best practices for the diagnosis of EGIDs; understand the proposed mechanisms of disease; and define the state of the art for treatment.

Supported by an educational grant from Allakos, Inc.

◆ **A PRACTICAL APPROACH TO NUTRITIONAL MANAGEMENT OF CHILDREN WITH CHOLESTATIC LIVER DISEASES: TIPS FOR PATIENTS AND CAREGIVERS**

(Coming - December 8)

Children with cholestatic liver diseases have unique nutritional requirements and require formulas with special fat preparations, as well as intensive monitoring to ensure adequate growth. Designed for patients and caregivers, this webinar discusses the nutritional considerations of children with cholestasis, with special emphasis on nutritional support and vitamin/micronutrient deficiencies. The expert speaker panel will provide an overview of the clinical presentation and long-term implications of malnutrition and fat-soluble vitamin deficiencies in children with cholestatic liver disorders; bring forth current available formulation and practical tips for the care provider; review the currently available vitamin supplements, formulations; and more.

Supported by educational grants from Mirum Pharmaceuticals and Albireo Pharma, Inc.

◆ **MEDICAL MANAGEMENT OF CHRONIC PANCREATITIS (CP) IN CHILDREN: MAXIMIZING TREATMENT AND IMPROVING OUTCOMES**

(Coming - Winter 2022)

This webinar will summarize the current understanding of the medical management of CP in children by reviewing the existing medical literature and incorporating recent advances in understanding of nutrition, pain, lifestyle considerations, and sequelae of CP. Early diagnosis of exocrine insufficiency, and endocrine insufficiency are key. Concepts and controversies related to pancreatic enzyme replacement therapy (PERT), the use of antioxidants and other CP medical therapies will be reviewed. Highlights include medical decision-making for PERT, CP-related diabetes, and multimodal pain management (including an analgesia ladder). Gaps in our understanding of CP in children and avenues for further investigations will also be discussed.

Supported by an educational grant from AbbVie, Inc.

◆ **HEPATITIS C SLIDE SET AND GRAND ROUNDS**

HCV infection in children is frequently unrecognized. Recently proposed universal testing strategies during pregnancy need to be implemented, and although liver disease is generally mild in children, chronic hepatitis and cirrhosis does occur. There is a wide range of pressing needs regarding screening, diagnosis, increasing awareness in order to achieve the ultimate goal of disease eradication. Components of the program include an informational slide deck and a thirty-city Grand Rounds program with the goal of increasing HCV awareness. The slide set will be available on LearnOnline for CME and MOC Part II credit. In 2022, members will have access to the slide set. In addition, new patient information has been added to the GIKids website.

Supported by an educational grant from Gilead Sciences.

◆ **THE ABCS OF EGIDS**

The NASPGHAN Foundation and CEGIR (Consortium of Eosinophilic Gastrointestinal Researchers) developed a web-based education series on Eosinophilic Esophagitis (EoE). The program consists of nine modules with 26 presentations. After participating in the on-line lectures, the attendees will be

able to understand the pathophysiology of EoE; know the clinical presentations and initial evaluation of a patient with EoE including the differential diagnosis of EoE; and understand the therapeutic options for treatment of EoE and how to monitor a patient after treatment. ➔

Supported by an educational grant from Takeda Pharmaceuticals America, Inc.

◆ **NUTRITION CURRICULUM FOR PEDIATRIC GASTROENTEROLOGY FELLOWS**

This didactic curricula with self-learning modules covers topics including: nutritional assessment, basic nutritional physiology, micronutrients, feeding, malnutrition, nutritional support for GI and non-GI conditions, obesity, macronutrients/formula composition and more. The Nutrition Course is designed for use in pediatric GI fellowship training programs. ➔

Supported by an educational grant from Nestlé Health Sciences and Nestlé Infant Nutrition.

◆ **NASPGHAN NUTRITION UNIVERSITY (N²U)**

This course is designed to provide specialized nutrition education in areas associated with the practice of pediatric gastroenterology and nutrition to 3rd year fellows, junior faculty and dietitians. It targets two groups: candidates who received minimal nutrition education during their fellowship or who plan to pursue pediatric nutrition as their career focus. The course includes “hot” topics discussions and a nutrition Jeopardy competition, along with a series of challenging cases which are presented in a small group setting. Topics covered include diagnosis of pediatric malnutrition; failure to thrive and feeding disorders; micronutrient deficiencies; critical care nutrition; short bowel syndrome/malabsorption; obesity; nutritional management of cystic fibrosis; food allergy and eosinophilic esophagitis; nutritional therapy in inflammatory bowel disease and nutrition support in chronic liver disease. ➔

Supported by an educational grant from Nutricia North America.

◆ **DOC4ME V.2**

As many as 1/3 of patients with inflammatory bowel disease (IBD) patients present in the first two decades of life. As a result, many inflammatory bowel disease patients must undergo the transition process, where their care is transferred from a pediatric-centered service to an adult-care service. The Doc4me app helps adolescents and young adults with inflammatory bowel disease find a doctor who treats adults with inflammatory bowel disease in a specific area. Doc4me also helps young people get ready for their medical visit with their new doctor by knowing what to bring and how to prepare. A transition checklist is also provided based on age to help adolescents and young adults identify and seek resources for skills and knowledge not yet mastered. The updated version includes:

- ▶ A searchable directory of IBD physicians has been updated to include pediatric IBD physicians. If you are not already included on the app, please contact (doc4me@rchsd.org)
- ▶ Vetted resources and links have been updated.

Reminder: The Doc4me app is intended for DIRECT PATIENT USE but can also be used by clinicians to help patients navigate the transition from pediatric to adult-centered care. The new version can be downloaded from the Apple Store and Google Play.

Supported by an educational grant from Takeda Pharmaceuticals America, Inc.

COMING

toolbox FELLOWS TOOLBOX WEBSITE

The new NASPGHAN Toolbox website is designed to deliver pediatric gastroenterology information to care providers in a format that is user friendly. The toolbox provides easy access to clinical guidelines for pediatric gastroenterologists and trainees and will now be available as a distinct website linked from the NASPGHAN website. Features of the Toolbox include algorithms to navigate clinical guidelines for various diseases; high quality images of GI pathology; helpful tables on managing nutritional needs; scores and calculators to assist in calculating important pediatric GI scores; and a convenient search feature. →

Supported by an educational grant from Reckitt Mead Johnson Nutrition.

DIGEST DIGITAL INTERACTIVE GASTROENTEROLOGY EDUCATION SUITE FOR TRAINEES (DIGEST)

DIGEST is a free, online curriculum for resident-level learners in pediatric gastroenterology. DIGEST allows learners to asynchronously participate in knowledge transfer of core gastroenterology topics and increase confidence and skills related to general pediatric gastroenterology procedures.

Supported by an educational grant from Abbott.

UPDATED RESOURCES on GIKids

An excellent resource for children and families on the diagnosis and management of pediatric digestive disorders, the GIKids site is continuously updated with new content and current topics. All materials are available in English, Spanish and French. PDF downloads make providing the information to patients and their families stress-free. →

RECENTLY ADDED AND UPDATED TOPICS INCLUDE THE FOLLOWING:

Acute and Chronic Pancreatitis	Hepatitis B	NAFLD
Cystic Fibrosis	Hepatitis A	Nasogastric Tubes
FPIES	Hirschsprung's Disease	pH Impedance Study
Functional Dyspepsia (Non-Ulcer Dyspepsia, Indigestion)	Hydrogen Breath Test	Sitz Marker Study
Gastrointestinal Polyps	Introduction to Peanuts	Solids
Gilbert's Syndrome	Introduction to Solids	
	Liver Biopsy	

Also, a NEW search feature has been added to the GIKids site, allowing practitioners and families to quickly get to the information they need.



RESEARCH

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25-30 cal

RESEARCH

The NASPGHAN Foundation is dedicated to:

- ▶ Advancing medical knowledge and technology
- ▶ Caring for patients with digestive disorders
- ▶ Educating physicians and the public
- ▶ Supporting affected children and their families

While broad in nature, these activities are integrally linked and rely on research for their advancement. In this context, the NASPGHAN Foundation has been a source of research support and leading partners with government, industry, and relevant agencies to help fund research initiatives.

GRANTS AND AWARDS

The future of our subspecialty rests with its trainees and young professionals. A pipeline of research talent into NASPGHAN will ensure the long-term vitality of our profession as practitioners of state-of-the-art, evidence-based medicine.

The Foundation has awarded more than 100 investigator-initiated grants totaling more than \$10,000,000 to NASPGHAN members with an outstanding track record of converting these awards into NIH and CIHR-funded grants.

◆ **NASPGHAN Foundation/Alcresta Research Award for the Study of Pancreatic Disease in Children for Pediatric GI Fellows and Junior Faculty**

Coming in 2022, this award will support studies focused on improving patient outcomes in areas of unmet medical needs with a focus on pancreatic insufficiency or fat malabsorption, which results in malabsorption common in cystic fibrosis, digestive cancers, preterm birth, and other serious diseases. ➔

Supported by an educational grant from Alcresta Therapeutics.

Crohn's & Colitis Foundation/NASPGHAN Foundation IBD Young Investigator Award

This grant, in partnership with the NASPGHAN Foundation and the Crohn's & Colitis Foundation, is available to research fellows or junior faculty. Applications must propose original clinical, translational, epidemiological, or basic scientific research that is related to pediatric inflammatory bowel disease.

► **2020—Cambrian Liu, PhD**

Children's Hospital Los Angeles, Los Angeles, CA

SQUAMOUS CELL-MEDIATED COLONIC WOUND HEALING FOR INFLAMMATORY BOWEL DISEASE

► **2021—Marco Di Gioia, PhD**

Boston Children's Hospital, Boston, MA

CONTROL OF INFLAMMATORY BOWEL DISEASE (IBD) BY ENDOGENOUS OXIDIZED PHOSPHOLIPIDS



Cambrian Liu, PhD



Marco Di Gioia, PhD



Matthew Egberg, MD,
MPH, MMSc



Rachel Chevalier, MD

NASPGHAN Foundation/Nestlé Nutrition Research Young Investigator Development Award

This grant is available to junior faculty to support research activities that have the potential for evolution to an independent research career in pediatric gastroenterology, hepatology or nutrition. This grant is awarded to support a meritorious basic or clinical research project relating to nutrition in infancy, childhood or adolescence.

► **2020—Linda Wang, MD**

Children's Hospital Los Angeles, Los Angeles, CA

THE ROLE OF MALRD1 IN INTESTINAL REHABILITATION

► **2021—Wenjing Zong, MD**

Children's Hospital of Philadelphia, Philadelphia, PA

CLINICAL OUTCOME AND MICROBIOME BIOMARKERS PREDICTING SUCCESS WITH FIBER FOOD INTRODUCTION IN SHORT BOWEL SYNDROME

Supported by an educational grant from Nestlé.



Linda Wang, MD



Wenjing Zong, MD

NASPGHAN Foundation Mid-Level Career Development Award

The mid-level career development award is for NASPGHAN members pursuing research in pediatric gastroenterology, hepatology and nutrition and are at a mid-level in their career. The grant funds the advancement of research careers for applicants with significant promise in their mid-years as faculty.

► **2020—Jaime Belkind-Gerson, MD, MSc**

Children's Hospital of Colorado, Aurora, CO

SCHWANN CELL-DERIVED POSTNATAL ENTERIC NEUROGENESIS

► **2021—Shikha Sundaram, MD**

Children's Hospital of Colorado, Aurora, CO

THE ROLE OF EXTRACELLULAR VESICLES IN CHRONIC INTERMITTENT HYPOXIA MEDIATED MACROPHAGE ACTIVATION IN PEDIATRIC NON-ALCOHOLIC FATTY LIVER DISEASE

Supported in part by an educational grant from Albireo Pharma, Inc.



Jaime Belkind-Gerson
MD, MSc



Shikha Sundaram, MD

NASPGHAN Foundation George Ferry Young Investigator Development Award

This grant is available to junior faculty to support research activities that have the potential for evolution to an independent research career in pediatric gastroenterology, hepatology or nutrition. The award supports a meritorious research project in the clinical or basic sciences to study the diseases of the gastrointestinal tract, liver or pancreas and nutritional disorders in children.

► **2020—Matthew Egberg, MD, MPH, MMSc**

University of North Carolina at Chapel Hill, Chapel Hill, NC

OPTIMIZING POSTOPERATIVE OUTCOMES IN CHILDREN WITH CROHN'S DISEASE USING PRECISION MEDICINE

► **2021—Rachel Chevalier, MD**

Children's Mercy Hospital, Kansas City, MO

MUCOSAL CYP3A4 AND P-GP MEDIATED DRUG METABOLISM OF BUDESONIDE IN PATIENTS WITH EOSINOPHILIC ESOPHAGITIS (EoE)

NASPGHAN Foundation/AstraZeneca Research Award for Disorders of the Upper Gastrointestinal Tract

This grant provides funding for studies focused on the epidemiology, pathogenesis, natural history, genetics, diagnosis and management of peptic disorders and other diseases of the upper gastrointestinal tract in children.

► **2020—Bridget Hron, MD**

Boston Children's Hospital, Boston, MA

EFFECT OF BLENDERIZED ENTERAL TUBE FEES ON PEDIATRIC UPPER GASTROINTESTINAL TRACT PHYSIOLOGY

Supported by an educational grant from AstraZeneca.

NASPGHAN Foundation/Takeda Pharmaceuticals America, Inc. Research Innovation Award

This grant funds innovative, high-impact research in pediatric gastroenterology, hepatology and nutrition. The intent of this research award is to stimulate scientific inquiry in an area that is exceptionally innovative and has the potential to impact the field in a highly novel manner.

► **2021—Kara Gross Margolis, MD**

Columbia University, New York, NY

A STATE-OF-THE-ART GUT EPITHELIAL-TARGETED SERT ANTAGONIST TO TREAT MOOD DISORDERS

Supported by an educational grant from Takeda Pharmaceuticals America, Inc.

NASPGHAN Foundation Innovations in Clinical Care Grant

The aim of this grant is to encourage and support the development of innovative approaches to optimize the quality of care and health care delivery to children with digestive diseases by the clinically focused pediatric gastroenterologist.

► **2020—Alice Huang, MD, MBA**

Lucile Packard Children's Hospital, Palo Alto, CA
Children's Hospital of Philadelphia, Philadelphia, PA

THE UTILITY OF NOVEL VIRTUAL REALITY-BASED DIAPHRAGMATIC BREATHING INTERVENTION TO TREAT PEDIATRIC FUNCTIONAL CONSTIPATION AND PELVIC FLOOR DYSFUNCTION

► **2020—Vikram Raghu, MD**

Children's Hospital of Pittsburgh, Pittsburgh, PA

IMPROVING IRON SUPPLEMENTATION IN CHILDREN WITH INTESTINAL FAILURE



Bridget Hron, MD



Kara Gross Margolis, MD



Alice Huang, MD, MBA



Vikram Raghu, MD

► **2021—Prashanthi Kandavel, MD**

Children's Hospital Los Angeles, Los Angeles, CA

IMPLEMENTATION OF RAPID INFLIXIMAB INFUSIONS AT A TERTIARY CARE CENTER

NASPGHAN Foundation/QOL Medical Research Award for the Study of Disorders Associated with Carbohydrate Maldigestion/Malabsorption in Children

This award provides funding for studies focused on disorders of carbohydrate (CHO) maldigestion/malabsorption in children, either primary or secondary. Relevant conditions include, but are not limited to, lactose intolerance, congenital sucrose-isomaltase deficiency, congenital enteropathies that impact intestinal epithelial cell function, or inflammatory conditions affecting CHO absorption.

► **2021—Mamata Sivagnanam, MD**

Rady Children's Hospital, San Diego, CA

USE OF HUMAN ENTEROIDS TO UNDERSTAND CARBOHYDRATE MALABSORPTION IN CONGENITAL TUFTING ENTEROPATHY

Supported by an educational grant from QOL Medical, LLC.

NASPGHAN Foundation/CPNP Nutrition Research Grant

This grant is available to pediatric dietitians to support research activities that have the potential to advance the nutrition care of patients and families of children with nutritional disorders.

► **2020—Kristen Criscitelli, MS, RD, CDN**

Children's Hospital at Montefiore, Bronx, NY

FACTORS ASSOCIATED WITH SUCCESSFUL WEIGHT LOSS AMONG CHILDREN WITH NONALCOHOLIC FATTY LIVER DISEASE: A FIRST STEP TOWARDS DESIGNING EFFICACIOUS LIFESTYLE INTERVENTION

► **2020—Natalie Stoner, RD, CSP, LDN**

Children's Hospital of Philadelphia, Philadelphia, PA

EVALUATING USE OF ENTERAL NUTRITIONAL THERAPY TO IMPROVE DISEASE OUTCOMES IN CHILDREN WITH VEO-IBD

(NASPGHAN Foundation/CPNP Nutrition Research Grant continues on the following page)



Prashanthi Kandavel, MD



Mamata Sivagnanam, MD



Kristen Criscitelli, MS, RD, CDN



Natalie Stoner, RD, CSP, LDN

► **2020—Brock Williams, MSc, RD**

University of British Columbia, Vancouver, BC

SUBLINGUAL IMMUNOTHERAPY FOR THE TREATMENT OF PEDIATRIC FOOD ALLERGY: ARE WHOLE FOOD COMPOUNDS AS EFFECTIVE AS INDUSTRIAL GLYCERINATED EXTRACTS?

► **2021—Matthew Edwards, BS**

Children's Hospital of Wisconsin, Milwaukee, WI

COMPARING PREDICTIVE ACCURACY OF KNEE HEIGHT EQUATIONS IN PEDIATRIC PATIENTS

Supported by an educational grant from QOL Medical, LLC.

**NASPGHAN Foundation/APGNN Susan Moyer
Nursing Research Grant**

This grant is available to pediatric gastroenterology, nutrition and hepatology nurses to support research activities that have the potential to advance nursing care of patients and families of children with gastrointestinal, hepatobiliary, pancreatic or nutritional disorders. The grant is awarded in support of a meritorious research projects to study the nursing care of families and children with pediatric gastrointestinal, hepatobiliary, pancreatic or nutritional disorders.

► **2020—Goldie Markowitz, MSN, CNS, CRNP, APN-PC**

Children's Hospital of Philadelphia, Philadelphia, PA

CHILDREN WITH AUTISM SPECTRUM DISORDER AND OBESITY: A FEASIBILITY AND ACCEPTABILITY PILOT FOR A PARENT EDUCATION CLINIC

► **2021—Melanie Oates, RN-BSN**

Nationwide Children's Hospital, Columbus, OH

IMPROVING IBD CARE THROUGH PARENT MENTORING



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**NASPGHAN Foundation/Abbott
Advanced Fellowship Training in Pediatric Nutrition**

The NASPGHAN Foundation/Abbott Advanced Fellowship in Nutrition supports one year of advanced training in pediatric nutrition. The primary objective of the fellowship is to catalyze and increase the number of highly-trained, expert nutrition clinicians, educators and scientists among the membership of NASPGHAN, as a means to improve service to our patients and the public.

► **2020—Erin Alexander, DO**

Children's Hospital of Philadelphia, Philadelphia, PA

SKELETAL MUSCLE DEFICITS IN UNDER NUTRITION AND ASSOCIATION WITH DISEASE CHARACTERISTICS IN INFLAMMATORY BOWEL DISEASE (IBD)

► **2021—Jessica Deas, MD**

Children's Hospital Los Angeles, Los Angeles, CA

CHARACTERIZATION OF THE INTESTINAL MICROBIOME, CHRONIC INFLAMMATION AND CLINICAL OUTCOMES IN CHILDREN WITH SHORT BOWEL SYNDROME

Supported by an educational grant from Abbott.

**NASPGHAN Foundation Advanced Fellowship
Training in Pediatric Endoscopy**

The NASPGHAN Foundation Advanced Fellowship Training in Pediatric Endoscopy supports one year of advanced endoscopy training in the pediatric arena. The objective of the fellowship is to address the growing need for pediatric gastroenterologists who are skilled in advanced endoscopic procedures and provides a pathway for training of pediatric experts.

► **2020—Wenly Ruan, MD**

Baylor College of Medicine, Houston, TX

DIAGNOSTIC AND THERAPEUTIC BENEFITS OF PEDIATRIC ENTEROSCOPY

► **2021—Chathruckan Rajendra, MD**

University of California, San Francisco, San Francisco, CA

DEVELOPING A PEDIATRIC ADVANCED ENDOSCOPY PROGRAM AT A TERTIARY CHILDREN'S HOSPITAL SYSTEM

Supported by an educational grant from Olympus America, Inc.



Erin Alexander, DO



Jessica Deas, MD



Wenly Ruan, MD



Chathruckan Rajendra, MD

SPECIAL RECOGNITION AWARDS

The NASPGHAN Foundation is fortunate to be the beneficiary of donations to acknowledge, honor, and commemorate special individuals' lives and work.

Gerard B. Odell Award

Dr. Odell, a professor of pediatrics at the Johns Hopkins School of Medicine, was a pediatric liver specialist. Later in his career, he established the pediatric gastroenterology division at the University of Wisconsin. He was a passionate scientist and his research on bilirubin metabolism and hepatobiliary disorders was a point of immense career pride. The award was developed to promote research and excellence in hepatology.

► **2020—Amanda Cantor, MD**

Columbia University Medical Center, New York, NY

ACUTE HEPATITIS IS A PROMINENT PRESENTATION OF THE MULTISYSTEM INFLAMMATORY SYNDROME IN CHILDREN: A SINGLE-CENTER REPORT

► **2021—Ajay Kumar Jain, MD**

Saint Louis University, Saint Louis, MO

FERROPTOSIS INHIBITORS MITIGATE ISCHEMIA-REPERFUSION INJURY IN MARGINAL LIVERS IN A NOVEL "PROTECT" MODEL

Amin Tjota Award for the Outstanding Abstract in Pancreatic Research

This award honors the memory of the late Dr. Amin Tjota and has been developed to promote the pursuit of research related to pancreatic disorders in children.

► **2020—Peter Farrell, MD**

Cincinnati Children's Hospital Medical Center, Cincinnati, OH

USE OF NOVEL CYTOPLEX ASSAY TO DETERMINE PREDICTORS OF SEVERITY IN PEDIATRIC ACUTE PANCREATITIS

► **2021—Yuhua Zheng, MD**

Children's Hospital of Los Angeles, Los Angeles, CA

PATIENT-SPECIFIC INDUCED PLURIPOTENT STEM CELL (PSC) WITH NEUROG3 MUTATION REVEAL POTENTIAL NOVEL MECHANISM FOR PANCREATIC INSUFFICIENCY



Amanda Cantor, MD



Ajay Kumar Jain, MD



Peter Farrell, MD



Yuhua Zheng, MD

Richard J. Grand and John B. Watkins Research Prize for Excellence in Pediatric Gastroenterology, Hepatology and Nutrition

Drs. Grand and Watkins were pioneers in the field of pediatric gastroenterology and helped define our field as we know it today. Drs. Grand and Watkins worked together to build one of the earliest "full service" GI Divisions in the country. The award was developed to promote research and excellence in pediatric gastroenterology, hepatology and nutrition.

► **2020—Jean Molleston, MD**

Riley Hospital for Children, Indianapolis, IN

CHARACTERISTICS AND CLINICAL LIVER DISEASE IN CHILDREN WITH SONOGRAPHIC NODULAR LIVER (SONIC) IN CYSTIC FIBROSIS

► **2021—Hengqi (Betty) Zheng, MD**

University of Washington, Seattle Children's Research Institute, Seattle Children's Hospital, Seattle, WA

A TREATMENT-NAÏVE SINGLE CELL ATLAS OF PEDIATRIC CROHN'S DISEASE PREDICTS DISEASE TRAJECTORY

The William Balistreri Lectureship

The William Balistreri Lectureship supports a lecture featuring a research and clinical expert who presents cutting edge topics in the fields of gastroenterology, hepatology, nutrition, and pancreatic diseases. The William Balistreri lecture celebrates Dr. Balistreri's career-long commitment to excellence in clinical care, education, research and advocacy. The lecture is given during the Plenary Session at the Annual Meeting.

► **2020—O. N. Ray Bignall II, MD, FAAP**

Nationwide Children's Hospital

DIVERSITY AND INCLUSION IN HEALTHCARE

► **2021—Gail Hecht, MD, MS, AGAF**

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Teri Li Award in Education

The Teri Li Award recognizes novel or extensive education efforts by junior faculty in NASPGHAN. The award is named in honor of Dr. B Li's spouse, Teri, who was passionately dedicated to quality education all of her life.

► **2020—Daniel Mallon, MD**

Cincinnati Children's Hospital Medical Center, Cincinnati, OH

► **2021—Sarah Lusman, MD**

Morgan Stanley Children's Hospital of New York, New York, NY

► **2021—Jacob Robson, MD**

University of Utah, Salt Lake City, UT



Sarah Lusman, MD



Daniel Mallon, MD



Jacob Robson, MD



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The Cyclic Vomiting Syndrome Association (CVSA) Young Investigator Prize in Functional GI Disorders in honor of B Li

This award is given to a young investigator submitting an outstanding scientific abstract focusing on basic science, clinical investigation or outcomes research in the following conditions: Cyclic vomiting syndrome, aerophagia, rumination syndrome, functional dyspepsia, irritable bowel syndrome, or functional abdominal pain.

► **2020—Neha Santucci, MD**

Cincinnati Children's Hospital Medical Center, Cincinnati, OH

COMPREHENSIVE EVALUATION OF THE EFFECTS OF PERCUTANEOUS ELECTRIC NERVE FIELD STIMULATION ON OBJECTIVE AND SUBJECTIVE SLEEP MEASURES, GASTRIC MECHANOSENSITIVITY AND PSYCHOLOGICAL MEASURES IN ADOLESCENTS WITH FUNCTIONAL ABDOMINAL PAIN DISORDERS

► **2021—Katja Kovacic, MD**

Medical College of Wisconsin/Children, Milwaukee, WI

ABNORMAL AUTONOMIC REGULATION IN CHILDREN WITH CYCLIC VOMITING SYNDROME



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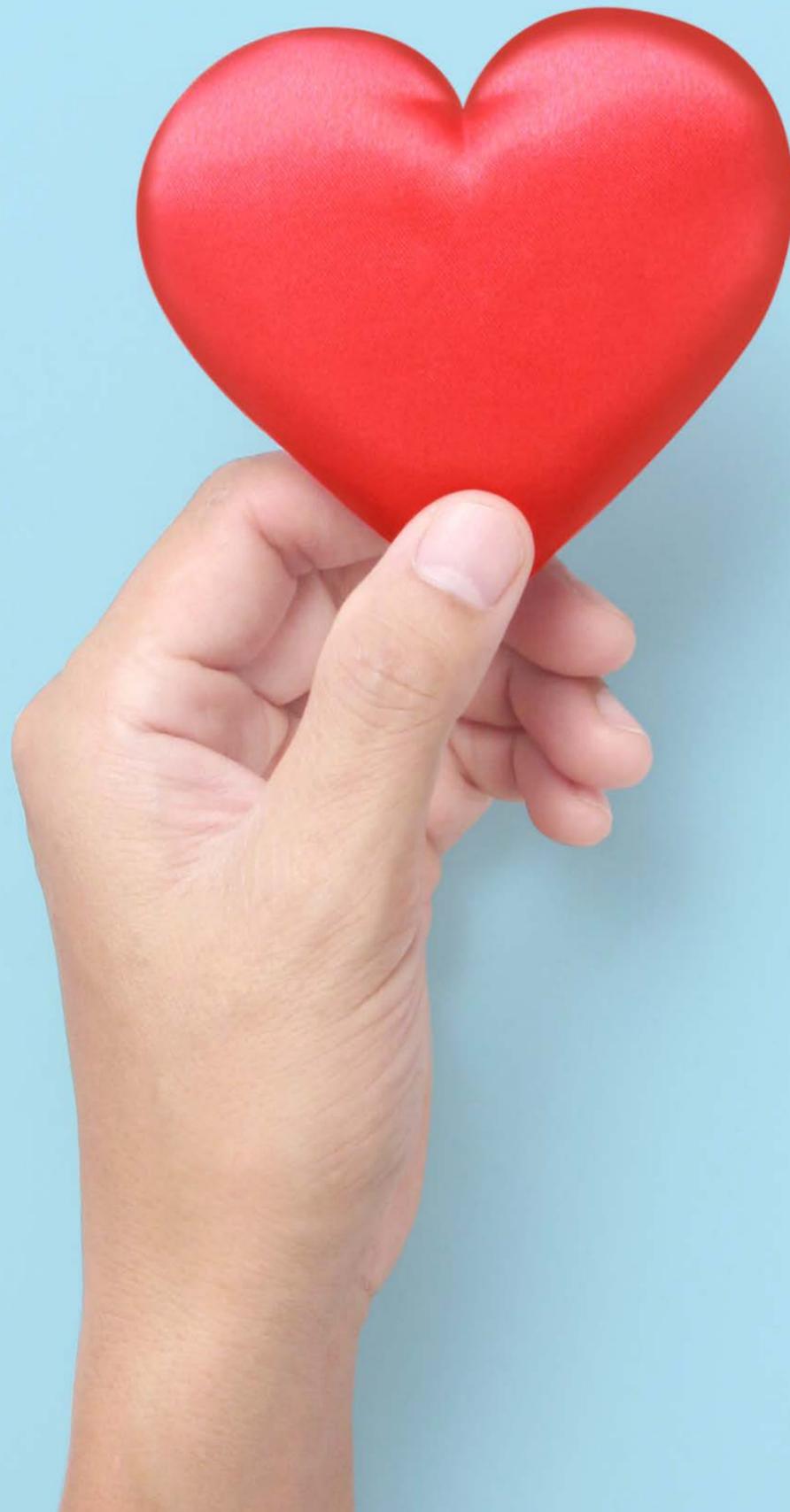
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- ◆ **Your donation through the NASPGHAN Foundation will support the professional and patient education and research mission of NASPGHAN.**

Your support will enable the Foundation to fund research which will provide insights into diagnosis and treatment of pediatric digestive disorders. Public awareness campaigns provide education and information for children and adolescents affected by digestive and nutritional disorders.

- ▶ To donate by mail, please make the check payable to **NASPGHAN Foundation** and mail it to:

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- ▶ Donate on Line 
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ENDOWMENT OPPORTUNITIES

- ◆ **Richard J. Grand and John B. Watkins Research Prize for Excellence in Pediatric Gastroenterology, Hepatology and Nutrition**

Drs. Grand and Watkins worked together to build one of the earliest “full service” GI Divisions in the country. They have been extensively involved in the formative days of NASPGHAN, are both past Presidents of the Society, and both are recipients of the Shwachman Award. It is in the spirit of the work they did together, that this Legacy Award will bear both their names.

So, we ask your support for this very special initiative. This award will recognize outstanding achievement in our field to be bestowed at the annual NASPGHAN meeting. We ask your help in commemorating Richard’s and John’s devotion to our society by supporting this award. 

- ◆ **The William F. Balistreri, MD Prize for Excellence in Pediatric Gastroenterology, Hepatology and Nutrition**

In honor of his extraordinary devotion to pediatric gastroenterology, hepatology, nutrition, and to NASPGHAN, we are pleased to introduce the William F. Balistreri, MD Prize for Excellence in Pediatric Gastroenterology, Hepatology and Nutrition. This award will endows an outstanding speaker at our Annual Meeting. 

◆ Teri Li Award in Education

This award recognizes novel and/or extensive educational efforts in pediatric GI for a junior faculty (within 10 years of fellowship). As a Montessori teacher, Teri's lifelong passion was education. The clinician-educator pathway is currently the most commonly chosen career track amongst GI fellows and junior faculty. There are currently no recognition awards to support novel or extensive efforts in pediatric GI education. By providing recognition, such an award could help further a young faculty member's a career as a clinician-educator. ➔

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THE NASPGHAN LEGACY SOCIETY

◆ **THE NASPGHAN LEGACY SOCIETY** is open to all individuals who have named NASPGHAN in their long-term plans or created an endowment for our benefit. As a member of the Society, you will be recognized at the Annual Meeting now and in the future for your contribution to the stability and growth of NASPGHAN. You will receive yearly invitations to the VIP Donor Reception at the national meeting, and be identified by a special designation on your meeting badge. Whether your contribution is given with a directed purpose (determined by the donor), or provided to create an endowment intended for new initiatives and activities, it will receive yearly acknowledgement. Thus, by becoming a member of the Society, you will forever be recognized as a champion of your society and profession. ➔

◆ How it Works

- ▶ The NASPGHAN Foundation is the fund raising partner of NASPGHAN, so your gift should be directed to the Foundation.
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- ▶ Designate your gift for a particular purpose that is important to you, assign it to the legacy endowment, or allow us to use the gift where the need is greatest at the time it matures. In any case, you immediately become a member of the NASPGHAN Legacy Society.
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