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CHAIR’S SUMMARY

Juan C. Salazar, MD, MPH, FAAP
Professor and Chair, Department of Pediatrics
University of Connecticut School of Medicine
Executive Vice President of Academic Affairs
Physician-in-Chief
Connecticut Children’s Medical Center
Dear Colleagues & Friends,

The year 2018 was marked by great achievement, growth, and excitement for the Department of Pediatrics and for Connecticut Children’s Medical Center. It is once again my pleasure to present our combined annual report for the Departments of Pediatrics and Pediatric Surgical Subspecialties, and to share just a few of the many highlights of our last year together. As we prepared this year’s report, I took note of the steadily increasing number of faculty awards, complex and innovative research, and the recognition we earned on local, national, and international stages. There is no doubt of our many evolving, multidisciplinary contributions to academic medicine.

Connecticut Children’s once again received U.S. News & World Report recognition as one of the country’s best children’s hospitals for 2018-2019, with rankings for our divisions of Neonatology, Cardiology and Heart Surgery, Diabetes and Endocrinology, and Urology among the best in the nation. For the second consecutive year, Connecticut Children’s also received the Women’s Choice and Most Wired awards.

Our presence on the national stage was noted by such honors as the Richard Rivas Memorial Teaching Award to Dr. James Moore, and the American Health Council’s Leaders in Medicine Award to Dr. Cynthia Silva, as well as multiple posters and presentations. Dr. Glenn Flores drafted 2018 legislation that was signed into law by Congress and the President of the United States as part of CHIP reauthorization. Our faculty and staff continued to be expert sources for the media on a wide variety of pediatric health issues throughout the year.

The work done by all of our researchers in 2018 was truly remarkable. We celebrated alongside Dr. David Weinstein as he conducted the world’s first gene therapy clinical trial for Glycogen Storage Disease (GSD), and we noted a 27 percent rise in our published peer-reviewed manuscripts, from 143 in 2017, to 182 in 2018. Dr. Ching Lau’s article in Nature and Dr. Emily Germain-Lee’s article in Nature Reviews Endocrinology were among our 2018 publications.

Our continuum of quality medical education continued to evolve. Our pediatric rotations for third and fourth year medical students remain among the most highly rated at the UConn School of Medicine. Under Dr. Melissa Held’s leadership, our medical students successfully embarked upon the clinical years of their new MDelta curriculum, which focuses more on collaborative group learning than didactic sessions. Our residency and fellowship programs continue to attract and graduate highly accomplished residents and fellows. Our academic achievements included over 800 academic presentations, 278 publications including peer-reviewed PubMed publications, book chapters, and educational resources; 831 committees; 365 new grants and program applications; participation in at least 343 educational development activities; 190 precepting/consulting activities, and 35 studies/assessments. We expanded our Maintenance of Certification Portfolio status to now include accreditation by the American Board of Medical Subspecialties as well as the American Board of Pediatrics. A testament to our numerous, high quality Continuing Medical Education (CME) activities was the re-accreditation of our Office of CME through 2022 by the Connecticut State Medical Society.

Of special note, our team successfully completed the Department of Pediatrics nine-year review. In preparation for the November 30th site visit, the department conducted a 10-month self-study led by Dr. Francis DiMario and Esperanza Lesmes. In my five years as department chair, not a day has gone by that I haven’t been in awe of the tremendous work and dedication of our faculty and staff. Nothing, however, prepared me for the overwhelming pride I felt when reviewing the collection of achievements, changes, and hard work that have taken place since the 2009 self-study.

Our many successes would not be possible without the generous and genuine support from Bruce Liang, Dean of the UConn School of Medicine, and the academic leadership at the School of Medicine and UConn Storrs, as well as Connecticut Children’s Chief Executive Officer Jim Shmerling, Chief Operating Officer Gil Peri, CCSG Practice President Glenn Focht, MD, my colleagues on the Executive Management Team, and the members of the Board of Directors.

In the pages that follow, you will find exciting and inspiring examples of the excellence, achievement and compassionate care that defines the Department of Pediatrics and Connecticut Children’s. I am proud to represent our outstanding faculty and staff, and to stand alongside them all in support of our mission and vision to serve the patients and families of Connecticut.

Sincerely,

Juan C. Salazar, MD, MPH, FAAP
Professor and Chair, Department of Pediatrics
University of Connecticut School of Medicine
Connecticut Children’s Medical Center
Dear Colleagues & Friends,

It is with great pleasure that we present the ninth annual report from the Department of Pediatric Surgical Subspecialties of Connecticut Children’s Medical Center and the fifth combined report with the Department of Pediatrics. This report continues to reflect the solid alignment between Surgery and Pediatrics and the continued multidisciplinary growth of combined surgical and pediatric programs at Connecticut Children’s.

In 2018, we were pleased to earn national recognition for several of our medical and surgical divisions. U.S. News & World Report ranked Connecticut Children’s divisions of Neonatology, Cardiology and Heart Surgery, Diabetes and Endocrinology, and Urology as among the best in the country. In addition, Connecticut Children’s again earned the designation of a Best Children’s Hospital from the Women’s Choice Award®.

Over the last year we have seen several key recruitments and significant growth in surgical volume. Dr. Dennis Mello joined us and has expertly treated numerous complex congenital heart conditions over the last year. Dr. Lee Pace, our sports medicine surgeon, led the nation in arthroscopic trochleoplasty, a non-invasive procedure ideal for the treatment of trochlear dysplasia, a debilitating congenital condition that causes the kneecap to pop out unpredictably. We welcomed a new Division of Ophthalmology and recruited Dr. Paul J. Rychwalski from the Concord Eye Center in New Hampshire to serve as division chief.

Throughout 2018, the surgical services continued to experience growth, performing procedures on over 11,070 children with over 2,511 cases performed at our ambulatory surgery center in Farmington, CT. Some of this growth has been supported by the opening of our third operating room in March 2018. We continue to aggressively pursue our vision to bring the very best surgical care to the children of the region while simultaneously pursuing our two other core missions: research and education.

Some specific highlights from the past year:
Innovation through research is integral to the mission of the department. We continue to focus efforts on children with solid tumors, premature lung disease, esophageal disease, injury prevention, and sports-related injuries. Several federal grants and invention patents were submitted over the past two years focusing on diagnosis and treatment of these diseases. In the coming year our new pediatric urologist, Dr. Courtney Rowe, will be focusing efforts on tissue-engineering a urethra—a largely unexplored field that has the potential to have significant impact on children. Finally, we are continuing to develop an Innovation Center to harness new ideas generated by the faculty.

Connecticut Children’s Medical Center remains the exclusive site for pediatric surgical subspecialty training for the University of Connecticut School of Medicine surgical residency programs. Annually, dozens of residents from the University of Connecticut and other institutions receive their required pediatric surgical experience at Connecticut Children’s. The Pediatric General Surgery, Pediatric Orthopaedics, and Pediatric Anesthesia programs continue to train the future leaders in surgical subspecialties and have graduated several successful fellows in the last year.

As we continue to champion innovation and education, we remain focused on providing the highest quality, state-of-the-art care for children of the region.

Sincerely,

Christine Finck, MD, FACS
Associate Professor of Pediatrics and Surgery
Associate Vice Chair of Surgery
University of Connecticut School of Medicine
Peter Deckers Endowed Chair of Pediatric Surgery
Surgeon-in-Chief, Executive Vice President
Connecticut Children’s Medical Center
Christine Finck, MD, FACS
Associate Professor of Pediatrics and Surgery
Associate Vice Chair of Surgery
University of Connecticut School of Medicine
Peter Deckers Endowed Chair of Pediatric Surgery
Surgeon-in-Chief, Executive Vice President
Connecticut Children’s Medical Center
THE YEAR’S HIGHLIGHTS
We are honored to present highlights from the fifth combined University of Connecticut and Connecticut Children’s Medical Center Departments of Pediatrics and Pediatric Surgical Subspecialties Annual Academic Report 2018. The report reflects the alliance between Surgery and Pediatrics and the continued multi-disciplinary growth of combined surgical and pediatric programs at Connecticut Children’s Medical Center.

To view the complete 2018 Annual Academic Report, please visit: https://www.connecticutchildrens.org/newsroom/publications/
The U.S. Food and Drug Administration approved the world's first gene therapy clinical trial for Glycogen Storage Disease (GSD). This ground-breaking clinical trial focusing on GSD Type Ia was hosted by the GSD Program at Connecticut Children’s and UConn Health under the direction of pediatric endocrinologist and scientist David Weinstein, MD, MMSc. Patients with this condition travel to Connecticut Children's from 49 states and 49 countries to receive care.

U.S. News & World Report ranked the Neonatology program, under the leadership of James E. Moore, MD, PhD, the highest in the state and among the Top 30 programs nationally out of more than 1,500 NICUs (neonatal intensive care units) across the country.

On July 1, Connecticut Children's, through our Care Alliance with Western Connecticut Health Network, officially launched Neonatology services in Danbury and Norwalk Hospital NICUs. This launch presents an opportunity to make Connecticut Children’s nationally ranked Neonatology program available to more babies throughout the state.

Lee Pace, MD, an orthopaedic surgeon with Connecticut Children’s Elite Sports Medicine, performed the nation’s first arthroscopic trochleoplasty at our surgery center in Farmington. The minimally invasive knee procedure is designed to correct trochlear dysplasia — a congenital malformation of the knee joint affecting the kneecap. Connecticut Children’s is at the forefront in the treatment of this condition, which can limit a child’s mobility and ability to take part in sports, and potentially lead to depression.

Throughout 2018, Brendan Campbell, MD, MPH, FACS, medical director of the Pediatric Trauma Program, chief Surgical Quality and Safety Officer, and Donald W. Hight Endowed Chair for surgery, served on the American College of Surgeons Committee on Trauma (ACS COT) Firearm Strategy Team (FAST) Workgroup, a geographically diverse team of 18 American surgeons who are firearm owners. In a major article published by the Journal of the American College of Surgeons, the group issued 13 recommendations for the prevention of firearms injuries. The article drew significant attention from national media sources, and Dr. Campbell was interviewed on CNN and by Slate Media. He continues to be involved as a leading voice regionally and nationally in advocating for a new approach to the prevention of firearms injuries.

Connecticut Children’s welcomed long-term community colleagues, Children’s Eye Care, into Connecticut Children's Specialty Group, and created a new Division of Ophthalmology. The group’s dedicated physicians, optometrists, and staff are now integrated into the Connecticut Children's health system in the service of our patients.
Connecticut Children’s acquired HeadZone, a comprehensive pediatric concussion care practice in Shelton, CT. HeadZone, now a Connecticut Children’s Medical Center Concussion Clinic, specializes in the care of pediatric patients ages 5 to 22 years, who have sustained sports-related head injuries. Patients and families of HeadZone now receive sports-related concussion care from David Wang, MD, and Megan Bromley, PA-C, both from our Division of Sports Medicine.

The Adult Congenital Heart Association awarded the Connecticut Adult Congenital Heart (CTACH) service a status of an ACHA ACHD Accredited Comprehensive Care Center. This accreditation is valid for a five-year period. The program is the first and only in Connecticut and the 23rd nationally to earn this accreditation.

The Pulmonology Division’s Cystic Fibrosis Newborn Screening Program was ranked No. 1 nationally by the Cystic Fibrosis Foundation for the lowest median age for time to diagnosis of CF with infants who have a positive newborn screening.

The Connecticut Children’s Extracorporeal Membrane Oxygenation (ECMO) program, led by medical director Heather Schlott, MD, was recognized for the second time with the Extracorporeal Life Support Organization’s (ELSO) Silver Award for centers on a Pathway to Excellence in Life Support. This is the highest achievement possible at Connecticut Children’s current ECMO patient volume.

The Connecticut Children’s Epilepsy Center, directed by Jennifer Madan Cohen, MD, received accreditation by the National Association of Epilepsy Centers as a Level 3 Epilepsy Center.

The Center for Motion Analysis, directed by orthopaedic surgeon Kristan Pierz, MD, and Sylvia Òunpuu, MSc, achieved full accreditation by the Commission for Motion Laboratory Accreditation.

Cynthia Silva, MD, FAAP, division head of Nephrology, and David Sink, MD, of Neonatology performed Connecticut Children’s first inpatient telemedicine consult. The patient, a baby receiving care in our NICU at UConn Health, was born without one kidney and required a nephrology consult before being discharged home.
AWARDS & HONORS

Anton Alerte, MD, director of Clinical Medicine Courses at the University of Connecticut School of Medicine, received the 2018 COMSEP Award of Excellence for his research poster titled “The Decline in Community Preceptors: An Exploration of Pediatricians Who No Longer Teach Medical Students.”

The Faculty Award for Excellence in Teaching at an Affiliated Institution (St. Francis Hospital, Burgdorf/Bank of America Clinic, and UConn Health) was presented to Anton Alerte, MD, and Naveed Hussain, MD.

Gyula Acsadi, MD, division head of Pediatric Neurology, was recipient of the Physician of the Year Award from the Connecticut Children’s Medical Staff Nominating Committee.

Connecticut Children’s Medical Staff Nominating Committee named Michael Bourque, MD, of Pediatric Surgery, 2018 Physician of the Year, and Felicia Wilion, MD, 2018 Community Physician of the Year.

Brendan Campbell, MD, MPH, FACS, was appointed vice chair of the Injury Prevention and Control Committee for the American College of Surgeons Committee on Trauma.

Christopher Carroll, MD, of the Critical Care Division, was awarded the Presidential Citation from the Society of Critical Care Medicine and the Distinguished Chest Educator Award from the journal Chest.

Orthopaedic surgeon Sonia Chaudhry, MD, was awarded the prestigious ASSH/AFSH 2018-2019 International Hand Surgery Fellowship to Ganga Hospital, Coimbatore, India.

Francis DiMario, MD, member of the Division of Pediatric Neurology, was selected as a member of the Child Neurology Society (CNS) Archives Committee and Planning Committee for the CNS 50th Anniversary.

Connecticut Children’s Surgeon-in-Chief and Peter Deckers Endowed Chair of Pediatric Surgery Christine Finck, MD, FACS, was honored with a Women of Innovation award by the Connecticut Technology Council (CTC). She was recognized and awarded for her Research Innovation and Leadership. The Women of Innovation program seeks to celebrate and create a growing network of women in the trenches of STEM.
Glenn Flores, MD, FAAP, division head of Research, has been appointed associate editor of the Journal of Immigrant and Minority Health.

Patricia Garcia, MD, was honored with the Douglas H. MacGilpin Community Physician Award for recognition as an Outstanding Role Model.

AnnMarie Golioto, MD, was selected as medical director at Connecticut Children’s NICU East (Hartford), and regional clinical director of the Hartford Healthcare Newborn Network. She also will play a pivotal role in the construction of our new, Level IV NICU in Hartford.

Ahmet (Semih) Gork, MD, was appointed to serve as medical director of NICUs at the Hospital of Central Connecticut in New Britain and MidState Medical Center in Meriden.

William Graf, MD, was appointed chair of the Child Neurology Society Ethics Committee.

Melissa Held, MD, was appointed associate pediatric residency program director for remediation.

Donald W. Hight, MD, was awarded the Leon Chameides Lifetime Achievement Award for Outstanding Leadership.

The Faculty Award for Excellence in Teaching was presented to Kathy Kalkbrenner, MD, and Patricia Garcia, MD.

Sherene Mason, MD, received the 2018 Outstanding Young Alumni Award from the University of Connecticut’s H. Fred Simons African American Cultural Center.

James E. Moore, MD, PhD, division head of Neonatology, was awarded the 2018 Richard Rivas Memorial Teaching Award at the Specialty Review Conference in Neonatology in Orlando, FL. The award recognizes leaders in the field of neonatology and their dedication to teaching at the national level.

Nicole Murray, MD, director of the Center for Airway, Voice, and Swallowing, taught the pediatric component of the first United States session of the international course, “The Altered Airway,” which is sponsored by the Global Tracheostomy Collaborative.

Christine Ohannessian, PhD, was named associate editor for the Journal of Emerging Adulthood.

Juan C. Salazar, MD, MPH, FAAP, Physician-in-Chief and Executive Vice President of Academic Affairs at Connecticut Children’s, and Chair of the Department of Pediatrics at University of Connecticut Health Center, was appointed to the federal Tick-Borne Disease Working Group of the Department of Health and Human Services (HHS). Dr. Salazar and his colleagues at the UConn Health are actively studying the immune response of children and adults who become infected with Lyme disease.

Anand Sekaran, MD, division head of Hospital Medicine, was selected as one of 12 members nationally on the AAP PHM PREP Editorial Board, to create the first practice exam for board certification in Pediatric Hospital Medicine.

Cynthia Silva, division head of Nephrology and medical director of the Center for Kidney and Bladder Disorders, received the American Health Council’s Leaders in Medicine award for exhibiting exemplary conduct and expertise in her field.

David Sink, MD, of the Neonatology Division, was appointed regional clinical director for NICU West, ECHN and WCHN. He also will serve as physician quality and safety officer for the entire Neonatal service line, and will continue as medical director for Connecticut Children’s NICU West (Farmington).

Christine Skurkis, MD, was appointed to the role of vice chair of the Curriculum Learning Community by the Association of Pediatric Program Directors Board (APPD).

Min Tang-Schomer, PhD, was selected winner of the Life Sciences – Article of the Year for her March 10, 2017 publication, “3D Bioengineered Brains – A New Approach to Personalized Cancer Therapy.”

David Weinstein, MD, was reappointed for another three-year term of the National Institute of Child Health and Human Development (NICHD) Pediatrics (CHHD-A) grant review committee.

Edwin Zalneraitis, MD, director of the Pediatric Residency program, was recipient of the Milton Markowitz Award for Outstanding Contributions to House Staff Education and Career Development.
FACULTY PROMOTIONS

Kristan Pierz, MD, to Associate Professor of Orthopaedic Surgery; Katherine Kavanagh, MD, to Associate Professor of Pediatric Surgery; Thysde Dumont Mathieu, MD, Alex Golden, MD, Wael Sayej, MD, Adam Silverman, MD, Christine Skurkis, MD, and Michael Solits, MD, to Associate Professor of Pediatrics; promotion of Karan Emerick, MD, to Professor of Pediatrics; appointment of Beth Nath, MD, to Associate Professor of Pediatrics, and Glenn Flores, MD to Professor of Pediatrics. Junior Promotions: Susan DiVietro, PhD and Taryn J. Hamre, DNP, APRN to Assistant Professor of Pediatrics.

FACULTY APPOINTMENTS

New faculty members: Dennis Mello, MD, Cardio/Thoracic Surgery; Paul Rychwalski, MD, Ophthalmology; Joseph Vitterito, MD, and Arvin Bundhoo, MD, Neonatology, St. Vincent’s Hospital; Alexandra Channing, MD, Cardiology; Susan Dellig, MD, Developmental Pediatrics; Robyn Matloff, MD, Nephrology; Donald Sampson, MD, and Krishanti Satchi, MD, IMT/WCHN-Danbury; Amanda Begley, MD, Alicia Briggs, MD, Lauren Bader, MD, and Juan Vasquez, MD, IMT/WCHN-Norwalk; Kelly Hawley, PhD, Infectious Diseases; Brett Citarella, MD, Catherine Hansen, MD, Alaina Pyle, MD, Morgan Spaight, MD, and Jeffrey Bartlett, DO, NICU/WCHN-Danbury; James Belisle, MD, and Melton Seli, MD, NICU/WCHN-Norwalk; Logan Jerger, MD, Gastroenterology; Jessica MacCormac, DO, Adolescent Medicine; Caleb Wasser, DO, and Caroline Amin, MD (Primary Care–CHC); Jane Im, MD, Allyson Mc Dermott, MD, and Melanie Rudnick, MD, Hospital Medicine; Nordie Bilbao, MD, and Angela Verardo, MD, Endocrinology; Elizabeth Ng, MD, Neurology.

Community-based Faculty: Susan Adeyinka, MD, Christopher DeSanto, MD; Robert Dudley, MD, Susan Lelko, MD, Tricia Pinto, MD, Bhavna Sacheti-Singh, MD, Julie Schiff, MD, Nicole Taylor, MD, Persis Thomas, MD, and Michael Yencho, MD, Student Continuity Practice (UConn Health)

Joint Appointment: Craig H. Kennedy, PhD, Provost, UConn Health, Storrs.
The CT Department of Public Health awarded Connecticut Children’s the Newborn Screening Grant, a total of 1.7 million dollars over three years. Project directors Karen Rubin, MD, and Joseph Tucker, MD, led a team including Nicholas Bennett, MBChir, PhD, Donna Boruchov, MD, and Emily Germain-Lee, MD, along with Connecticut Children’s Foundation staff members Molly Dworkin and Mana Zarinejad, and Grants & Sponsored Programs department members Terry Dehnel and Kimberly Davey.

Christine Finck, MD, FACS, and her combined Connecticut Children’s, UConn Health, and Biostage teams were notified in early February 2018 that the NIH intends to fund their Phase I/Phase II Fast Track small business grant for 1.6 million dollars.

The University of Connecticut’s annual HuskyTHON raised more than 1.3 million dollars for Connecticut Children’s. This makes HuskyTHON the largest revenue-generating event after expenses for Connecticut Children’s.

Christopher Carroll, MD, from the Critical Care Division, was awarded a grant from the Institute for Collaboration on Health, Intervention, and Policy (InCHIP) at the University of Connecticut to study how patients and clinicians are using social media to communicate and interact.

Youngmok Lee, PhD, received approval from the Children’s Fund for Glycogen Storage Disease Research to fund his grant “Research Development to Improve the Efficacy of AAV Mediated Gene Therapy in GSD-1a Mouse Model.”

Donor Ross Mayer committed to creating the Ross Mayer Endowment Fund for the NICU in honor of his son, Spencer David Mayer. Mr. Mayer committed $250,000, a sum that will be matched to create a $500,000 endowment. This is the largest endowed fund for any division at the medical center. Mr. Mayer surprised James Moore, MD, PhD, division head of Neonatology, with the gift. He was particularly inspired to create it after U.S. News & World Report ranked Connecticut Children’s NICU No. 1 in the state.

With a generous gift from the Mandell-Braunstein family, Connecticut Children’s Center for Digestive Diseases established an endowed chair for Pediatric Inflammatory Bowel Disease (IBD), and has devoted resources to finding a cure for IBD. The inaugural holder of the Mandell-Braunstein Family Endowed Chair is Jeffrey Hyams, MD, head of the Division of Digestive Diseases, Hepatology and Nutrition, and director of the Center for Pediatric Inflammatory Bowel Disease.

William Zempsky, MD, received a two-year grant from the MayDay Fund. This grant will support a working group to develop the Pediatric Pain Fellowship training for pediatricians.
Connecticut Children’s Medical Center strives to encourage, support, and recognize the academic activities and achievements of its Departments of Pediatrics and Surgical Subspecialties faculty and staff. The mission of our Academic Affairs office is to empower faculty, medical learners, and community providers to succeed in their academic, professional development, research, and quality improvement pursuits by providing critical and timely administrative, technical, and educational support. Our scope of work includes oversight of our Pediatric subspecialty fellowship programs, faculty professional development including Continuing Medical Education (CME) and Maintenance of Certification (MOC), faculty appointments and promotions, departmental strategic planning and more.

The Department of Pediatrics is fortunate to have a very strong presence and administrative support on both the University of Connecticut Health Center (UConn Health) and Connecticut Children’s campuses. With faculty based at multiple institutions, administration of the Department of Pediatrics is comprised of centrally managed academic functions for affiliated faculty, and decentralized business and research management functions for all faculty.

The Chair’s Office, staffed at Connecticut Children’s, manages academic appointments, reappointment and promotion activities, merit tracking for in-residence and affiliated faculty, and produces the Departments of Pediatrics and Surgical Subspecialties Annual Report. All administrative staff in the Chair’s Office work closely together and maintain daily communication with the Department of Pediatrics Academic Office at UConn Health. The department staff manages our general fund academic budgets, including tenured faculty support, components of the residency budget, discretionary accounts, and UConn Health-based sponsored programs. Staff members also serve as the support and key logistical link between the decentralized offices within other institutions/departments and UConn Health’s administrative and financial offices. Much of the research and other sponsored activity of our faculty is administered by office staff where the faculty members are based, such as the Office of Grants and Sponsored Programs (page #126), and the Department of Research (page #102) at Connecticut Children’s.

In 2018, the office of Academic Affairs continued to implement the Department of Pediatrics three-year (2016-19) strategic plan, and support the Departments of Pediatric Surgery three-year (2017-20) strategic plan.

The academic operations are staffed by Esperanza Lesmes, senior academic operations program manager; with assistance from Deborah Hornblow, per diem editor, and include the following offices:
Faculty Appointments and Promotions
In 2018, eight faculty members from the Department of Pediatrics and one faculty member from the Division of Orthopaedic Surgery were promoted to senior rank, effective Sept. 10, 2018. In addition, nominations for appointments for two newly hired faculty that were submitted to the Senior Appointments and Promotions Committee (SAPC) were granted the appointment to senior rank. Twenty-eight new members from the Department of Pediatrics that includes two hospitalist members from WCHN-Danbury; two hospitalist members from WCHN-Norwalk; five neonatal intensive care unit (NICU) members from WCHN-Danbury; two NICU members from WCHN-Norwalk; two NICU members from St. Vincent’s Hospital; two members from the Departments of Surgery; and one members from the Orthopaedics Division were provided with junior faculty appointments. Also, nine UConn Health preceptors from the Clinical Longitudinal Immersion in the Community (CLIC) program were provided with a community-based faculty appointment in the Department of Pediatrics.

Continuing Medical Education (CME)
Supported by Diane Mouradjian, Brenda McCauliff, Elizabeth Anderson, MD, the Office of CME dedicated 2018 to updating its application submission processes, modernizing its data and compliance tracking methods, and laying the foundation for a more lean office and diverse CME portfolio beginning in the 2018-19 academic year. After a comprehensive self-study site visit and panel review, the Office of Continuing Medical Education received re-accreditation in March 2018 through the year 2022 by the Connecticut State Medical Society (CSMS), an organization sponsored by the Accreditation Council of Continuing Medical Education (ACCME). Of special note by the review committee was the high quality of educational offerings that are prepared and facilitated through our office. In 2018, our overall grand rounds lecture evaluation score for the year’s 40 speakers was among the highest in the series’ history, we hosted over 15 visiting lecture speakers from children’s hospitals and universities across the country, and for the first time, we awarded MOC Part 2 credits to CME credit recipients.

Fellowships
Marianne Custer, fellowship program manager, and fellowship program coordinators Amanda Ross, Kierstyn Callahan and Lindsay Haythorn supported 11 pediatric subspecialty and surgical fellowships and 22 fellows.

In 2018, the pediatric fellowship programs graduated seven fellows and successfully filled eight of 11 available fellowship positions. In preparation for the 2019-20 academic year, coordinators effectively supported recruitment of 126 applicant interviews across 50 days. Following a successful site visit in late 2017, the Pediatric Anesthesiology Fellowship Program received continued accreditation in 2018. Marianne, Lindsay and Amanda presented our unique “coordinator model” at the national 2018 Accreditation Council of Graduate Medical Education (ACGME) Annual Conference in Orlando, FL. Marianne and Lindsay also presented the super coordinator model at the national 2018 Spring Association of Pediatric Program Directors (APPD) Meeting in Atlanta, GA.

Practice Quality Improvement and Maintenance of Certification
Eminet Abebe Gurganus, program development and implementation manager, along with Cabrini Merclean, program manager, collaborated with faculty and community partners to develop four new QI/MOC activities for a total of 31 projects (12 internal for Connecticut Children’s physicians and 19 community-focused). In addition to our MOC Portfolio accreditation status with the American Board of Pediatrics (ABP), in October, Connecticut Children’s received MOC Portfolio accreditation from the American Board Medical Subspecialties (ABMS). QI/MOC projects promote quality improvement efforts within the hospital and serve as a bridge to the community to disseminate the hospital’s excellent quality improvement work to regional practitioners. Eminet moved on from her role with Connecticut Children’s in July of 2018. The generous support of United Healthcare continues to fund our PQI/MOC activities.

Medical Photography
Erin Blinn-Curran, Connecticut Children’s medical photographer, is the primary provider of medical and promotional photography for the institution. She supports photography needs in the craniofacial and bariatric clinics (over 1,302 clinic visits this year) and works closely with our SCAN (Suspected Child Abuse and Neglect) Program medical team. Erin also supports legal documentation requests, Continuing Medical Education, and public relations efforts through quality photographic images that enhance our website, publications, research articles and medical records. Erin took 275+ professional headshots and made 35+ department visits for photos in 2018 while also covering multiple events weekly throughout the institution. Photography highlights this year include our featured U.S. News & World Report campaign, multiple physicians in a research setting for the Connecticut Children’s Foundation gala, and an ongoing effort to capture patient stories in collaboration with Corporate Communications in addition to images for the 2018 edition of the Departments of Pediatrics & Pediatric Surgical Subspecialties Annual Report.

Departmental highlights over the last year include:

- In accordance with the University of Connecticut School of Medicine (SOM) bylaws and as requested by the Dean, Bruce Liang, MD, the Department of Pediatrics underwent its nine-year School of Medicine review in 2018. In preparation for the Nov. 30th site visit by the assigned reviewers, Drs. Rebecca Andrews, Lisa Chirch, Brenton
Gravely, and Robert Vinci, the department conducted a 10-month self-study led by Dr. Francis DiMario, associate chair for Academic Affairs, and Esperanza Lesmes. The Review Committee report will be presented to all faculty, pediatrics staff, and executive leadership at the Feb. 5, 2019, Department of Pediatrics Town Hall meeting.

In October 2018, we received Maintenance of Certification (MOC) Portfolio status from the American Board of Medical Specialists (ABMS). This will allow us to expand our MOC offerings beyond the Department of Pediatrics beginning in 2019.

**STAFF**

**Annmarie Beaulieu, MPH, BBA,**
Senior Director, Academic Affairs, Grants and Sponsored Programs

**UConn Health**

**Julie Vigil,**
Administrative Manager, Department of Pediatrics

**Laurie Papacs,**
Administrative Officer, Department of Pediatrics

**Rose Sierra**
Administrative Fiscal Assistant, Department of Pediatrics

**Connecticut Children’s Medical Center**

**Esperanza Lesmes**
Senior Academic Operations Manager

**Brenda McCauliff**
Manager, Continuing Medical Education

**Diane Mouradjian**
Continuing Medical Education Coordinator

**Elizabeth Anderson**
Continuing Medical Education Coordinator

**Marianne Custer**
Fellowship Program Manager

**Lindsay Haythorn** (promoted to Endocrinology Practice Manager, Nov. 2018)
Fellowship Coordinator

**Amanda Ross**
Fellowship Coordinator

**Kierstyn Callahan**
Fellowship Coordinator

**Cabrini Merclean**
Program Manager, Office for Community Child Health (OCCH)

**Eminet Gurganus**
Program Development and Implementation Manager, OCCH and PQI/MOC

**Erin Blinn-Curran**
Medical Photographer
In July 2018, the Division of Adolescent Medicine welcomed a second adolescent medicine physician, Jessica MacCormac, DO, MS. She joined the division after completing a fellowship in Adolescent Medicine at the Children’s Hospital of Pittsburgh. Dr. MacCormac has special interests in the transition from pediatric to adult health care, as well as adolescents and young adults with chronic illness. She is a member of Connecticut Children’s transition work group, which aims to improve the care of our transition-age youth.

Clinical Services
The Division of Adolescent Medicine provides both primary care and specialty care to adolescents and young adults in a variety of clinical settings.

- Connecticut Children’s Adolescent Medicine Clinic in Farmington: Since its creation in February 2017, the Adolescent Medicine Clinic has continued to expand, given an increase in patient volume. We provide the following consultative services to adolescents and young adults ages 10 to 24: medical management of eating disorders, menstrual disorders, Polycystic Ovary Syndrome (PCOS), sexually transmitted infection (STI) diagnosis and treatment, gynecologic exams, and contraception including same-day hormonal IUDs and the hormonal implant.
- Connecticut Children’s Primary Care at East/West Hartford: In the fall of 2018, Drs. Alyssa Bennett and MacCormac began to provide primary care and consultative care of adolescents and young adults ages 13 to 21 within Primary Care.
- Trinity College Health Center: The fall of 2018 marked the third year of a partnership between Connecticut Children’s and Trinity College Health Service Dr. Bennett serves as the center’s medical director. Drs. Bennett and MacCormac provide primary care, urgent care, and consultative care to Trinity’s undergraduate students. They also coordinate access to both specialty care and emergency care at Connecticut Children’s.

Education
Educat ing future pediatricians and pediatric subspecialists continues to be an essential part of our mission. University of Connecticut pediatric residents are required to complete a four-week Adolescent Medicine rotation during their second or third year of training. The residents work with Connecticut Children’s providers as well as our community clinical partners during their rotation. The Division of Adolescent Medicine greatly appreciates the time commitment and excellent teaching of the following clinical preceptors and their colleagues:

- Elite Sports Medicine, Farmington, CT: David Wang, MD, MS, Medical Director
- Hartford Job Corps Center, Hartford, CT: Paul Clarke, MD, Medical Director
- Westminster School, Simsbury, CT: Davis Smith, MD, Medical Director
- Institute of Living Adolescent Day Program and CARES Unit, Hartford, CT: Jennifer Zajac, MD, and Jens George, MD
- Women’s Ambulatory Health Services, Teen Clinic and Family Planning Clinic, Hartford, CT: Sarah Lindsay, MD (previously Amy Nelson, MD)

STAFF

Alyssa Bennett, MD, Division Head
Jessica MacCormac, DO, MS
The Division of Anesthesiology is recognized for the outstanding clinical care and pain management services it provides. We are committed to advancing pediatric anesthesia care, providing cutting edge therapies for the management of acute and chronic pain, and educating the next generation of anesthesiologists and nurse anesthetists.

The Division of Pediatric Anesthesiology draws on the long history of anesthesia excellence in Hartford, CT, to provide superb clinical care, innovative teaching, academic achievement and a commitment to patient safety. The division’s successes depend on the exceptional collaboration of our physicians, nurse anesthetists, advanced practice nurses, and staff.

The division consists of 14 anesthesiologists and over 13 certified registered nurse anesthetists (CRNAs) and advanced practice nurses. The Connecticut Children’s Hartford campus is our principal clinical site but we provide care at numerous locations throughout the greater capital area. At the main campus, we coordinate care for over 9,000 surgical patients of all ages and for complexities each year including elective and emergent surgery, trauma surgery, endoscopy, imaging and cardiac catheterization. Additionally, we care for over 1,500 children at the Ambulatory Surgery Center in Farmington. For patients requiring MRA, nuclear medicine, interventional radiology or transplant services at Hartford Hospital, we provide the necessary expertise and a familiar face. Urgent procedures at Connecticut Children’s NICU in Farmington also are covered by our division. Our vision is to provide compassionate care with extraordinary expertise for children in Connecticut.

Dr. Mark Indelicato is collaborating with Dr. Marcus Bookland in the division of Neurosurgery, researching the role of miRNA in possible memory and cognitive dysfunction in pediatric patients exposed to general anesthesia. Dr. Michael Archambault, in addition to his work with simulation-based training of anesthesiology and otolaryngology residents, is director of our fellowship program. We offer a 12-month ACGME-accredited advanced fellowship (CA-4 year) to those interested in advancing their technical skills and clinical knowledge in pediatric anesthesiology. Drs. Craig Bonanni, division head of Anesthesiology, Ted Cortland and Indelicato are working with Dr. Brendan Campbell in General Surgery on projects using National Surgical Quality Improvement Project (NSQIP) data to evaluate antibiotic use in surgical patients and the risk of developing a hospital-acquired infection. Dr. Eapen Mathew spends time with the division of Pain and Palliative Medicine consulting on inpatients, seeing outpatients, performing therapeutic nerve blocks, and conducting research. Dr. Gregory Kernisan continues on the board of directors of the Haitian Health Foundation, overseeing health care and educational activities in Haiti. Drs. Amy Bouchard and Bonanni presented management challenges of mediastinal masses at the annual meeting of the Society of Pediatric Anesthesia. Dr. Jay McIsaac, MD, MS, a founding board member of the Trauma Anesthesiology Society, the chair of Disaster Preparedness for the Connecticut State Medical Society, and a member of the American Society of Anesthesiologists (ASA) Committee on Trauma and Emergency, directed the first ever Hands-on Strategies for Managing Mass Casualties Workshop at this year’s American Society of Anesthesiology Annual Meeting.

PUBLICATIONS

STAFF
Craig Bonanni, MD, FAAP, Division Head
Edward Cortland, MD, FAAP, Assistant Division Head
Michael Archambault, MD
Christina Biello, DO
Cheryl Bline, MD
Amy Bouchard, DO, FAAP
John Garrison, MD
Thomas Golembeski, MD
Mark Indelicato, MD, MSc, FAAP
Gregory Kernisan, MD
Anil Mathew, MD, FAAP
Eapen Mathew, MD
Joseph McIsaac, MD, MS
Gregory Rutkowski, MD
Heather Allen, CRNA
Elizabeth Beatson, CRNA
Laura Covalli, CRNA
Kelly Gorski, CRNA
Allison Holtman, CRNA
Wendy Lord, CRNA
Barbara Richards, CRNA
Christine Rouleau, CRNA
Michelle Stevens, CRNA
Rachel Petree, CRNA
Cheyenne Douglas, APRN
Christine Grem, APRN
Alissa Zalewski, APRN
The Asthma Center is the region’s leader in pediatric asthma research and its premier resource for evidence-based asthma programs. We are dedicated to improving the health and well-being of children and families by conducting community-based collaborative research and programs. In doing so, the Asthma Center works to encourage, facilitate, and provide a mechanism for program dissemination and outcomes assessment of clinical and translational research conducted by investigators with and in community settings including schools, homes, community organizations, hospitals and ambulatory practice settings. The Asthma Center is committed to the training of investigators and community stakeholders in community-based research.

In 2018, the Asthma Center implemented a new strategic plan. The vision for the Asthma Center will be focused on developing and disseminating innovative approaches to improving the health and well-being of children, families, and communities. Using a public health approach, the Asthma Center will reduce health disparities and their determinants by conducting multi-faceted, interdisciplinary collaborative research on critical contemporary health issues facing children with asthma and establish optimal models of health management and best practices.

The flagship program of the Asthma Center, Easy Breathing®, was created by the Asthma Center founder, Michelle M. Cloutier, MD. Easy Breathing is based upon the National Heart, Lung, and Blood Institute's National Asthma Guidelines. There have been three revisions since the first Guidelines for the Diagnosis and Management of Asthma were originally released in 1991, most recently in 2007. A working group was established in 2018 to update the 2007 guidelines and is being chaired by Dr. Cloutier.

The Easy Breathing program continues to provide state-of-the-art asthma management guidelines to clinicians throughout Connecticut as well as across the country. Currently, Easy Breathing is active in three states – Ohio, Florida, and New Jersey. The Easy Breathing program also initiated a collaboration with the University of Florida at Gainesville to provide effective asthma care to residents living in two rural counties. In a patient-centered outcomes research-type of funding mechanism, we will provide asthma management expertise and training to researchers and community stakeholders with the goal of improving pediatric asthma outcomes among rural children in Florida.

Efforts are underway to digitize the Easy Breathing program. As a paper-based 20-year old program, we received funding from the Cigna Foundation to adapt the program for integration across electronic health records and school information systems. The goal of the project will be to determine the feasibility and acceptability of a tablet-based program among pediatricians in a busy federally qualified health center. Secondary outcomes will examine provision of guidelines-based asthma care, asthma health-care utilization, and school absences.

Our Easy Breathing for Schools program continues to gain recognition and expand across the state. In May 2018, Tregony Simoneau, MD, delivered a platform presentation on the effectiveness of the program in reducing overall school absences at the American Thoracic Society International Meeting in San Diego, CA. Similarly, Ms. Christine Langton delivered a workshop presentation at the National Association of School Nurses 50th Annual Conference in Baltimore, MD, in July 2018, on lessons learned from the program.

In February 2018, recruitment began for a randomized clinical trial in collaboration with CoHero Health and the Pulmonary Division to understand whether a mobile, sensor-based technology is effective at improving adherence to asthma therapy among adolescents with persistent asthma. Developed by CoHero Health, the smart sensor syncs with a smartphone app (BreatheSmart®) to remind participants to take their daily asthma therapy. Preliminary results for this study were presented by Ms. Ye Sun, an MD/MPH student at UConn Health, at the UConn Center for mHealth and Social Media Conference in May 2018.

Beginning in November 2017 and throughout 2018, Dr. Jessica Hollenbach and Ms. Sigrid Almeida began recruitment work on a project titled "Interrogating the Placental Microbiome Among Pregnant Women with Asthma." As a mentored clinical research award funded by the Robert E. Leet and Clara Guthrie Patterson Trust, Dr. Hollenbach continues to conduct this innovative study that examines the fetal and perinatal origins of childhood asthma among families disproportionately affected by this chronic disease.

Dr. Tregony Simoneau represented Connecticut Children’s at the International Conference of the American Thoracic Society in May 2018 as the moderator of a poster discussion session titled “Pediatric Severe Asthma and Phenotyping.” She also presented her poster, “Implementation of a Pediatric Severe Asthma Clinic Is Cost Effective,” in the same session.

Dr. Simoneau continued recruitment for her mentored clinical research award by the Robert E. Leet and Clara Guthrie Patterson...
Trust for the project titled “Identifying Biomarkers of Allergic Asthma: What Can the Long Non-coding RNA Tell Us?” This study is a collaborative effort with the Jackson Laboratory for Genomic Medicine in Farmington, CT. Additionally, Connecticut Children’s was accepted as a satellite recruitment site for the NIH, multicenter trial, “Preventing Asthma in High Risk Kids (PARK).” This asthma prevention study will begin enrollment in January 2019.

PUBLICATIONS


STAFF

Michelle Cloutier, MD, Emeritus Professor
Jessica Hollenbach, PhD, Co-Director, Asthma Center
Tregony Simoneau, MD, Co-Director, Asthma Center
Christine Langton, MSW, MPH, Senior Program Evaluator/Research Associate
Brian Lesmes, BA, Administrative Assistant/Research Intern
Sigrid Almeida, BS, Research Assistant
In 2018, the Division of Medical Informatics marked its first full year of existence. The period was characterized by significant growth — welcoming four jointly appointed staff members and celebrating new professional recognition. The division now includes three Clinical Informatics board-certified/eligible physicians. Also this year, Division Head Richelle deMayo, MD, CM, was named to the inaugural class of Fellows of the American Medical Information Association, a designation acknowledging leadership and achievement in applied informatics.

Physicians and advanced practitioners in Biomedical Informatics diagnose, treat and coordinate the management of health-related information technology ailments and conditions with the goal of producing high quality care processes and outcomes for providers and patients. Faculty members also are engaged in “preventive health”: identifying and introducing new technology solutions that make it easier for their colleagues to get their day-to-day tasks done. This past year saw division members involved in championing their fellow clinicians’ use of phone and tablet electronic health record (EHR) applications, mobile voice recognition, and clinical photo-capture software and a “virtual health” video visit platform.

Within the division, members have developed particular interest and proficiency in patient engagement, medication safety, provider efficiency and population health, but all members of the division are engaged on a daily basis in ensuring technology enhances rather than impedes quality health care. Biomedical Informatics division members design and evaluate solutions to enhance information acquisition, assimilation and application, focusing on human factors and user interface principles that support effective decision-making by clinical care providers and patients. Highlights of recent and ongoing Biomedical Informatics-led projects include the development of novel “dose too close” clinical alert tools to reduce cross care-continuum medication-timing errors, re-engineering of sedated procedure ordering to ensure more reliable interdisciplinary information flow, an “axe the fax” drive for paperless information exchange, and creation of electronic hand-off communications tools to facilitate inpatient team-based communication.

In addition to performing direct systems configuration and data analysis/interpretation, the division’s members regard strategy, service and advocacy on behalf of their fellow colleagues as their most important mission. The division hosts an annual Connecticut Children’s Healthy Provider IT Summit that serves as a collaborative agenda-setting opportunity for the medical center’s clinicians and information technology professionals. This past year, responding to national and local survey data regarding EHR-attributable physician burnout, the division launched a comprehensive “peer to peer” advanced training campaign for providers. The team will next helm an organization-wide initiative to optimize ambulatory specialty EHR functionality and streamline workflows.

Medical Informatics is an intrinsically multidisciplinary field; each member of the division retaining patient care responsibilities in a primary clinical specialty. Within the institution, informaticists work closely with providers from every other Department of Pediatrics academic division. Outside the walls of Connecticut Children’s, informatics team members collaborate frequently with colleagues at the University of Connecticut, Yale University, the Connecticut State Office of Health Strategy, the Connecticut Department of Public Health, and the Connecticut Hospital Association on research and policy issues including medication reconciliation and polypharmacy, opioid prescribing, and health information exchange of social determinants of health. The division’s members regularly present their scholarship at conferences and serve on committees at state, regional and national levels.

**PUBLICATIONS**


**STAFF**

Richelle deMayo, MD, CM, Division Head
Christopher Grindle, MD
Jane Im, MD
Bethany Peri, MD, PhD
Jessica Zimmerman, MD

Robin Bradshaw, APRN
Jill Herring, APRN
Kimberly Kempner, APRN
The mission of the Division of Pediatric Cardiology is to care for and improve the cardiovascular health of newborns, children and adolescents, and to transition them into healthy adulthoods. We strive to embrace discovery, teamwork, integrity and excellence in all that we do.

For the second consecutive year, U.S. News & World Report ranked Connecticut Children’s Medical Center among the Best Hospitals for Pediatric Cardiology and Heart Surgery.

Expansion
In 2018, Dr. Alexandra Channing, who completed an advanced fellowship in non-cardiac imaging, joined our division. Her expertise includes fetal cardiology and cardiac MRI. We also added one additional cardiac sonographer, Ms. Kelsey Bogen, to our team to accommodate increasing cardiology patient volumes. Dr. Felice Heller, working in conjunction with the Division of Neurology, re-established a program for heart disease in muscular dystrophy. Dr. Heller has been providing expert pediatric and adult congenital cardiology outreach outpatient services in Norwich, CT, since December 2017. This is in addition to our other ambulatory pediatric clinics in Danbury, Glastonbury and Farmington. We also support fetal cardiology care in conjunction with our colleagues at Danbury Hospital. This year, Dr. Alex Golden created and chairs the new Connecticut Children's Vascular Anomalies Committee. This committee reviews complex patients with vascular anomalies to provide coordinated multidisciplinary care.

Interventional Cardiology and Electrophysiology: Procedural Innovations
Dr. Frederic Bernstein serves as the director of Interventional Cardiology at Connecticut Children’s, performing all of the cardiac catheterization for the pediatric and adult congenital population.

The catheterization and electrophysiology laboratory continues to be an active member of the American College of Cardiology National Cardiovascular Data Registry IMPACT registry™, a multi-institutional collective designed to support evidence-based guidelines and review of performance benchmarks. The lab also participated in the Reducing Radiation Quality Care Initiative™, leading to drastic reductions in radiation exposure for Connecticut Children's patients.
Dr. Bernstein continues to serve as a consultant and primary investigative researcher for a UConn-founded, Connecticut-based biomedical engineering firm. Its primary work is the development and design of new medical devices, specifically implantable stent-based prosthetic valves.

Dr. Shailendra Upadhyay, the division’s interim medical director, performs state-of-the-art non-fluoroscopic catheter ablation for supraventricular tachycardia in children. Connecticut Children’s is the only medical facility in the state to routinely perform this procedure without X-ray use. Fluoroscopy time for catheter ablation of arrhythmias at Connecticut Children’s is way below the national average.

Dr. Upadhyay remains the only certified pediatric electrophysiologist in the state. Under his guidance, the arrhythmia services at Connecticut Children’s provide the full array of cardiac rhythm management to children with heart rhythm disorders. Connecticut Children’s provides a dedicated pediatric pacemaker clinic run by a pediatric electrophysiologist and a pacemaker nurse.

In addition to cardiac surgery, the division’s strengths in interventional cardiology and electrophysiology have been instrumental in inclusion of our hospital in the U.S. News & World Report rankings.

**Adult Congenital Heart Disease Program**

Connecticut Children’s provides the most comprehensive care of adults with congenital heart disease (ACHD) in the state of Connecticut. Our Connecticut Adult Congenital Heart Service (CTACH) received accreditation as a comprehensive adult congenital heart disease center by the Adult Congenital Heart Association (ACHA) in 2018. Our program is the first and only accredited ACHD program in the state of Connecticut and one of only 23 in the nation. Our ACHD program was rated excellent by U.S. News & World Report. The program is overseen by three providers, Drs. Felice Heller and Upadhyay, and Whitney Fairchild, APRN. Drs. Heller and Upadhyay are both board-certified adult congenital cardiologists. The outpatient clinic follows over 1,000 adults with congenital heart disease on an annual basis. It also offers comprehensive pregnancy management for patients with congenital heart disease. We work collaboratively with Hartford Hospital in care of ACHD patients and provide inpatient consultations there. We have developed specific institutional policies to provide best care to these patients.

**Non-Invasive Imaging: Pediatric and Adult**

This year marked the highest volume yet of transthoracic, transesophageal, and fetal echocardiograms performed by the echocardiography lab at Connecticut Children’s main hospital and satellite locations. Sonographers expanded their performance of inpatient echocardiograms on weekends to improve the efficiency and quality of the studies, and our patient care. We continue to maintain quality initiatives, have developed imaging protocols, and are engaged with ongoing education for sonographers and cardiology colleagues. Our echocardiography team, certified by the Intersocietal Accreditation Commission, continues our commitment to performing the highest quality echocardiograms with efficient and accurate interpretation to serve the babies, children, and adults with congenital heart disease and acquired cardiac illness in our community.

**Non-Invasive Imaging: Fetal**

Our fetal cardiology program experienced continued growth this year. We performed about 350 fetal echocardiograms in 2018, an increase of 75 percent compared to 2017. To accommodate our growth, our division has grown with the addition of a fetal cardiologist and a fetal sonographer. Our multidisciplinary fetal cardiology team includes cardiologists, nurses, specially trained sonographers, obstetricians, maternal-fetal medicine specialists, neonatologists, the palliative care team, and pediatric cardiothoracic surgeons. We provide services in Hartford on the main campus and at our satellite clinic in Farmington. We present monthly educational conferences for the regional maternal-fetal medicine specialists, and we are the primary site for teaching fetal echocardiography for the maternal-fetal medicine fellow at the University of Connecticut. We are actively working on the development of a fetal registry and on clinical care pathways that will enable us to track and optimize outcomes in our fetal patients.

**Non-Invasive Imaging: Cardiac MRI**

Cardiac magnetic resonance (CMR) imaging is an important diagnostic tool in the care of all patients with congenital and acquired heart disease. It is now a standard of care for evaluation of adults with congenital heart disease. Dr. Olga Toro-Salazar leads our program, which this year received a boost with the addition of Dr. Channing, who brings advanced training in cardiac MRI imaging. Our cardiac MRI program has grown substantially over the years providing state-of-the-art care for children and adults with congenital heart disease, and for cardio-oncology patients.

**Non-Invasive Imaging: Cardio-Oncology Program**

The Cardiology and Hematology-Oncology divisions at Connecticut Children’s collaborate in maintaining a cardio-oncology program, COPE (Cardiovascular Oncology Prevention Experience). The program focuses on chemotherapy-related damage to the heart. A multidisciplinary clinical, imaging and research team has created a registry of cancer patients treated with cardio-toxic medications at Connecticut Children’s. The program aims to provide uniform, evidence-based cardiac care to childhood survivors of cancer by way of research and innovations.

**Inpatient Cardiology**

The Inpatient Cardiology program continues to serve the hospital for inpatient consultations and to provide care for children with
congenital and acquired heart disease and adults with congenital heart disease. The inpatient team collaborates closely with the Critical Care team, the Pediatric Surgery service, and the Neonatal Intensive Care team to provide care of pre- and post-operative cardiac patients with special attention to standardization of care, smooth transition of care from the ICU to regular nursing floor settings, and from inpatient to outpatient settings. Several Quality Improvement measures were undertaken including the development of a board and daily rounding system for inpatient cardiology services. A cardiac nursing task force and a didactic nursing educational program have been developed and implemented. The inpatient team continues to provide education to the house staff and medical students, both on rounds and in didactic settings.

**Education**

Our division is dedicated to the medical education of future providers and medical professionals. Drs. Heller and Upadhyay provide training in congenital heart disease for adult cardiology fellows from Hartford Hospital and John Dempsey Hospital. We have created a formal one-month rotation for adult cardiology fellows with exposure to all aspects of congenital heart disease. Among all Cardiology services at Hartford Hospital and UConn Health, ours was rated the best in teaching for adult cardiology fellows. Dr. Heller serves as a content expert for the first-year medical students core curriculum. She has created a highly regarded lecture series on congenital heart disease for adult cardiology fellows.

Dr. Alicia Wang provides training in fetal cardiology for the maternal-fetal medicine fellows at the University of Connecticut. We provide subspecialty training for pediatric residents in Pediatric Cardiology. We also contribute to the training of medical students at both the University of Connecticut and the state’s newest medical school, Quinnipiac University.

The School of Pediatric Cardiac Ultrasound through the Hoffman Heart and Vascular Institute of Connecticut is now in its ninth year. It is recognized by the Joint Review Committee on Education in Cardiovascular Technology (JRC-CVT) and the Commission of Accreditation of Allied Health Education Programs (CAAHEP). Connecticut Children’s Echo Lab is the training site for didactic and hands-on instruction of pediatric ultrasound for one to two sonographers yearly.

Under the research mentorship of Drs. Toro-Salazar, Brooke Davey, and Upadhyay, our residents, Drs. Sarah Kollar and former resident Tam Doan, were able to complete research studies and present data at national meetings.

**Professional Recognition**

Dr. Heller has an international reputation as an expert for LMNA cardiomyopathy with patients seeking her care from outside the state of Connecticut. She was invited to participate in the Weitzman Institute Project ECHO live videoconference on Syncope, providing didactic instruction and discussing challenging cases with providers from across the country.

The 10th Annual New England Congenital Cardiology Association Meeting took place October 13-14th at Water’s Edge Resort and Spa in Westbrook, CT. Dr. Davey was the regional host. In addition to hosting, she represented Connecticut Children’s as a panelist for the Case Presentation discussion. Sixty-eight congenital cardiology physicians and nurse practitioners from 14 practices across all six states in the New England region participated in the two-day meeting.

Dr. Bernstein achieved the distinction of becoming a Fellow of the Society of Cardiovascular Angiography and Interventions (SCAI), the primary professional association for pediatric and adult interventional cardiologists. He also represented Connecticut Children’s during his invited professorship at the U.N. Mehta Institute of Cardiology and Research Center (which is affiliated with B.J. Medical College) in Ahmedabad, India, in February 2018.

Dr. Toro-Salazar presented “Assessment of Cardiac Injury and Toxicity from Cancer Chemotherapy” at the Multinational Association of Supportive Care in Cancer Annual Meeting held June 28-30, 2018, in Vienna, Austria.

Whitney Fairchild, APRN, was accepted into an evidence-based practice (EBP) fellowship program. She spearheaded an ongoing project involving a study to investigate and improve self-health management skills in the adult congenital heart disease population.
Cardiology Research Program

Immunology and Congenital Heart Disease
The multicenter collaboration for the project “T-Cell Receptor Excision Circles: A Novel Approach to Identify Immunodeficiency in Newborns with Congenital Heart Disease (CHD)” is supported by grant funding from the New England Congenital Cardiology Association (NECCA) Research Foundation. Data analysis demonstrated for the first time that newborns with CHD have lower T-cell Receptor Excision Circle (TREC) levels in comparison to 37,101 newborns in the general population. This project was presented by Dr. Davey at the American College of Cardiology 67th Annual Scientific Session in 2018 in Orlando, FL, and at the Pediatric Academic Societies 2018 Annual Meeting in Toronto, Canada.

Fontan Working Group
The Connecticut Children’s team continues to work closely with the Fontan Working Group through the New England Congenital Cardiology Association. Dr. Davey presented results from a multicenter survey, “Surveillance and Screening of Fontan Patients,” at the Pediatric Academic Societies Annual Meeting in Toronto, Canada.

Cardio-Oncology Research
Anthracycline-induced cardiomyopathy (AIC) presents a major long-term issue in survivors of childhood cancers treated with anthracycline group medications. Dr. Toro-Salazar and Milena Furtado from the Jackson Laboratories in Farmington, CT, are leading a multidisciplinary team to ensure advancement of our understanding of molecular and cellular mechanisms underlying the development of AIC severe adverse sequela. Our preliminary data is quite encouraging, and results were published in the American Journal of Physiology, and Cardio-oncology.

Active Grants
Hartford Foundation for Public Giving (Toro-Salazar, PI) – 1/1/2016-12/31/2018. Establishing Cardiac Magnetic Resonance Imaging as the Standard of Care for Childhood Cancer Patients Exposed to Anthracycline Therapy.


PUBLICATIONS


STAFF

MacDara Tynan, MD, Interim Division Head
Shailendra Upadhyay, MD, CEPS, FHRS, Interim Medical Director
Frederic Bernstein, DO, FACC, FSCAI
Leon Chameides, MD, Professor Emeritus
Alexandra Channing, MD
Brooke Davey, MD
Alex Golden, MD, MMM
Felice Heller, MD
Seth Lapuk, MD, FAAP, FACC
Olga Toro-Salazar, MD
Alicia Wang, MD
Whitney Fairchild, APRN
Lisa McCabe, APRN

Nationally renowned congenital heart surgeon Dr. Dennis Mello joined the staff of Connecticut Children’s as clinical director of cardiovascular surgery in 2018. Dr. Mello has performed numerous complex congenital heart surgeries since his arrival including a Norwood operation for hypoplastic left heart syndrome. His operative results are excellent. Dr. Neal Devejian, a congenital heart surgeon, and Dr. Kenneth Warner, an experienced adult congenital heart surgeon, have been credentialed for congenital heart surgeries at Connecticut Children’s. Both Drs. Devejian and Warner operate alongside Dr. Mello, further strengthening our congenital heart surgery program and regional collaborations.

Our surgical data and operative outcomes are periodically submitted to the Society of Thoracic Surgeons (STS) Congenital Cardiac Surgery Database (www.sts.org). The STS Database includes more than 94 percent of the congenital cardiac surgery programs in North America and helps establish outcome and quality benchmarks. We continue to rank very well with these objective benchmarks and, in 2017 and 2018, we were ranked among best U.S. hospitals for heart surgery. Our results are included and updated on the STS website.

The Pediatric Cardiothoracic Surgery service strives for discovery, teamwork, integrity and excellence in cardiac surgical care. Cardiothoracic Surgery, Pediatric Cardiac Anesthesia, the Pediatric Intensive Care Unit (PICU) and Pediatric Cardiology have worked together in a strong collaboration to provide a uniform standard of care to patients with congenital heart disease who are seeking surgery.

Education
The service provides ongoing education and support for cardiac nurses in the PICU.

STAFF
Dennis Mello, MD, Clinical Director, Cardiothoracic Surgery
Neal Devejian, MD, Congenital Heart Surgeon
Kenneth Warner, MD, Adult Congenital Heart Surgeon

Jill Sullivan, MS, PA-C
The Center for Airway, Voice, and Swallowing, also known as the Aerodigestive Team, was started in 2011 and was designated in 2017 as a surgical division within Otolaryngology. The mission of the center is to provide state-of-the-art care for children with complex disorders affecting airway, breathing, feeding, swallowing, and growth.

The center is truly unique in that it is multidisciplinary, consisting of pediatric specialists from Otolaryngology, Pulmonology, Gastroenterology, Speech and Language (Swallow) Pathology, and General Surgery. Appointments with our team include a coordinated visit with pertinent specialists and concurrent diagnostic tests or interventions. For many patients, coordinated surgical endoscopy (also called a “triple scope”) is the next step in evaluation and treatment.

Our synchronized approach offers many advantages for patients and families, including fewer doctor visits and missed days of school/work; fewer exposures to anesthesia; less time to effective treatment; and, by combining surgical procedures and minimizing off-target testing, families generally see fewer out-of-pocket medical costs. The ultimate advantage is that our collaboration yields more comprehensive, sophisticated, and effective treatment for this vulnerable population.

Our Center for Airway, Voice, and Swallowing continued to grow in 2018. We offer multiple clinics with facilities in Farmington, Glastonbury, and Hartford. Full Aerodigestive Team clinics are held three times monthly (Hartford, Farmington). Focused specialty clinics are also offered: Airway clinics are held twice weekly (Hartford), voice clinics are held twice monthly (Glastonbury, Farmington), and swallow clinics are held twice monthly (Hartford, Farmington). Our team operates together twice monthly, a number that has doubled since last year to keep up with demand. Our faculty increased in 2018 as well. We added pediatric gastroenterologists Drs. Victoria Grossi and Peter Townsend to our team. We are especially pleased to have added a new position to our center: Barbara Mulholland, RN, is our new aerodigestive nurse.

Nationally, the team was honored again to have been selected to lead teaching sessions at the 6th Annual Contemporary Management of Aerodigestive Diseases in Children conference. This year, we doubled our presence with division head Dr. Nicole Murray and Rebecca Strong, APRN, both teaching sessions at the conference.

Our team members also enhanced or gained international reputations this year: Dr. Katherine Kavanagh continues to teach sophisticated pediatric airway procedures in international sessions, teaching this year at the European Society of Pediatric Otolaryngology in Stockholm, Sweden. Dr. Murray taught the pediatric component of the first United States session of the international course “The Altered Airway,” which is sponsored by the Global Tracheostomy Collaborative. Our swallow experts Kamie Chapman, Marni Simon and Virginia Van Epps taught a webinar for the International Dysphagia Diet Standardization Initiative.

**GRANTS**

Simoneau T. Cigna Foundation World of Difference Grant Creating an Asthma Network: Improving Asthma Management for Children in the North Hartford Promise Zone.


**PUBLICATIONS**


**STAFF**

**Nicole Murray, MD, Director, Aerodigestive Team**  
Otolaryngology – Head and Neck Surgery

**Victoria Grossi, DO**  
Pediatric Gastroenterology

**Katherine Kavanagh, MD**  
Pediatric Otolaryngology

**Craig Lapin, MD**  
Pediatric Pulmonology

**Anne McLaughlin, MD**  
Pediatric Pulmonology

**Christine Rader, MD**  
Pediatric Surgery

**Tregony Simoneau, MD**  
Pediatric Pulmonology

**Peter Townsend, MD**  
Pediatric Gastroenterology

**Bella Zeisler, MD**  
Pediatric Gastroenterology

**Sara Burnham, MA, CCC-SLP**  
Speech/Language Pathology

**Kalie Chapman, MS, CCC-SLP**  
Speech/Language Pathology

**Kathryn Fields, MS, CCC-SLP**  
Speech/Language Pathology

**Kelly Mabry, PhD, CCC-SLP**  
Speech/Language Pathology

**Anna Maria Mennella, LMSW**  
Family Support Clinician

**Barbara Mulholland, RN, BSN, CPN, CNRN**  
Nursing Coordinator

**Marni Simon, CCC-SLP, BCS-S**  
Speech/Language Pathology

**Rebecca Strong, CPNP, APRN**  
Clinical Coordinator

**Virginia M. VanEpps, M.Ed., CCC-SLP, CLC**  
Clinical Manager, Speech-Language Pathology

**Claribel Vega, MA**  
Administrative Coordinator

**Virginia Weill, MEd, CCC-SLP**  
Speech/Language Pathology
The Center for Behavioral Health (CBH) focuses on developmental and clinical psychology research, especially as it relates to child and adolescent health and pediatric care. The research conducted by CBH investigators is interdisciplinary, collaborative, and emphasizes the psychological and physical health of children, adolescents, and their families. CBH research takes place in settings such as Connecticut Children’s medical clinics, schools, homes, and community organizations.

In 2018, the Center for Behavioral Health welcomed research assistant Tessa Fagle, BA.

The year was an extremely busy one for the CBH. Our work yielded 22 presentations at national conferences including the Society for Research on Adolescence, the National Council on Family Relations, the Society of Pediatric Psychology, the Research Society on Marijuana, the Pediatric Pain Management: State of the Art and Science Conference, the American Society for Pain Management Nursing, the Society of Pediatric Psychology, the Association for Psychological Science, and the American Psychological Association annual and biennial meetings. As a group, we published 20 manuscripts, many in top-tier journals. Our research also was featured in outlets such as NBC CT News. In addition, Kelly Nedorostek, a University of Connecticut medical student, won the Connecticut Academy of Family Practice Award for research she conducted with us at the CBH. On another high note in 2018, Dr. Jessica Schulz’s dissertation, which was supervised by division head Dr. Christine McCauley Ohannessian, was based on the CBH’s Adolescent Adjustment Project, and it was included in ProQuest’s list of the 25 most-accessed/downloaded dissertations.

The CBH has a number of active research projects. Projects led by Dr. Ohannessian include the Adolescent Adjustment Project (AAP; adolescentadjustmentproject.org), the BALANCE project (balanceresearchproject.org), the PANDA project (Predictors of Adolescent Depression and Anxiety; pandaresearchproject.org), and the REACH Project on emerging adults (reachresearch-project.org). Data from the AAP and the REACH projects have yielded 12 published papers this past year. Our NSF-funded BALANCE project also has been busy. The BALANCE project is a partnership between Connecticut Children’s Medical Center, the University of Maryland, and Georgia State University. The goal of BALANCE is to examine the influence that parental work and family conflict have on one another and how they interact to influence adolescent behavioral health. Survey data collection has been completed for 100 families, and laboratory data collection now is ongoing. This past year we published two papers based on the BALANCE project data. Our PANDA project, funded by the Alvord Foundation, has been quite active as well. The primary aim of the PANDA project is to examine predictors of gender differences in depression and anxiety during early adolescence. We have collected four waves of data from approximately 1,500 middle school students in Connecticut and Massachusetts. We are in the process of collecting a fifth wave of PANDA data. In 2018, we also published our first PANDA paper. Numerous students have been involved in these CBH research projects, including 40 UConn undergraduate students. This past year, Dr. Ohannessian collaborated as a co-investigator with Dr. Yifrah Kaminer from the Psychiatry Department at
UConn Health, and investigators from Duke University on an NIH-funded project focusing on treatments for adolescents with substance use disorders and depression. In addition, Dr. Ohannessian collaborated with Dr. Caitlin Elsaesser from the University of Connecticut School of Social Work and Dr. Desmond Patton from the Columbia University School of Social Work on a research project focusing on social media use and aggressive behavior in youth living in violent neighborhoods.

During 2018, Dr. Jessica Guite and her research team continued their advance clinical research capacity at Connecticut Children’s with a focus on intervention development for youth with chronic pain/symptoms and their parents, and research related to effective self-management of these challenging problems. Dr. Guite’s collaborations with colleagues at Connecticut Children’s and external partners generated publications focusing on various aspects of chronic pediatric pain management in the context of interdisciplinary care. Dr. Guite and her co-principal investigator, Dr. Beth S. Russell of the UConn Department of Human Development & Family Studies, published and presented symposia on their project, “Parents as Coping Coaches (PaCC).” It is a UConn InCHIP/Connecticut Children’s Dual-PI Seed Grant-supported brief, parent-focused group intervention to improve parenting distress tolerance and caregiver burden (primary aims) and functional outcomes for adolescents with chronic pain syndromes (secondary aim) while pursuing funding to further develop this line of research. Dr. Guite was delighted to also welcome the first Pediatric Pain Psychology postdoctoral fellow as a member of her research team. It’s a position that has provided an important foundation for further behavioral health program development, academic productivity, and interdisciplinary clinical research expansion at Connecticut Children’s. Her role as site PI at Connecticut Children’s generated effective team-science collaboration and a very successful first year of the NIH-funded Phase III multisite clinical trial, “Multi-site randomized clinical trial of FIT Teens for juvenile fibromyalgia (https://clinicaltrials.gov/ct2/show/NCT03268421).” Originating at Cincinnati Children’s Hospital Medical Center (primary site), this five-year, seven-site project will test whether FIT Teens, an 8-week group intervention combining coping skills (cognitive behavioral therapy/CBT) and neuromuscular exercises to improve strength, fitness and body mechanics, is more effective at reducing disability compared to CBT or Graded Aerobic Exercise (GAE) alone at three months, and if treatment effects are maintained over 12 months. Participation in this rigorous, prospective, randomized controlled trial further provides opportunities for ancillary research protocol development including projects examining pain-related readiness to change as a potential mechanism of action in relation to intervention effects over time.

During 2018, the Center for Behavioral Health collaborated with many external partners including the University of Alabama, Columbia University, Illinois State University, the University of California Berkeley, the University of Connecticut at Storrs, UConn Health, UConn School of Social Work, the University of Delaware, the University of Maryland, the University of North Carolina, Georgia State University, the State University of New York, Cincinnati Children’s Hospital Medical Center/University of Cincinnati, Children’s Hospital of Philadelphia/University of Pennsylvania, Children’s Hospital of Wisconsin/Medical College of Wisconsin, Hartford Hospital/the Institute of Living, and the Alvord Foundation.

**PUBLICATIONS**


**STAFF**

Christine McCauley Ohannessian, PhD, Director, Center for Behavioral Health

Sonja Gagnon, BS

Jessica Guite, PhD

Tessa Fagle, BA

Melanie Klink, BA

Courtney Lincoln, MA

Emily Simpson, MA

Anna Vannucci, MS
The Center for Global Health (CGH) improves the health of children who live in resource-limited settings by supporting the collaborative, sustainable capacity-building activities of our learners, staff and faculty. The CGH creates a culture that reinforces our status as world citizens and the recognition that we have the ability, opportunity and responsibility to improve the health of children not just locally but throughout the world, which also allows the hospital community to fully share their gifts.

This mission is accomplished through educational activities such as the Global Healthcare Conference, the Global Health Film Festival, and the educational and clinical work performed by our team on-location in resource-limited settings. This year, in the clinical realm, major accomplishments of the CGH included over four capacity-building missions to Haiti, including a PALS teaching course in collaboration with Konbit Santé at Justinien University Hospital in Cap-Haitien, Haiti, and a trip to assess the clinical status and capacity of the Faith Mulira Health Care Center in Uganda, Africa, in collaboration with the Masooli Project. Additionally, we continued our collaboration with other activities in Haiti, India, and at the local level in Hartford, CT.

The CGH has continued its growth from the original hospital-based effort to bring together like-minded individuals who are dedicated to collaboratively exploring and solving complex health challenges in resource-limited settings. The program continues to be led by Adam Silverman, MD, as director, and Karen Damon Callahan, MHS, RN, CPN, as associate director, with support from the Executive Management Team and Physician-in-Chief Juan C. Salazar, MD, MPH, FAAP. The CGH benefits Connecticut Children’s by continuing to provide opportunities for learners, staff and faculty to participate in philanthropic global health activities, in addition to increasing access to high-quality care for children throughout the world. These efforts have been shown to improve job satisfaction and institutional loyalty, and reduce staff turnover. The CGH identifies methods for lowering barriers to participation in global health-care activities as well as training the next generation of global health-care providers and leaders.

During 2018, the CGH continued its mission of education and culture-building by providing a venue for sharing efforts of health-care providers from Connecticut Children’s, the University of Connecticut School of Medicine, and our other institutional health-care partners during the sixth annual Global Healthcare Conference and the fifth annual Global Health Film Festival. Specifically, the 2018 conference included speakers from within Connecticut Children’s as well as outside institutions in order to highlight the activities of volunteers.
who participated in a variety of activities in locations such as Haiti, Iraq, India, Namibia, Nicaragua, Puerto Rico, Rwanda, and locally in Hartford and New Haven, CT. Additionally, the CGH expanded its efforts to educate and bring awareness to health care providers regarding global health successes and dilemmas by presenting at nursing grand rounds, and accepting invitations to speak in a Traveling Grand Rounds program hosted by various hospital locations around the state of Connecticut during the fiscal year 2019.

The foundation of these capacity-building activities are collaborations, partnerships and sustainable volunteering opportunities with several organizations including:

- Justinien University Hospital as volunteers with Konbit Santé in Cap-Haitien, Haiti
- Hôpital Bernard Mevs as volunteers with Project Medishare in Port-au-Prince, Haiti
- St. Damien Pediatric Hospital as members of the St. Damien Collaborative in Port-au-Prince, Haiti
- Hospital Sacré Coeur Pediatric Diabetes Program as volunteers with CRUDEM in Milot, Haiti
- NICE Foundation Cool the Kids program in Hyderabad, India
- The Faith Mulira Healthcare Centre as volunteers with the Masooli Project in Masooli, Uganda

PUBLICATIONS


OUR TEAM

Adam Silverman, MD, FAAP – Director, Connecticut Children’s Center for Global Health; Emergency Medicine and Critical Care physician

Karen Damon Callahan, BSA, BSN, MHS, RN, CPN - Associate Director, Connecticut Children’s Center for Global Health, Nurse Manager, Neonatal Intensive Care Unit

Brendan Campbell, MD, MPH, FACS – Director of Trauma, Pediatric Surgical Quality and Safety Officer

Nancy Dunbar, MD, MPH, FAAP – Endocrinologist

Melissa Held, MD – Infectious Diseases & Immunology Physician

Victor Herson, MD – Neonatologist

Naveed Hussain, MD – Neonatologist

Cliff O’Callahan, MD, PhD, FAAP – Pediatric Faculty and Director of Nurseries, Middlesex Hospital; Associate Professor, Pediatrics, University of Connecticut School of Medicine; Assistant Professor, Family Medicine, Frank H. Netter, MD, School of Medicine, Quinnipiac University

Andrea Orsey, MD – Director, Cancer Supportive Care Program

Juan C. Salazar, MD, MPH, FAAP – Physician-in-Chief and Executive Vice President, Academic Affairs, Connecticut Children’s

Kristin Welch, MD – Emergency Medicine Physician

Stephen Mahier, BSN, RN – Pediatric Intensive Care Unit (PICU) Nurse
The Division of Child Abuse Pediatrics provides clinical evaluation services through the Suspected Child Abuse and Neglect (SCAN) program at Connecticut Children’s Medical Center. Consults are provided on an inpatient and outpatient basis at the Hartford campus of Connecticut Children's, and they include comprehensive expert medical evaluation and psychosocial assessment for children who may have experienced maltreatment. Program staff members offer support to caregivers throughout the evaluation process. We seek to collaborate with multidisciplinary partners in the service of the child and family, and strive to improve community response to child maltreatment through education, research, prevention and advocacy.

Beyond clinical work, 2018 activities of division staff included the following:

- Teaching medical students, residents and fellows with didactics and block rotations
- Teaching statewide multidisciplinary partners, including child protective service workers, members of law enforcement, and attorneys
- Participation in five regional community multidisciplinary teams: Hartford/MDT 14, Central Connecticut New Britain/Bristol, East Central MDT, North Central MDT, and Tolland MDT
- Provision of regular expert testimony in Connecticut courts
- Participation in statewide initiatives focused on child abuse prevention, human trafficking, domestic violence, and abusive head trauma
- Provision of national training to attorneys on medical evaluation of abuse and neglect
- Participation in research
- Participation in quality improvement initiatives
- Provision of national medical peer review to other medical providers
- Service on national committees for the American Academy of Pediatrics Section on Child Abuse and Neglect and the Ray E. Helfer Society

STAFF

Medical
Nina Livingston, MD, Division Head
Rebecca Moles, MD
Audrey Courtney, APRN
Sarah Dean, APRN

Family Advocacy/Social Work
Ashley Bolella, LCSW
Alexandra Derbacher, LMSW

Administrative
Wanda Vasquez, CSG Manager
Anabela Coyne, Program Coordinator
The Division of Child and Adolescent Psychiatry remains a highly vibrant resource within the Department of Pediatrics at Connecticut Children’s Medical Center. In 2018, we expanded our division to include two additional child and adolescent psychiatrists to serve as consultants to the behavioral health emergency services within the Pediatric Emergency Department and to the inpatient consultation-liaison team, and two additional physicians to our inpatient service at the Institute of Living (IOL). We are actively recruiting new physicians as the demand for child psychiatry services, especially for future collaboration efforts with Connecticut Children’s, continues to grow. In addition, our team at Connecticut Children’s has continued to partner with the Inpatient Management Team (IMT) to develop clinical pathways for our most complicated patients in order to provide effective collaborative care models based on extensive research of evidence-based treatment and national consensus.

At Connecticut Children’s, the division’s services include: a consultation/liaison service that provides inpatient evaluations on any patient who is presenting with behavioral health concerns that may indicate co-occurring psychiatric and medical conditions; and emergency psychiatric assessment, triage and disposition services within the Connecticut Children’s Emergency Department. At the IOL, clinical services include: individual, group, and family therapies; pharmacotherapy; and diagnostic evaluations. These services are provided through: inpatient units for children and adolescents; the Child and Adolescent Rapid Emergency Services (C.A.R.E.S) unit, a very short-term setting interfacing directly with Connecticut Children’s Emergency Department that focuses on the assessment, stabilization, and disposition of children and adolescents in acute behavioral crisis; the Grace Webb School, a therapeutic educational setting for children and adolescents with co-existing psychiatric and learning difficulties; an outpatient child and adolescent clinic; an Extended Day Treatment Program for older school-aged children; and a partial hospital program for children and adolescents. The adolescent program has a specialized track for early onset psychotic disorders.

In addition, on the campus of the IOL, we continue to serve as one of the hubs for the ACCESS-Mental Health CT program, a collaborative educational, consultation and assessment program between primary care providers and child and adolescent psychiatrists providing more than 1,000 phone consults to primary care physicians (PCPs) yearly, and 2,200 care coordination activities since the program started in June of 2014. Under the leadership of Dr. Lisa Namerow as medical director, our team has consistently obtained excellent ratings on all hub activities from our PCPs.

On the campus of Connecticut Children’s, we continue to work closely with the Inpatient Management Team (IMT), developing collaborative care pathways. We recently completed a delirium pathway along with our hospitalist colleagues with input from Neurology, Rheumatology, intensivists and ED physicians, all of whom serve as potential providers and stakeholders in the care of patients with this condition. This has required a full hospital-wide shift in culture and education because it requires both a screening/prevention arm and a management arm. Although many pediatric hospitals have a delirium clinical pathway for their ICUs, we will be among the first to do hospital-wide screening. Working in collaboration with Dr. Catherine Wiley, division head of General Pediatrics and medical director of the Primary Care Center, and Dr. Karen Rubin, director of the Office of Innovation in Clinical Care Delivery, we are near completion of an outpatient collaborative care pathway for the treatment of anxiety and depression within primary care. Once the pathway is completed, we will focus on education and dissemination of the tool. We will also determine outcome measures to support the efficacy of standardizing treatment approaches especially in patients who require collaboration between mental health providers and medical providers.

Connecticut Children’s and the IOL remain highly active teaching sites for many trainees: child and adolescent psychiatry fellows; general psychiatry residents; psychology interns; pediatric residents and medical students; as well as a post-doctoral fellow who joins our consultation-liaison service for 12 months. In 2018, we had over 50 learners assigned to one of our clinical sites. They included pediatric residents, who are now rotating through our adolescent service as part of their adolescent medicine training in addition to doing electives in child and adolescent psychiatry on our outpatient and consult services.

In the research area, Dr. Namerow and her colleagues from the IOL, Dr. Gualberto Ruano and Michael Stevens, PhD, completed their three-year project addressing the role of pharmacogenomics in the treatment of pediatric depression. They presented a poster on the study’s results at the American Academy of Child and Adolescent Psychiatry annual meeting in October. In addition, Michael Stevens, PhD, and Michal Assaf, MD, of the Olin Neuropsychiatry Research Center on the campus of the IOL, remain active in the area of fMRI research in mental health conditions such as ADHD, autism, and mood disorders.
Dr. Assaf presented three abstracts recently at the annual meeting of the Society of Biological Psychiatry. Our clinical trials program, which includes pediatric psychopharmacology research, is now under the leadership of Dr. Mirela Loftus and continues to have active and ongoing projects.

While our division is relatively modest in size compared to those at other hospitals, we are among the most active in terms of presentations on topics that integrate the work of pediatrics and child psychiatry. This year, we were honored to have been selected to present on four diverse topics at the American Academy of Child and Adolescent Psychiatry (AACAP) annual meeting in Seattle, WA, in October 2018. They were homicide risk assessments, pharmacogenomics, autoimmune encephalopathy, and integration of clinical pathways in pediatrics (which also highlighted the work of Drs. Ilana Waynik and Anand Sekaran from the division of Hospital Medicine). In addition, Drs. Catherine Sullivan (IMT), Emily Kutner (pediatric psychology), and Namerow, presented an abstract on the outcome impact of our MUPS pathway at the American Academy of Pediatrics annual conference in November 2018.

PUBLICATIONS


**STAFF**

Robert Sahl, MD, Division Head
Ben Anderson, MD
Michal Assaf, MD
Sudeshna Basu, MD
Eric D. Cohen, MD
Rosemary Coratola, PsyD, LMFT
Mirjana Domakonda, MD
Jensi George, MD
Julie Goslee, MD
Sheena Joychan, MD
Saili Kalaskar, MD
Mirela Loftus, MD
Daane Logsdon, DO
Salma Malik, MD
Lynn Mangini, MD
Lisa Namerow, MD, Director of Consultation Services to Connecticut Children’s Medical Center, Medical Director for accessmh, IOL hub
Francisco Ripepi, MD
Kenneth Robson, MD
Michael Stevens, PhD
Kashmeer Zablan, MD
The Division of Community Pediatrics is the largest division at Connecticut Children’s Medical Center. There are 89 community-based faculty members with academic appointments in the Department of Pediatrics at the University of Connecticut School of Medicine which includes 40 physicians that are members of the Connecticut Children’s Medical Staff Office with active, courtesy, or refer-and follow-up privileges(*).

Our members provide primary pediatric care to most children from the Greater Hartford area, including health maintenance, sick care, and behavioral health care. Member pediatricians diagnose most chronic diseases of children in our area. The division is concerned with issues regarding the advocacy and delivery of health care to children in community-based settings and institutions including office-based practice, well-baby nurseries, community health centers, schools, camps, and foster-care adoptive services. Our members work closely with specialists in other divisions to coordinate care for the sickest children in the community. Members work actively with schools, the Department of Children and Families, Birth-to-Three, and other community resources to plan and coordinate ancillary services for at-risk children.

Pediatricians in the division consult with local school systems to address public health and sports medicine issues. Our members serve on a variety of hospital committees, and they provide most of the newborn care at John Dempsey Hospital in Farmington, Hartford Hospital in Hartford, Manchester Memorial Hospital in Manchester, and Saint Francis Hospital in Hartford. Members are interviewed by public media including radio, television and newspapers on a wide variety of pediatric and public health-care issues of local and national interest including childhood obesity, school safety and bullying, vaccine advocacy, and changes to guidelines for cold and cough care for young children.

Division members provide instruction and supervision for student and resident continuity practices as well as the pediatric ambulatory rotation for third year students. In addition to providing rich and varied clinical experiences, members educate students and residents about external issues that influence child health care, such as delivery care models, co-management to address health care plans for children with chronic diseases, coding and other business practicalities in community pediatrics, and time and personal health management. We seek to identify innovative practice styles in health care delivery and opportunities to improve patient education and health outcomes.

Members engage in many collaborative programs within broader department- and state-based initiatives to provide better care for children. These include the Easy Breathing© Program, which has led to improved health practices and better outcomes for children with asthma; the Medical Home initiative, to help coordinate care for children with special health-care needs; and the creation of collaborative practice models/co-management guidelines to provide efficient and cost-effective care.

One of the primary goals of our division is the improvement of care coordination and communication between specialists and generalists. With that purpose in mind, we invite consultants to our monthly meetings to discuss clinical topics of joint interest and address barriers to information sharing. It is our goal to have pediatric care transitions become seamless between hospital and community.

The members of the division, in partnership with physicians from Connecticut Children's specialty divisions, are exploring the creation of a pediatric affordable care organization. This will increase opportunities to provide consistent high quality care to children across the region through the development and adoption of evidence-based care models and provide increased primary care and specialty access for children with chronic diseases and special care needs.

Members are actively involved in ongoing education through grand rounds and evening lecture series in pediatrics and child mental health, to promote topics of interest to the community physicians as well as nurse practitioners, physician assistants, and school nurses who care for children in the community setting.

The division sponsors a lectureship in honor of Christopher O’Connor, MD, that addresses topics of concern to community-based pediatrics.

**STAFF**

**Douglas MacGilpin, MD, co-Division Head**

**Larry Scherzer, MD, co-Division Head**

**Robert S. Adamenko, MD**
**Susan Adeyinka, MD**
**Supriya Atianand, MD**
**Meredith W. Barrows, MD**
**Amy H. Baumer, MD**
**Lucia C. Benzoni, MD**
**Thomas B. Binder, MD**
**David L. Brown, MD**
**Nancy B. Brown, MD**
**William Brownstein, MD**
*Carolyn Clark, MD
Paul Clarke, MD
*Della M. Corcoran, MD
J. Michael Curi, MD
Christopher DeSanto, MD
Sachin Dhingra, MD
*Leo J. DiStefano, MD
Andrea Dixon, MD
Robert Dudley, MD
*Allyson Duffy, MD
Kari Edelson, MD
Jeffrey M. Factor, MD
Bruce Freeman, MD
Traci Friedman, MD
*Cecille Freilich, MD -
*Thomas Fromson, MD
*Richard W. Geller, MD
Gregory S. Germain, MD
Mark Gilroy, MD
*Susan Glasser, MD
Marshall P. Grodofsky, MD
Elizabeth Herz, MD
Bryan Holland, MD
*Peter J. Jannuzzi, MD
*Brad Jubelirer, MD
*Anjum Khera, MD
Kimberly Kim, MD
*Natalie Komaiszko, MD
Lauren Kopyt, MD
*Gubbanna S. Kumar, MD
*Sydney Ladenheim, MD
*Christine Lamoureux, MD
*John H. Lavalette, MD
Susan Lelko, MD
*Deepa Limaye, MD
Foong-Yi Lin, MD
Jennifer Lovin, MD
Stephen J. Maddox, Jr., MD
Jessica Magda, MD
Linda Mathew, MD
Shafia Memon, MD
Louis M. Mendelson, MD
Debora Mihaely-Sobelman, MD
Arpana Mohnani, MD
*Margaret O'Neill, MD
James O'Connor, MD
Kathy Pae, MD
*Susan Owen Perks, MD
*Hemant K. Panchal, MD
Christine Patterson, MD
*Elizabeth T. Pericat, MD
*Ishrat Quadri, MD
Tricia Pinto, MD
Tina Roman, MD
Vivian Rubin, MD
Bhavna Sacheti-Singh, MD
Kweku G. Sam, MD
Julie Schiff, MD
*Jennifer Schwab, MD
*Candra L. Smith-Slatas, MD
*Kenneth N. Spiegelman, MD
*Prasad Srinivasan, MD
*Carrie S. Streim, MD
Nicole Taylor, MD
Persis Thomas, MD
*Robert R. Toscano, MD
Kerline A. Vassell, MD
Rachna Walia, MD
Ramindra Walia, MD
*Matthew Warren, MD
*Harry C. Weinerman, MD
*Allison Whitaker, MD
*Felicia M. Wilson, MD
Michael Yencho, MD
*Robert W. Zavoski, MD
Sophia Zervas-Grant, MD
*Barbara Ziogas, MD
The Division of Pediatric Critical Care is dedicated to the delivery of state-of-the-art child and family centered care for critically ill and injured children.

The division’s mission is accomplished by a collaborative group that champions a multidisciplinary approach to care, the incorporation of best available evidence into clinical practice, and acquisition of new knowledge through clinical research. Attention to patient safety, continuous performance improvement, and education of physicians, nurses, and other care team members is paramount.

Major awards and academic accomplishments among the division members include important contributions to several national societies and both internal and external collaborations:

Dr. Christopher Carroll continues many clinical and translational research activities and collaborations. He lectures frequently at international conferences about topics including asthma and other respiratory diseases, critical care, and new media. He continues in leadership roles in major medical organizations including deputy editor of multimedia for the journal Chest, vice chair of the Critical Care NetWork and member of the executive program committee of Chest, member of the board of trustees of the Chest Foundation, and chair of the social media committee of the Society of Critical Care Medicine. Dr. Carroll was awarded a grant from the Institute for Collaboration on Health, Intervention, and Policy (InCHIP) at the University of Connecticut to study how patients and clinicians are using social media to communicate and interact. In 2018, he was awarded the presidential citation from the Society of Critical Care Medicine and the Distinguished Chest Educator Award from Chest.

Dr. Adam Silverman continues to build local cultural awareness and support for global health care as the director of the Center for Global Health, which organizes the annual Global Healthcare Symposium and Global Health Film Festival. Over the last two years, he has lectured regionally, nationally, and internationally about global health-care topics. He has organized and led training missions in Haiti to improve the use of CPAP (continuous positive airway pressure) to treat respiratory failure in newborns and small children, taught advanced pediatric resuscitation skills, and led educational courses about pediatric critical care topics. In support of this work, he has received grant funding from the Chest Foundation to have teaching materials translated into French. Locally, he continues to support the Global Healthcare Pathway for pediatric residents, provides supervision for electives for pediatric residents at Connecticut Children’s Medical Center Departments of Pediatrics & Surgical Subspecialties.
Hôpital Bernard Mevs and St. Damien Pediatric Hospital (both in Port-au-Prince, Haiti), and organizes the activities of staff members who travel to developing countries to help improve the health care of children.

Dr. Heather Schlott continues as medical director of the hospital’s Extracorporeal Membrane Oxygenation (ECMO) program, in partnership with Pediatric Surgery and Neonatology physician colleagues, as well as nursing, respiratory therapy, and perfusion team members. This technology provides state-of-the-art heart and lung support for our most critically ill and injured patients. The program has grown and been extremely successful, with outcomes that exceed national benchmarks. In fact, Connecticut Children’s received a Silver Award (the highest award possible for our size program) for its excellent outcomes from the national Extracorporeal Life Support Organization. This year, she will oversee the incorporation of Registered Respiratory Therapists (RRTs) as part of a hybrid ECMO Specialist Team.

Dr. Schlott also led the development and implementation of our continuous renal replacement therapy (CRRT) program, which has grown with excellent clinical results. These capabilities are key components of modern PICU care and specifically crucial to the expansion of our Cardiac Surgery program.

Efforts that began in 2016 were continued as Dr. Schlott assumed multidisciplinary leadership responsibility for Connecticut Children’s participation in the Children’s Hospital Association “Improving Pediatric Sepsis Outcomes” Collaborative, which has goals of reducing both sepsis deaths and hospital-onset severe sepsis by 75 percent by 2020.

Dr. Kenneth Banasiak continues his lead role in clinical, educational, and performance improvement aspects of a multidisciplinary collaboration with Cardiology and Cardiac Surgery colleagues. He has implemented clinical pathways that standardize and streamline the care of post-operative patients, resulting in improved inter-service communications, patient safety, staff competency, and patient outcomes. He continues as assistant director of the ECMO program. He has initiated an entirely new comprehensive curriculum, “Critical Care Physiology,” focused primarily on the education of residents who intend to go on to careers in acute care subspecialties.

Dr. Daniel Fisher, in collaboration with other staff participants in the Simulation Center, has developed a series of interdisciplinary educational activities focusing on in-hospital resuscitation of patients in emergency situations. Using a high-fidelity simulation manikin, care team learners are presented with a patient in a life-threatening scenario and are called upon to resuscitate the patient. Sessions focus on medical decision-making, critical task completion, and interdisciplinary communication during high risk situations. Dr. Fisher also continues to chair the Medication Safety Management Committee, which evaluates the safety of the institution’s medications practices and works to decrease medical errors. In addition, he continues his participation in the refinement of the hospital’s comprehensive electronic medical record. All of these activities have huge impacts on the quality and safety of patient care.

Dr. Leonard Comeau continues his activities to improve the comfort and quality of care for our patients, both in the PICU and hospital-wide. He participates in care delivered by the Sedation Service, and also serves as the leader of the quality and safety oversight activities of the Sedation and Analgesia Committee. He serves as the chair of the hospital Clinical Ethics Committee, which addresses issues related to the appropriateness and decision-making regarding health care for some of our most complicated patients.

Dr. Allison Cowl serves as a member of the steering committee of the Pediatric NetWork for the American College of Chest Physicians. She continues her clinical research collaborations with the Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) international network, focusing on various aspects of the care of critically ill patients, all with the goal of improving the quality of life of patients both during their time in the PICU and long after discharge. These include leading a comprehensive multidisciplinary initiative to recognize and manage delirium, promote early mobilization of patients, and liberate patients as early as possible from mechanical ventilation support. She participates in clinical research protocols evaluating platelet transfusion practices in the pediatric intensive care unit (PICU), as well as the use of prone positioning and various modes of mechanical ventilation in the treatment of patients with severe acute respiratory failure. She serves as the lead for resident education in the PICU, including expansion of the Critical Care subtrack with multiple new rotations for pediatric residents who are pursuing careers in acute care pediatrics (with particular focus on Pediatric Critical Care Medicine). She has mentored house staff in the completion of clinical studies about the role of ECMO in the treatment of asthma, the utilization of two modes of non-invasive pressurized respiratory support devices for treatment of patients with bronchiolitis, and the utility and safety of ketorolac administration in infants under 6 months of age.

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Emergency Medicine division in resident and staff simulation education sessions to review treatment decisions and team communication during high-risk clinical scenarios.

Division head Dr. Aaron Zucker is the chairperson of the Peer Review Committee, which oversees the medical staff’s evaluations of individual physician's clinical performance and patient outcomes in pursuit of the best and safest care for our patients. In conjunction with external and intramural facilitators, he continues as the physician champion of a professional development program designed to improve medical staff members’ emotional intelligence, resilience, and engagement, all aimed at reducing physician burnout and positively affecting patient care.

**PUBLICATIONS**


**STAFF**

Aaron Zucker, MD, Division Head
Kenneth Banasiak, MD
Christopher Carroll, MD
Leonard Comeau, MD
Allison Cowl, MD
Daniel Fisher, MD
Rosanne Salonia, MD
Heather Schlott, MD
Adam Silverman, MD
Petronella Stoltz, APRN
The division’s mission is: 1) to provide comprehensive and compassionate diagnosis and management for children with neurodevelopmental and behavioral problems that range from normative deviations to rare disorders; 2) to teach health care professionals about these problems; 3) to add to existing knowledge by researching relevant questions in the field; and, 4) to offer advocacy, and to influence public policy.

The Division of Developmental and Rehabilitation Pediatrics is composed of a diverse faculty of Developmental-Behavioral Pediatricians (DBPeds), an Integrative Medicine (IM) Specialist, a Speech Language Pathologist/Autism Specialist, and an Advanced Practice Nurse (APRN), all of whom practice at a number of sites throughout the state.

New Staff
The division met its goal of adding another member in 2018. Susan Dellert, MD, a former UConn Pediatrics resident, joined the division in June. Our primary divisional growth goal was to develop a satellite presence in Fairfield County, and Dr. Dellert is assuming medical directorship of that program.

Jennifer Twachtman-Bassett, MS, CCC-SLP, CCRP, joined the division in October 2018 to serve as autism coordinator. Her role includes expanding the array of services offered, and helping to develop the capacity of the Fairfield County satellite. Keith Ellis, APRN, joined the division in November 2018. He will not only enhance access for families but also help to develop the role of an advanced practice provider in the division.

Division clinical services occur in a number of settings – outpatient, inpatient, and community-based (e.g., schools, CT Birth-to-Three system, and other agencies). We provide direct consultation, ongoing clinical care, and school-based program consultation.

The division’s flagship program is the Autism Spectrum Assessment Program (ASAP). Plans are underway for replication of the program in our new Fairfield County location. The current ASAP collaboration includes DBPeds and Speech-Language Pathology, as well as the rapidly growing ASAP Neurogenetics Program, which is under the leadership of Dr. Louisa Kalsner in Neurology. For parents, families and medical providers, this represents a direct line from the autism diagnosis to standard-of-care clinical and laboratory evaluation. It also provides the opportunity for patients to participate in our research collaborations.

Dr. Robert Keder presented four news spots for Fox News on topics including: media use, allowance, executive functioning, and bullying. Dr. Thyde Dumont-Mathieu wrote and presented a four-part educational series on autism for National Public Radio (NPR). Drs. Thyde Dumont-Mathieu and division head Ann Milanese presented a CT-AAP webinar on “How Birth-to-Three Can Be a Pediatrician’s Best Partner.”

Dr. Keder has established himself in two of the Connecticut Children’s primary care settings, as an embedded Developmental-Behavioral Pediatrician to serve the goal of enhancing collaboration and co-management with primary care providers, as well as improving access to care for our highest risk patients and families.

Dr. Mark Greenstein continues in his role of director of residency education in Developmental-Behavioral Pediatrics for medical students, graduate students, and residents in pediatrics. His responsibilities include both the UConn Farmington and Storrs campuses.

Dr. Sarah Schlegel, in collaboration with the Connecticut Children’s Care Coordination Center, has established a Developmental Transition Program. It is the first of its kind in the state, and it meets a unique and pressing need for comprehensive support for children with developmental needs as they approach adulthood. Dr. Schlegel continues to develop the School Consultation Program, which provides direct consultation for complex patients within their school districts over the entire state.

Dr. Paul Dworkin continues to be a nationally recognized expert consultant, invited speaker, and moderator for activities sponsored by the Maternal and Child Health Bureau, the Robert Wood Johnson Foundation, Doris Duke Charitable Foundation, Georgetown University National Center, the Children’s Hospital Foundation, and the American Medical Association’s Integrated Health Model Initiative on topics pertaining to strengthening systems of care to improve children’s health and outcomes.
This approach is exemplified by the Help Me Grow® initiative, which was originated in Connecticut and has been successfully replicated in 30 states.

The division continues to support post-graduate education in DBPeds in collaboration with the Behavioral Sleep Center (Dr. Lynelle Schneeberg, sleep psychologist), the Child Abuse Program (Dr. Nina Livingston), the Medical-Legal Partnership (Jay Sicklick, JD), the American School for the Deaf (Jeffrey Bravin), and the Creative Child Care Center at the UConn Health Center (Barbara Brush), along with Acute Rehabilitation (Dr. Milanese), Occupational Therapy (Jeanne Kagan, MA, OTR), and Speech/Language Pathology (Virginia Van Epps, MEd, CCC-SLP, CLC) services at Connecticut Children’s.

Goals for 2019

- Expand the statewide Developmental Transition Program
- Pursue academic presentations and division research activities
- Hire an additional physician to enhance the division’s Fairfield County capacity
- Develop the APRN role, add a psychologist and a care coordinator to develop alternative care models and enhance access to care
- Pursue an R21-NIH grant to study follow-through with the American College of Medical Genetics and Genomics (ACMG)’s recommended genetic consultation in our diverse population of patients who are diagnosed with an Autism Spectrum Disorder (ASD)
- Collaborate with partners in Neurology to pursue a grant from the Simons Foundation Autism Research Initiative (SFARI) to become a clinical site for SPARK (Simons Foundation Powering Autism Research for Knowledge). If funded, the division will serve as one of the main recruitment sites for this project

PUBLICATIONS


RESEARCH/GRANTS

1. Bridging the Gap: Early Intervention for Underserved Children Within the Medical Home. Connecticut Health Foundation. PI: Thyde Dumont-Mathieu, MD, MPH

2. Early Detection of Pervasion Developmental Disorders. PI: Dr. Fein at UConn. Thyde Dumont-Mathieu, MD, MPH, co-investigator

3. Connecting the Dots: An RCT Relating Standardized ASD Screening, Intervention Access, and Long-Term Outcomes. PI overall: Dr. Robins; PI at UConn: Dr. Fein; co-investigator: Thyde Dumont-Mathieu, MD, MPH


5. Multidisciplinary APGS initiative between Connecticut Children’s Medical Center, UConn Health Center, and UConn – Storrs, Psychology department. 71-185.

STAFF

Ann Milanese, MD, Division Head
Mark A. Greenstein, MD, Faculty Education Coordinator
Susan Dellert, MD
Thyde Dumont-Mathieu, MD, MPH
Paul H. Dworkin, MD
Robert D. Keder, MD
John Pelegano, MD
Sarah Schlegel, MD
Ana Maria Verissimo, MD

Keith Ellis, APRN
Jennifer Twachtman-Bassett, MS, CCC-SLP, CCRP
The Division of Digestive Diseases, Hepatology, and Nutrition is committed to cutting edge and innovative clinical care of infants, children and adolescents, pioneering clinical, translational, and basic research, and the education of the next generation of physicians.

In 2018, the division, small by the standards of other children's hospitals, was a leader on both the national and international stages. Our Center for Pediatric Inflammatory Bowel Disease (IBD), the largest program in the region between Boston and New York, currently provides care to over 800 children with Crohn's disease and ulcerative colitis. Pioneering research funded by the National Institutes of Health and the Crohn's and Colitis Foundation has begun to unravel some of the mysteries underlying the genesis of bowel inflammation and provide tools to risk stratify patients at diagnosis to personalize therapy. Connecticut Children’s is at the epicenter of pioneering research in pediatric inflammatory bowel disease. Dr. Jeffrey Hyams, division chief, became the initial holder of the Mandell Braunstein Family Endowed Chair in Pediatric Inflammatory Bowel Disease. Funds from the endowment are being used to coordinate the vast clinical and biological information of children with IBD cared for at Connecticut Children’s, facilitating clinical care and research.

Our Center for Pediatric Liver Care, directed by Dr. Karan Emerick, provides care to children with a large range of hepatic disorders ranging from chronic hepatitis B and C, metabolic liver disease, autoimmune disease, and acute and chronic liver failure. It provides pre- and post-transplant care to 40 children. Samantha Lee, APRN, coordinates the program, caring for children with non-alcoholic fatty liver disease (NAFLD) and working closely with other divisions in the hospital. Dr. Emerick serves as an attending physician on the hepatic transplant service at Yale New Haven Hospital six to eight times yearly.

Dr. Wael Sayej directs our eosinophilic esophagitis program along with Susan Goodine, RD. This clinical program has expanded greatly and now cares for almost 300 patients ranging in age from infancy to young adults. Clinical trials of new and emerging therapies are being carried out at Connecticut Children's under Dr. Sayej's leadership.

Our fecal transplantation program, previously headed by Dr. Zev Davidovics, is now directed by Drs. Peter Townsend and Jasmeet Mokha. Dr. Davidovics relocated to Israel in 2018. Dr. Townsend is also the divisional liaison to the inpatient service and works with the Hospitalist Program to improve communication and care of inpatients with gastrointestinal disorders.

Our Multi-Disciplinary Intestinal Rehabilitation Team (IRT) is the only one of its kind in the state. Co-directed by Drs. Mokha and Christine Rader, this group focuses on the care of children with intestinal failure of all causes. Phyllis Bebyn, RN, and Kate Samela, RD, are integral parts of this team, which also facilitates transition from hospital to home. Dr. Mokha is also collaborating with Dr. Erin Young, a pain geneticist at
UConn Health Center, exploring the mechanisms of functional gastrointestinal disorders in children.

Dr. Bella Zeisler is the primary pediatric gastroenterologist in the Aerodigestive Disease Program at Connecticut Children’s. This coordinated program of otolaryngologists, pulmonologists, gastroenterologists, and speech therapists cares for children with complex airway, pulmonary and gastrointestinal disorders.

Dr. Fran Mohr has been active as the Division Quality and Safety Officer as part of the GI Service Line Development. She has worked closely on standardizing the use of biologic therapy for children with IBD.

Our fellowship program transitioned from the successful leadership of Dr. Sayej to the team of Drs. Zeisler and Melissa Fernandes, who have assumed responsibility for not only the fellowship program but for pediatric residents and medical students as well. The great depth in our pediatric surgical and radiology programs as well as the great variety of clinical disorders and the intimate involvement of our faculty in education makes our fellowship program particularly attractive.

Victoria Grossi, DO, and Katherine Baldwin, MD, have each completed their initial year as faculty members and have contributed greatly to the depth of the division. In July 2018, Logan Jerger, MD, joined the faculty after completing his fellowship at the Massachusetts General Hospital.

Dr. Brad Jerson, our division’s pediatric psychologist, provides fully embedded psychological evaluation and intervention services. He has partnered with other institutional departments and regional community mental health agencies for development of psychosocial programming to address GI symptoms from an evidence-based perspective. Specifically, he has partnered with the Division of Pain and Palliative Medicine to implement “Comfort Ability,” a full-day skills-building workshop for adolescents and their parents for coping with chronic pain. Additionally, he has presented at national and regional conferences and workshops about the importance of conceptualizing GI conditions from a biopsychosocial perspective.

**PUBLICATIONS**


STAFF

Jeffrey Hyams, MD, Division Head
Katherine Baldwin, MD
Karan Emerick, MD
Melissa Fernandes, MD
Victoria Grossi, DO
Logan Jerger, MD
Brad Jerson, PhD
Franziska Mohr, MD
Jasmeet Mokha, MD
Wael Sayej, MD
Peter Townsend, MD
Bella Zeisler, MD

Fellows

Temara Hajjat, MBBS
Andrew Fondell, DO
Joelynn Dailey, DO
The Division of Emergency Medicine is committed to a continuous quality improvement process, and we have improved our efficiency, the safety of our health-care delivery system, and ultimately our patient satisfaction.

In 2018, the Emergency Department of Connecticut Children’s Medical Center treated 60,654 patients. The Division of Emergency Medicine continues to grow and is composed of 15 Pediatric Emergency Medicine board-certified/eligible fellowship-trained faculty, six per diem Pediatric Emergency Medicine- and Emergency Medicine-trained providers, one Pediatrician, six per diem Pediatricians, 14 Advanced Practitioners, and three per diem Advanced Practitioners.

The number of behavioral health/mental health patients continues to rise. They represent a challenge as they consume many staff resources to maintain their safety, and because of the lack of inpatient beds, they remain in the Emergency Department for prolonged periods of time. Dr. Steve Rogers, director of Emergency Mental Health Services, has been working on innovative ways to care for these patients. In recognition of his efforts, Connecticut Children’s is the recipient this year of the Hartford Business Journal’s Health Care Heroes Award for Advancement in Healthcare-Innovation for advances in care coordination, integrating mental health practice in the pediatric primary care setting and innovation in safety monitoring and interventions. Dedicated staff has been hired to manage this patient population, including behavioral health/mental health advanced practitioners, nurses, mental health social workers, and behavioral health techs. Dr. Rogers has been involved at the state and national levels shaping how mental health is viewed and treated.

The Emergency Department has received other recognitions for excellence. For the second year in a row, Connecticut Children’s Medical Center received the Women’s Choice Award for Best Children’s Hospital for Emergency Care.

Dr. Michael Soltis was promoted to associate professor of Pediatrics in recognition of his work with clinical forensics. He serves on the state’s Child Fatality panel and the Abusive Head Trauma working group. He also has taken on the role as medical director of the Transport program.

Education and research continue to be part of our mission. Faculty members teach and mentor pediatric residents, emergency medicine residents, family practice residents, medical students, dental students and advanced practitioner students. Dr. Kristin Welch has transitioned to Dr. Mariann Nocera the role of faculty education coordinator, which she shares with Dr. Lana Friedman. The Pediatric Emergency Medicine Fellowship is now in its 19th year. Dr. Matt Laurich is the fellowship director. The fellowship currently has a complement of six fellows, accepting two per year for the three-year program. An undergraduate research assistant program that was developed by Dr. Sharon Smith and is taught by our faculty supports the research productivity of our division. Dr. Smith teaches two honors level undergraduate courses at the University of Connecticut. She also serves as the division’s director of research and is the director of Pediatric Advanced Life Support (PALS) for the institution. Research projects covering topics such as violence prevention, mental health, simulation, point-of-care ultrasound, ultrasound-guided IV placement, lethal means restriction, nutrition, and asthma are ongoing. The division continues to be productive with many poster presentations at national conferences and publications in peer-reviewed journals.

Members of the Division of Emergency Medicine continue to be highly involved in leadership and committees at Connecticut Children’s. Dr. John Brancato, who is associate director of the division, continues to serve in many areas. He provided clinical guidance for the new One Call Center to take over all primary care referral and transport calls for the Emergency Department. Additionally, he is working to raise the bar for children in the western part of the state as the pediatric emergency medicine champion for Western Connecticut Health Network. Dr. Carla Pruden, who serves as medical director of Simulation, leads the division and the institution’s efforts in that area. Dr. Nocera has expertise and has supported her in this effort. They host bimonthly simulation sessions for the Emergency Medicine attendings, monthly sessions for the trauma team, monthly sessions for residents and fellows, and ad hoc sessions for the hospital using high fidelity manikins. Dr. Henry Chicaiza is spearheading the development of an emergency medicine point-of-care ultrasound program. This will involve the education and credentialing of the attending staff in bedside ultrasound, and he has taken the lead in developing the curriculum for the fellows. Drs. Eric Hoppa and Welch are active members of the clinical effectiveness committee and have led the production of many pathways that help create standard work and improve the quality of care. Dr. Andrew Heggland leads our continuing education program and our efforts in medical informatics.

The Trauma Program is verified as a Level I Pediatric Trauma Center by the American College of Surgeons, which recognizes the program’s dedication to providing optimal care for injured patients. Verified trauma centers must meet the essential criteria that ensure trauma care capability and institutional performance.
PUBLICATIONS


STAFF

ATTENDINGS

John Peng, MD, FAAP, FACEP, Division Head and Medical Director
John Brancato, MD, Associate Director
Henry Chicaiza, MD
Lana Friedman, MD
Andrew Heggland, MD
Eric Hoppa, MD
V. Matt Laurich, MD
Mariann Nocera, MD
Carla Pruden, MD
Steven Rogers, MD
Adam Silverman, MD
Sharon Smith, MD
Michael Soltis, MD
Jesse Sturm, MD
Kristin Welch, MD

PEDICATRICIAN

Christine Cornachio, MD

PER DIEM ATTENDINGS

Zoe Casey, MD
Karl Hellstrand, DO
Sandra Johnson, MD
Seth Lotterman, MD
Sylvia Nash, MD
James Parker, MD
James Wiley, MD

PER DIEM PEDIATRICIANS

Brenda Balch, MD
Meredith Barrows, MD
Jonah Mandell, MD
Charles Thompson, MD
Nancy Trout, MD

APRN’S & PA’s

Lauren Appel, APRN
Mandi Boisvert, APRN
Chelsea Byrd, PA-C
Rachel Caplan, APRN
Nicole Chaves, PA-C
Lauren Christofori, PA-C
Katelyn Claudomir, APRN
Carol Erickson, Lead APRN
Ann Gorjanc, PA-C
Jessica Haggett, APRN
Garry Lapidus, PA-C
Sarah Orlando, PA-C
Christopher Scheinberg, APRN
Lisa Tryon, PA-C
Alexis Veith, PA-C

PER DIEM APRNs / PA’s

Keri Curtis, PA-C
Kate Pesce, APRN
Alissa Zalewski, APRN

PEDIATRIC EMERGENCY MEDICINE FELLOWS

Tasha Desai, DO / PGY6
Jacob Greenberg, MD / PGY5
Noah Jablow, MD / PGY6
Ruchika Jones, MD / PGY4
Prina Patel, MD / PGY5
Rahul Shah, MD / PGY4
This year has been highlighted by extensive growth in the Division of Pediatric Endocrinology and Diabetes, including the addition of three new faculty members. The division has numerous state-of-the-art subspecialty centers with well-established national and international presence and notably was ranked 37th in the nation by U.S. News & World Report this year. Clinical, translational, and basic science research programs have also expanded. The overriding mission of the division continues to be focused on improving the health and quality of life of patients through our clinical expertise, compassionate care, and research investigations toward the development of new treatments.

The division underwent leadership changes two years ago with the recruitment of Dr. Emily Germain-Lee as chief of Endocrinology and Diabetes at Connecticut Children’s Medical Center and tenured professor of Pediatrics at the University of Connecticut School of Medicine. Prior to her move at the end of 2016, Dr. Germain-Lee was a tenured professor of Pediatrics at the Johns Hopkins University School of Medicine and research scientist/professor at Kennedy Krieger Institute in Baltimore. Dr. Rebecca Riba-Wolan, assistant professor in the division over the past six years, smoothly took over the role of clinical director last year and also took on the role of fellowship director (from assistant director) in late 2017; Dr. Christine Trapp (assistant professor) moved into the role of the assistant fellowship director in late 2018. The Endocrinology Fellowship is proud to have three fellows in our program, all of whom are active clinically and in research. Dr. Cem Demirci, who holds the Chase Family Chair of Juvenile Diabetes, continues as director of the very large and successful Diabetes Program, which he has overseen for the past eight years.

The division is proud to have recruited three new faculty in 2018 from around the country: Dr. Bethany Peri, who was an assistant professor at the University of Colorado, as well as medical director of Patient Engagement Technologies at Children’s Hospital Colorado; Dr. Angela Verardo, who recently completed her pediatric endocrinology fellowship at the Johns Hopkins University School of Medicine; and Dr. Nordie Bilbao, who came from the University of South Alabama School of Medicine where she was an assistant professor. The division is very fortunate that Dr. Susan Ratzan, one of the former division chiefs, is still active on a part-time basis, and our division now has 12 faculty devoted to patient care and the education of medical students, residents, and fellows. All of the faculty members have given local, national, and/or international presentations in both the educational and research arenas. The division has created and expanded numerous centers focused on subspecialties within Pediatric Endocrinology. A major focus, both clinically and in the laboratory, is rare bone disorders. This effort is being carried out in the Center for Rare Bone Disorders established by Dr. Germain-Lee. Under this overall umbrella center are two translational clinical and research centers dedicated to the treatment and investigation of specific disorders: the Albright Center, which is focused on Albright hereditary osteodystrophy (AHO), and the Osteogenesis Imperfecta (OI) Center, which is focused on brittle bone disease. Another major goal of the Center for Rare Bone Disorders is to elucidate the etiologies of the 20 percent of rare bone disorders for which the cause is not known.

The Albright Center, directed by Dr. Germain-Lee, is the first and only center dedicated to Albright hereditary osteodystrophy, which includes pseudohypoparathyroidism type 1A and pseudopseudohypoparathyroidism. Dr. Germain-Lee has evaluated the largest population of patients with AHO worldwide and is one of the co-authors of the first international consensus statement published this year for the diagnosis and management of this condition. Patients travel from throughout the USA and from other countries to the Albright Center. She also has developed a translational research program focused on her patients as well as her knockout mouse model for AHO, which she has shown recapitulates the features of this disorder and can therefore be used to develop new treatments. The OI Center, which is co-directed by Drs. Germain-Lee and Nancy Dunbar (assistant professor) is recognized officially by the OI Foundation and is already a premier site in New England and the mid-Atlantic for patients with OI to be evaluated and treated. This center provides clinical care to OI patients, as well as quarterly education and support sessions, and is in the process of expanding its clinical trial capabilities. Dr. Verardo started work in this center in November. Both Drs. Dunbar and Germain-Lee were invited to the OI Foundation National conference for patients and families this year at which Connecticut Children’s received widespread attention. In addition, they were again invited to the OI Foundation Scientific Meeting for which approximately 50 investigators from around the world are asked to participate every year. Of note is that Dr. Germain-Lee has an established translational research program that includes both clinical research studies as well as basic science laboratory investigations utilizing mouse models of OI, and she is working toward developing new treatments.

Dr. Dunbar continues to direct the Metabolic Bone Clinic at Connecticut Children’s and Shriners Hospital in Springfield, MA, which focuses on all forms of bone disorders as well as...
disorders of mineral metabolism. Dr. Dunbar has developed a focus on bone loss in children with various physical impairments. With the state-of-the-art DXA machine and infusion capabilities, both Drs. Dunbar and Germain-Lee are able to provide cutting-edge clinical care to patients with all types of bone disorders.

Dr. Germain-Lee has numerous NIH and private grants to support her research on bone disease and also other rare diseases. As an adjunct professor at Johns Hopkins and adjunct research scientist at Kennedy Krieger Institute, she is continuing to conduct collaborative grants and projects with physician-scientists working on rare bone disorders and Sturge-Weber Syndrome at these institutions. She has been an active advocate for rare diseases and presented to the Connecticut General Assembly for the state’s Task Force to Study Rare Diseases, as well as advocated at Rare Disease Day, with both presentations being held at the State Legislative Office. Dr. Germain-Lee is on the Scientific Advisory Panel for the Rare Bone Disease Alliance comprising international experts who help to expand education, research, and patient advocacy, and she serves as the vice president of the Human Growth Foundation, which advocates for children with growth disorders throughout the world.

A key grant was awarded to Dr. Karen Rubin, a professor in the division and Chief Clinical Transformation Officer of Connecticut Children’s. This grant, entitled “Connecticut Newborn Diagnosis and Treatment Network” supports the creation of a statewide Newborn Screening Network in partnership with the Department of Public Health to coordinate patient care and therapeutic oversight from infancy through age 21 for patients diagnosed by this screening. This transformational model provides the highest level of care and optimal health outcomes for a population cohort comprising over 64 genetic conditions under the care of geneticists/genetic counselors, endocrinologists, hemato-ologists, and immunologists. Several members of our division have played an integral role in this effort including Drs. Verardo, Trapp, and Riba-Wolman, and Dr. Verardo will be continuing as the main lead for the endocrinology component of this effort.

At Connecticut Children’s, approximately 1,200 children and adolescents with diabetes receive multidisciplinary clinical care. Dr. Demirci is medical director of the Diabetes Program, as well as the Chase Family Chair in Juvenile Diabetes and assistant professor in the division. His focus is on Type 1 Diabetes Mellitus (T1DM) care and management. In addition to T1DM, he specializes in diabetic disorders caused by single gene defects and cystic fibrosis-related diabetes. Twelve pediatric endocrinologists in the division are involved in providing care for all forms of diabetes including Type 1 and Type 2 DM, monogenic diabetes, maturity onset diabetes of the young (MODY), permanent neonatal diabetes, cystic fibrosis-related diabetes, and steroid-induced diabetes. The Division of Endocrinology and Diabetes is accredited by the American Association of Diabetes Educators (AADE) and has a multidisciplinary team including advanced practice registered nurses, physician assistants, registered dietitians, certified pediatric diabetes educators, and pediatric social workers. Dr. Riba-Wolman is the chair of the Diabetes Quality Committee for the hospital to ensure safe inpatient care.

The diabetes program is also actively involved in research. Dr. Demirci is collaborating with Dr. Derya Unutmaz, a researcher at the Jackson Laboratory in Farmington, CT, to investigate the intestinal microbiome and the link between food, microbes, and diabetes with the ultimate goal of finding which genes are turned on and off as a result of the interaction between the microbiome and the immune system. Dr. Germain-Lee is working on basic science research in diabetes. She is currently collaborating with the Jackson Laboratory/UConn Health investigator, Dr. Se-Jin Lee, on a research program aimed at discovering new strategies to improve the body’s ability to control blood sugar levels. The goals of this project, which is being partly supported by a grant from the NIH, are to enhance the ability of the pancreas to produce insulin as well as to improve the responsiveness of peripheral tissues to insulin. The focus of this project is to understand the role of secreted proteins belonging to the transforming growth
factor-ß superfamily of signaling molecules in regulating metabolism.

Dr. Dunbar is involved in global health initiatives. She has been crucial in developing a Type 1 diabetes clinic in Haiti, working with local pediatric staff at Hôpital Sacré Coeur in Milot along with Comalita Elliott, a nurse/diabetes educator in our division. Dr. Dunbar travels to Haiti each year to expand this program. Ongoing fundraising led by Dr. Dunbar supports 100 percent of the needs of the program, and she has made this an important aspect of her research efforts in order to provide a model for implementation of this initiative in other communities in need.

Dr. Sunitha Sura, assistant professor, has headed up the Lipid Disorders Clinic, which has been fully running with nutritionist capabilities since September 2018. This is one of the few lipid clinics in the country that are within a pediatric endocrinology and diabetes division and which are focused solely on the management of childhood lipid disorders. Dr. Sura's specialized clinic focuses on genetic disorders of lipids as well as more common lipid abnormalities. She has expertise in appropriate treatment management, whether through medications or dietary modifications. In addition, Drs. Sura and Germain-Lee are active in a company-sponsored clinical trial of a novel lipid-lowering agent in children for heterozygous familial hypercholesterolemia. Dr. Sura's background in basic science laboratory research in lipid metabolism provides a strong foundation for her current clinical and translational research.

The Turner Syndrome Clinic is headed by Dr. Rubin, an international expert in the field who also was involved in global consensus statements for Turner syndrome. This clinic has expanded greatly this year. Also, since 2017, long-term efforts headed by Dr. Rubin have been focused on developing an integrated learning system and referral management process that addresses the issues of limited access to subspecialty care. As part of this initiative, e-consults are carried out in our division by Drs. Rubin, Germain-Lee, and Priya Phulwani. Through this program, our physicians provide formal endocrine advice to local pediatricians. This effort will soon expand to other states. Dr. Riba-Wolman is the endocrinologist for the REACH for the STARS Cancer Survivorship Program, a multidisciplinary clinic in the Hematology-Oncology Division for long-term survivors of childhood cancer. She also is involved in the Neuro-Oncology Program, a multidisciplinary clinic involving Oncology, Neurosurgery, and Endocrinology. She has embarked on clinical research in areas involving the endocrine disorders observed in children with cancer. Notably, she is a member of the New England Childhood Cancer Consortium and is involved in many complex cases regionally.

The Thyroid Center, a multidisciplinary program for treating thyroid nodules and thyroid cancer which involves Endocrinology, Pediatric Surgery, Pathology, Radiology, and Nuclear Medicine, is headed up by Dr. Riba-Wolman and Connecticut Children's Surgeon-in-Chief Dr. Christine Finck. Dr. Nordie Bilbao is involved with Drs. Riba-Wolman and Finck in building this center even further.

The Gender Program, run by Dr. Phulwani, provides unique care to children and adolescents with gender dysphoria and also provides tremendous support to families. In November 2018, she presented her work on transgender youth at the World Professional Association for Transgender Health, and her research was accepted for presentation in 2019 at the conference of the European Association for Transgender Health to be held in Rome. Dr. Phulwani participates with members of the Medical Genetics, Urology, and Psychology divisions in a multidisciplinary clinic for Disorders of Sexual Development in which her expertise is greatly valued. She has been a major contributor as a speaker for “Project Echo for Complex Integrated Pediatrics" to expand pediatric endocrinology knowledge in order for e-consult providers to manage specific conditions.

Dr. Phulwani serves as the endocrinologist in the multidisciplinary Bariatric and Weight Management Clinic overseen by members of the Pediatric Surgery team. In addition, the Endocrinology Division’s Dr. Trapp has expertise in caring for children with co-morbidities secondary to obesity as well as those with early onset obesity, and her research interests lie in this area, including the effects of maternal stress on infant weight gain.

Finally, Dr. David Weinstein, a world-renowned clinical and scientific expert in glycosgen storage disorders (GSD) continues as head of the Glycogen Storage Disease Program. As a pediatric endocrinologist by training, his expertise is a highly valued addition to our division. He has an exciting gene therapy trial that was launched this year. (Please refer to the separate section on Dr. Weinstein's Glycogen Storage Disease Program.)

NIH Grants


U54AR068069 – Brittle Bone Disorders Consortium of the Rare Disease Clinical Research Network. 8/6/14 - 7/31/19. Co-investigator (at Kennedy Krieger site): Emily L. Germain-Lee, MD.

State Grants
Connecticut Department of Public Health (DPH) – Connecticut Newborn Diagnosis and Treatment Network. 7/1/18 - 6/30/21. PI: Karen Rubin, MD.

HRSA sub-contract with CHCI/Weitzman Institute – Project Echo for Complex Integrated Pediatrics for Primary Care Providers for Safety-net Youth and Provision of e-Consults. PI at site: Karen Rubin, MD.

National/International Recognition (highlights)

Emily Germain-Lee, MD

Priya Phulwani, MD
National/international speaker for transgender health.

Rebecca Riba-Wolman, MD
1) Member of New England Childhood Cancer Consortium; 2) Member of Pediatric Endocrine Society Program Committee.

Karen Rubin, MD
1) Chair, Pediatric Endocrine Society (PES) Leadership Advantage Program; 2) Member of PES Practice Management Committee; 3) Member of PES Quality Improvement Program; 4) Member of PES Special Interest Group for Turner syndrome; 5) Member of Physician Advisory Board, Turner Syndrome Foundation; 6) Member, Type 1 Diabetes Outcomes Steering Committee (joint initiative by Type 1 Diabetes Exchange and JDRF).

Christine Trapp, MD
Member of Pediatric Endocrine Society Obesity Committee.

David Weinstein, MD
(Please refer to section on Glycogen Storage Disease Program.)

PUBLICATIONS


STAFF

Emily Germain-Lee, MD, Division Head
Rebecca Riba-Wolman, MD, Clinical Director & Fellowship Director

Christine Trapp, MD, Assistant Fellowship Director
Cem Demirci, MD, Director of Diabetes Program
Nordie Bilbao, MD
Nancy Dunbar, MD
Bethany Peri, MD
Priya Phulwani, MD
Susan Ratzan, MD
Karen Rubin, MD
Sunitha Sura, MD
Angela Verardo, MD
David Weinstein, MD
(see Glycogen Storage Disease Program)

Karen Bucci, PNP (retired in 2018)
Carey Driscoll, PNP
Maureen Fearon, PNP
Nancy Paulhus-Orkin, PNP (retired in 2018)
Elena Schneider, PA

Fellows
Massiel Sarmiento Mojica, MD; 3rd year
Whei Ying Lim, MD; 2nd year
Komalben Parmar, MD; 1st year
The Division of Excellence in Patient Safety & Clinical Quality strives to support the mission of Connecticut Children's to partner with patients, families and communities using evidence-based models resulting in zero-harm, highest quality, and world-class outcomes in a culture based on continual improvement and compassionate care through the integration of patient safety and quality across the institution. The division's goal is to drive our culture of safety to the standard of zero-harm, to provide the highest quality care, to teach methods of improvement, and to use research to inform our programmatic efforts and innovations. In 2018, the division underwent changes in leadership, with Dr. Heather Tory assuming the role of Interim Division Director/Interim Executive, Patient Safety and Quality.

In the past year, our faculty was recognized with presentations at national quality and safety conferences. Among the highlights was recognition of Dr. Brendan Campbell and his work with the American College of Surgeons and the National Surgical Quality Improvement Program. His goal is to bring this work to additional surgical subspecialties and conditions. We remain heavily involved in the improvement work of Solutions for Patient Safety (SPS), participating in 10 workgroups, including a pilot group led by Dr. Sherene Mason that aims to reduce the impact of nephrotoxic acute kidney injury. Dr. Mason has presented her work at SPS and the Illuminations Patient Safety and Quality Conference, as well as at national Nephrology and Rheumatology scientific meetings.

The clinical pathways program continued to grow exponentially under the direction of Dr. Ilana Waynik, and it has developed a greater focus on population health. This year there has been an increased concentration on developing ambulatory care pathways in collaboration with the CCSG Clinical Quality Committee, co-chaired by Drs. Tory and Christopher Grindle. Dr. Waynik is leading our involvement in an American Academy of Pediatrics Value in Inpatient Pediatrics Network project related to care of inpatients with bronchiolitis. Her publication related to the clinical pathway for care of febrile infants was accepted for publication in Pediatrics.

The Simulation Program has continued to expand, led by Dr. Carla Pruden and supported by Dr. Mariann Nocera. The breadth and impact of the program have been enhanced to provide simulation sessions for multidisciplinary teams across our care network, covering a range of clinical topics as well as addressing issues related to communication, disclosure and debriefing. The division has supported many efforts to impact the quality of care more broadly across the network, including Dr. David Sink's work in coordinating quality improvement
efforts across the neonatal intensive care units (NICUs). His work in reducing alarm fatigue in two of the NICUs was published this year in the American Journal of Perinatology.

Dr. Jennifer Girotto has continued to champion the Antimicrobial Stewardship Program, which has produced dramatic effects on prescribing practices throughout the organization.

The division continues to support faculty development through a nationally renowned program in quality improvement methodology and leadership. In 2018, Dr. Eric Hoppa completed the program with his project “Improving Time to Administration of Systemic Corticosteroids to Patients with Moderate to Severe Asthma Exacerbations in the Pediatric ED,” leading to reductions in length of stay for this patient population. Drs. Emilee Lewis, Daniel Fisher, Franziska Mohr and Sink have undertaken improvement work as part of national training programs.

The division remains committed to promoting education in quality and patient safety principles and methodology, including teaching of residents, fellows and peers by a number of faculty members. Drs. Natalie Bezler and Tory have led ongoing enhancements in the educational curriculum for pediatric residents, now including the morbidity and mortality curriculum. Dr. Bezler also has worked to implement a robust morbidity and mortality program in the Division of Hematology—Oncology. This year, a new continual improvement educational curriculum was developed specifically for physicians and care providers with Drs. Alex Golden and Tory serving as program sponsors.

In the next year, we look forward to continuing to expand the reach and impact of the division in driving toward zero-harm, safe and high quality care, utilizing scientific methodology, fostering innovation, and promoting inquiry and teaching.

**PUBLICATIONS**


**STAFF**

Dr. Heather Tory, MD, MPH, Interim Division Head

Dr. Natalie Bezler, MD
Dr. Brendan Campbell, MD, MPH
Dr. Daniel Fisher, MD
Dr. Jennifer Girotto, PharmD
Dr. Alex Golden, MD, MMM
Dr. Christopher Grindle, MD
Dr. Eric Hoppa, MD
Dr. Emilee Lewis, MD
Dr. Sherene Mason, MD, MBA
Dr. Franziska Mohr, MD, MRCPCCH
Dr. Mariann Nocera, MD
Dr. Carla Pruden, MD, MPH
Dr. David Sink, MD
Dr. Ilana Waynik, MD
The Division of General Pediatrics is committed to fostering the health and well-being of children, families and communities.

To realize this mission, we provide exceptional clinical care in partnership with families, teach evidence-based clinical pediatrics to the next generation of pediatric health-care providers, and pursue original research and vigorous advocacy around issues important to children, families and the public. Our activities place special emphasis on caring for children with special health-care needs, including disadvantaged children, children growing up in low-income families, and children with complex and chronic medical conditions.

The Division of General Pediatrics continues to provide the majority of pediatric primary care to Hartford’s children through the ambulatory and primary care clinics at Community Health Center (CHC), Inc., at Connecticut Children’s, Connecticut Children’s Primary Care East Hartford/West Hartford, and the Burgdorf/Bank of America Health Center. Members of the division provide ambulatory care to infants, children, and adolescents, and inpatient care in the newborn nurseries at Hartford Hospital and John Dempsey Hospital/University of Connecticut Health Center, and at Connecticut Children’s Medical Center for children with lead poisoning. Our ambulatory services include health supervision, behavioral health care, chronic disease management, and urgent care using a medical home model. Adolescent Medicine subspecialty primary care and consultative services also are embedded on site at CHC at Connecticut Children’s and Primary Care East Hartford/West Hartford. The division houses innovative, community-wide clinical programs such as the Hartford Regional Lead Poisoning Treatment Center and the Reach Out and Read literacy program. General Pediatrics division faculty have gained regional and national prominence for clinical research, education, and program development in the fields of lead poisoning and prevention, culturally effective health care, emergent literacy promotion, and the development of medical home-based systems of care for children and youth with special health-care needs.

This year the division welcomed three talented new faculty members. Drs. Caroline Amin, Shannon Hogan, and Caleb Wasser joined the division as general academic pediatricians. All three are former Connecticut Children’s pediatric residents.

The partnership between Connecticut Children’s and Community Health Center, Inc., has continued to evolve, with faculty members Drs. Alyssa Bennett, Jennifer Haile, and General Pediatrics division chief Catherine Wiley serving as lead faculty in year two of Project ECHO: Complex Integrated Pediatrics. This collaboration between the Weitzman Institute, with offices in Connecticut and Colorado, and Connecticut Children’s provides video-based conferencing on complex pediatric topics, emphasizing integration, collaboration and shared learning between medical, behavioral and specialist providers.

Faculty members in the division play a central role in education in the University of Connecticut system by providing the majority of pediatric primary care and newborn nursery educational experiences for medical students and pediatric residents in the region. Rotating learners from UConn and other institutions include family practice residents, dental residents, psychiatry residents, child psychiatry fellows, and students from nurse practitioner, physician assistant and medical assistant programs. Division members serve on a wide variety of hospital, university and state committees. Membership on national committees includes the National Center for Culture Competence Advisory Group (Dr. Alberto Cohen-Abbo), the Society for Pediatric Dermatology Education Committee (Dr. Keri Wallace), and the Gold Humanism Society (Dr. Paula Lucuara-Revelo). Research interests in the division include emergent literacy, cultural competence, immunization, obesity, and screening in primary care. Division members collaborate in a wide variety of projects, including the Asthma Center’s Easy Breathing© program, co-management protocols with Connecticut Children’s pediatric subspecialists, and validation of the Childhood Trauma Screen.
Dr. Patricia Garcia continues her work with the REACH (Resident Education in Advocacy and Community Health) pathway and community/advocacy education for all residents, working in collaboration with Connecticut Children's Office for Community Child Health, and a host of community agencies. This year Dr. Garcia was named director of the Healthy Homes program and was appointed as an assistant residency program director. Dr. Wiley continues her advocacy work in the area of emergent literacy and is medical director of Reach Out and Read Connecticut. She also serves as co-chair of the Department of Public Health State Health Improvement Project (Healthy Connecticut 2020) Immunization Committee. Dr. Grael O'Brien continues as site director for CORNET (Continuity Clinic Research Network) of the Academic Pediatric Association and has been active on the School of Medicine Curriculum Reform Committee. Drs. Melissa Held and Patricia Joyce continue to transform the highly regarded Ambulatory Pediatrics Clerkship, which has successfully transitioned to the new MDelta curriculum.

Drs. Haile and Garcia received a continuing grant from the Connecticut Department of Public Health for the Hartford Regional Lead Poisoning Treatment Center. Dr. Nancy Trout and Stacy Chandna, MS, CIP, continue their early childhood obesity prevention work, “Start Childhood Off Right,” funded by the Kohl’s Cares foundation, and are also developing a practice-based quality improvement intervention supported by the Child Health and Development Institute. In partnership with Cincinnati Children’s and the Reach Out and Read National Center, Dr. Wiley initiated a study, “Rx for Success: A Randomized Controlled Trial of Technology-Based Dialogic Reading Training Incorporated into Reach Out and Read,” funded by the Grossman Family Foundation and the Carol Ann and Ralph V. Haile, Jr./U.S. Bank Foundation. In partnership with the Village for Families and Children, Drs. Wiley, Karen Rubin (Office of Innovation), and Larry Scherzer continue their work on a three-year grant from United Health Foundation, “Two Generation Pediatrics: Integrating Intergenerational Family Services into Primary Care,” which supports interdisciplinary primary-behavioral health care and care coordination at the East Hartford and West Hartford sites.

**PUBLICATIONS**


**STAFF**

Catherine Wiley, MD, Division Head
Anton Alerte, MD
Caroline Amin, MD
Sonia Chaudhry, MD
Alberto Cohen-Abbo, MD
Glenn Flores, MD
Patricia Garcia, MD, MPH
Jennifer Haile, MD
Shannon Hogan, DO
Patricia Joyce, MD
Jaye Ladinsky, MD
Paula Lucuara Revelo, MD
Douglas MacGilpin, MD
Margaret McLaren, MD, MBChir
Lisa Menillo, MD
Amira Mohamed-Ahmed, MD
Jody Navitsky, MD (through July 2018)
Grael O’Brien, MD, MPH
Aruna Ramanan, MD
Laurie Scheiner, MD
Larry Scherzer, MD
Jody Terranova, DO
Latesha Dawson Thomas, MD, CLC
Nancy Trout, MD, MPH
Keri Wallace, MD
Caleb Wasser, DO
Lisa Backus, PhD
Amy Signore, PhD

Darlene Abbate, APRN
Julia Christofori, APRN
Keith Ellis, APRN
Christine Grem, APRN
Kimberly Griffith, PA-C
Kara Haladyna, APRN
Monica Joyce-Montaude, APRN
Kathleen Laurie Kelliher, PA-C
Dianne Powers, APRN
Abby Theriaque, APRN
The mission of the Glycogen Storage Disease Program is to pursue research while providing the best evidence-based care for children and adults with the disease.

Clinical Care
Due to the rarity of the glycogen storage disease (GSD) and the expertise of the team, patients travel from around the world for clinical care. Patients followed by the program travel to Connecticut from 49 states and 49 countries. The program presently follows over 600 patients with GSD.

Current Lab Research
Under the direction of Youngmok Lee, PhD, laboratory research is currently being conducted in the laboratory facilities at the University of Connecticut Cell and Genome Sciences building. The team was forced to expand this year due to the volume of basic science studies, and Junho Cho, PhD, and Lane Wilson, PhD, have joined the program. Since relocating to Connecticut in 2017, mouse models for GSD type VI and IX have been created. A tissue line which makes human GSD Ib neutrophils (“the artificial bone marrow”) was also created by the research team. Present laboratory research includes the following:

- Research development to improve the efficacy of AAV-mediated gene therapy in GSD-Ia mouse model
- Development of kidney-directed gene therapy on GSD-Ia mouse
- Artificial bone marrow generation for GSD-Ib neutrophil research
- Hematopoietic stem cell transplantation for GSD-Ib mouse model
- Generation and characterization of GSD-VI mouse model
- Characterization of GSD-IX mice (PHKB knockout mice)
- Synergistic heterozygosity research evaluating carriers for multiple types of GSD
- Whole exome and genome sequencing of untyped GSD

Current Clinical Research
After 20 years of research, the first trial of gene therapy for glycogen storage disease type Ia began with the Connecticut Children’s/UConn team as the lead site. In July 2018, the first GSD-Ia patient in the world was treated with gene therapy at the University of Connecticut Health Center, and the low dose arm of this safety and dosing study (Phase I/II) was completed in September 2018. Program director Dr. Weinstein is the principal investigator for this international study. Other clinical research studies are the following:

- United States representative in the International Study for GSD
- Natural history study assessing impact of treatments on GSD
- Biorepository for GSD samples
- Characterization of untyped forms of GSD
- Working with several companies on new treatments for GSD

**COLLABORATION**

**International Collaborations in 2018**
- Dr. Weinstein and the GSD team actively collaborate with other scientists and clinical personnel around the world. In 2018, the team hosted doctors from Argentina, Brazil, Canada, Faroe Islands, Germany, Israel, Italy, Mexico, and South Korea.
- The GSD Program has active collaborations with doctors, nurses, metabolic dietitians, and researchers around the world including Canada, United Kingdom, Faroe Islands, France, Spain, Mexico, the Netherlands, Germany, Poland, Israel, China, South Korea, Argentina, and Brazil.
- In 2018, members of the GSD team presented at professional conferences or invited lectures in Germany, England, Greece, Spain, South Korea and Sweden.

**Domestic Collaborations**
- The GSD team also is active in domestic collaborations. The GSD program helps to staff Camp Cornstarch Kids (Texas), a camp experience dedicated to children with the metabolic disorder.
- The GSD team presented nationally throughout the country.
- A dietitian from Virginia and a nursing student from Ohio State shadowed the Glycogen Storage Disease program.
- College students from Trinity, UConn, Wesleyan, and Dartmouth did research internships with the program.

**PUBLICATIONS**


**STAFF**

David Weinstein, MD, MMSc, Program Director
Junho Cho, PhD, Research Scientist
Monika Dambksa, MD, Clinical Research Coordinator
Ana Estrella, MD, Laboratory Manager
Youngmok Lee, PhD, Basic Science Coordinator; Laboratory Research
Lane Wilson, PhD, Research Post-Doctoral Fellow

Mihaela Artemie, Clinical Laboratory Technician
Amber Barry, RN, BSN, Inpatient Nurse
Gail Butler, RN, BSN, Inpatient Nurse
Kathy Dahlberg, MA, Research Advocate and Research Coordinator
Nitaben Desai, Clinical Laboratory Technician
Iris Ferrecchia, RN, CHC, Outpatient Nurse
Emma Labrador, RN, BSN, CCRP, Inpatient Nurse
Traci Resler, MS, Program Coordinator
Kathy Ross, RD, LDN, Metabolic Dietician
Ilan Small, Research Student
Elizabeth Swietek, Clinical Laboratory Technician
Corbinian Wanner, BS, Research Intern
The members of the Division of Gynecology at Connecticut Children's Medical Center continue to provide state-of-the-art pediatric and adolescent gynecology consultative services in our four offices, the Connecticut Children's operating rooms, and the Connecticut Children's emergency room, and in-patient settings.

The clinical services provided include specialty care in all areas of medical and surgical gynecologic care for children and adolescents. These include reproductive health issues, vulvar and vaginal infections in children and adolescents, management of abnormal uterine bleeding and pelvic pain, adolescent endometriosis, congenital abnormalities of the reproductive tract, ovarian cysts and masses, and adolescent hormonal and contraceptive issues. Our team of gynecologists from the Gynecology and Obstetrics Division of Women's Health Connecticut provides 24/7 coverage of the Connecticut Children's Medical Center's Emergency Room, operating room, and inpatient floors.

Our surgical services have continued to include da Vinci robotically assisted minimally invasive gynecologic procedures at Connecticut Children's for selected patients. Division director, Dr. Frederick Rau continues to perform robotically assisted laparoscopic procedures for reproductive tract anomalies.

Office evaluations of pediatric and adolescent patients are done at the Gynecology and Obstetrics Division of Physicians of Women’s Health by Dr. Rau, and Drs. Emily Rosenbush, Kerrie Henry, Catherine Graziani, Kelley Sturrock, Erin Pickett, Marlaine Miller, Elizabeth Purcell, Ellen Lamb, and Ashley Young at locations in Hartford, Farmington, Glastonbury and Rocky Hill. Our extensive range of pediatric and adolescent-friendly gynecologists has improved the ability of community physicians to refer families for age-appropriate gynecologic care.

Our physicians are members of the North American Society for Pediatric and Adolescent Gynecology, an international organization dedicated to the gynecologic care of children and teenagers.

At the 2018 American Association of Gynecologic Laparoscopists meeting in Las Vegas, NV, Dr. Rau was awarded Best Video in the Category of Robotic Technology for “Robotic Xi Excision of an Accessory and Cavitated Uterine Mass: An Unusual Cause of Chronic Pelvic Pain in Adolescents.”

Our physicians collaborate at Connecticut Children's Medical Center with the University of Connecticut School of Medicine and Pediatrics residents and the University of Connecticut School of Medicine and Dartmouth Medical School medical students for inpatient, emergency room, and operating room patient care.

Our physicians emphasize a supportive and minimally intrusive strategy while seeing children, adolescents, and families.

For 2019, the division will maintain and improve our patient’s access to superior specialty care in pediatric and adolescent gynecology to promote reproductive health and wellness for our community's children and teenagers.

STAFF

Frederick J. Rau, MD, Division Director
Catherine Graziani, DO
Kerrie Henry, MD
Erin Pickett, MD
Elizabeth Purcell, MD
Emily Rosenbush, MD
Kelley Sturrock, MD
Marlaine Miller, MD
Ellen Lamb, MD
Ashley Young, MD
The Hematology-Oncology Division strives to improve the lives of children with cancer and blood disorders by delivering high quality family centered academic health care. We continuously improve what we do through discovery and partnerships. We have three broad areas of focus: family centered care, quality and safety, and research and teaching.

In the past year, the Division of Hematology-Oncology continued to excel in our ability to provide the highest quality of care with our focus on the patient and family experience; we are supported by a talented group of advanced practitioners and nurses as a key component of our service model. We broadened our programs and further developed several areas of expertise. We continued to develop and expand our programs in Survivorship, Supportive Care, and Palliative Care. We also maintained our focus on expanding disease expertise in neuro-oncology, sarcoma and other solid tumors, hematologic malignancies, and in adolescent and young adult oncology. In addition, we also provided cutting-edge research clinical trials within our Advanced Cancer Program for novel therapeutics. We developed new programs in oncofertility and, in collaboration with our Cardiology colleagues, formed a cardio-oncology clinic.

We successfully maintained the alignment of our advanced practitioner staff to provide continuous, streamlined, and patient-centered care in both inpatient and outpatient facilities. We continued our Care Team Model of comprehensive care, supporting each patient's treatment with a team of nurses, advanced practitioners, a social worker, and a physician, to provide longitudinal care. We continue to work to provide a seamless model of care between our clinic, infusion center, and inpatient unit.

We are humbled by our high commendations from patients and families, a testament to our continued striving for a family centered approach to care delivery. We are supported by our two active family advisory councils for sickle cell disease and cancer care. Utilizing their input, we have implemented processes to improve the patient and family experience so that children and families dealing with serious disease can do so with as much comfort and support as possible. We continue to identify ways to improve patient and family experience in collaboration with our family advisory councils.

Under the leadership of Dr. Natalie Bezler, our Quality and Safety Program has been active in seeking ways to improve quality of care delivery as well as patient safety including the implementation of strategies to reduce chemotherapy errors. In
addition, we have continued our regular mortality and morbidity rounds to foster systematic and objective evaluation of cases of adverse outcome in order to enhance our ability to learn from our experience in optimizing patient care. This past year, Dr. Bezler was honored with the Quality Cup Award presented at the annual medical staff meeting in recognition of her contributions within the Division of Hematology-Oncology and throughout the hospital.

Our research efforts continue to grow. Our participation in the Children’s Oncology Group is critical to providing access to clinical trials for our patients, and we have one of the highest clinical trial enrollment rates in New England. In addition, we are members of two national consortia: the National Pediatric Cancer Foundation’s Sunshine Project and the Beat Childhood Cancer consortium, bringing novel Phase 1 and Phase 2 treatments to children with relapsed and refractory cancers. Led by our division head Dr. Ching Lau, an internationally renowned expert in cancer genomics, we are on course to expand our partnership with Jackson Laboratory for Genomic Medicine in Farmington, CT, to develop a personalized approach to cancer therapeutics using patient-derived xenograft models as well as genetically engineered mouse models of pediatric cancers. The ongoing efforts of Dr. Lau’s laboratory at Jackson Lab focus on the discovery and validation of novel biomarkers and therapeutic targets for pediatric cancers and hematologic diseases with the ultimate goal of developing a comprehensive precision medicine program for childhood cancers and blood disorders.

Under the leadership of Dr. Michael Isakoff, the Reid R. Sacco Adolescent and Young Adult Cancer Program, supported by the Reid R. Sacco Adolescent and Young Adult Cancer Alliance and the Nascembeni family, has collaborated with and supported our consultation services for young adults in the Hartford region. We have begun to formalize our relationship with the Carole and Ray Neag Comprehensive Cancer Center at UConn Health Center, providing coordinated and collaborative care to adult patients with sarcoma. In addition, we actively participate in the Hartford Hospital surgical conference to review cases where we can lend our expertise. Additionally, Dr. Isakoff has received support from Lea’s Foundation for Leukemia Research to support the opening of clinical trials focused on the area of leukemia and lymphoma. Dr. Andrea Orsey is leading the way in advancing the supportive care for patients undergoing cancer therapy. She has continued to work on a yoga intervention project to improve the quality of life for pediatric cancer patients. This past year, Dr. Orsey was awarded a St. Baldrick’s Foundation Supportive Care Research Grant to validate integrated care delivery guidelines for anthracycline-induced cardiotoxicity. Dr. Donna Boruchov’s expertise and state grant funding for our sickle cell patients has guided regional standards for exceptional care. She also has received grant funding for participation in nationwide genotyping and a repository of our hemophilia patients. Dr. Boruchov was awarded a Patient-Centered Outcome Research Initiative (PCORI) grant in collaboration with the Children’s Hospital of Philadelphia to help advance the care of patients with sickle cell disease. Dr. Bezler was awarded a St. Baldrick’s Infrastructure Grant to help develop our Hematologic Malignancies Program.

Dr. Jonathan Bernstein is leading our efforts to bring in clinical trials for patients with bleeding disorders, and in 2019, we hope to begin to open these trials. Dr. Natasha Frederick is an expert in oncofertility and will be helping to expand the services and research of our Adolescent and Young Adult Cancer Program. Her research focuses on improving communication between adolescent and young adult patients and their oncology clinicians on sexual and reproductive health.

In addition to contributing to residency training for which we consistently receive outstanding feedback for our program, we initiated a clinical fellowship program in Pediatric Hematology-Oncology. In 2018, our first fellow began training. This represents another milestone in our mission to provide the best educational opportunities to the next generation of leaders in Pediatric Hematology-Oncology.

**PUBLICATIONS**


Spraker-Perlman HL, Barkauskas DA, Krailo MD, Meyers PA, Schwartz CL, Doski J, Gorlick R, Janeway KA, Isakoff MS. Factors influencing survival after recurrence in osteosarcoma:


The Division of Hospital Medicine is committed to providing evidence-based, family centered and high value care for the hospitalized children and families of Connecticut and the surrounding region. We emphasize quality care, educational excellence and academic scholarship, as we help to shape our young and rapidly expanding field. As recently as October 2016, Pediatric Hospital Medicine (PHM) was recognized for the first time by the American Board of Medical Specialties as an official specialty. During the past year, the division has seen unprecedented growth and success on many fronts.

Pediatric Hospital Medicine is the fastest growing specialty within Pediatrics and our division has paralleled that growth (Figure 1). We provide inpatient pediatric care at Connecticut Children’s Medical Center in Hartford, as well as at our 12-bed satellite unit at St. Mary’s Hospital in Waterbury, CT. Patient volume in our main hospital has grown rapidly, with over 80 percent growth in the past five years (2014 to 2018). Starting in January 2018, we expanded our reach to Fairfield County via our new partnership with Western Connecticut Health Network (WCHN). We now oversee the hospitalists and physician assistants who cover the newborn nursery and inpatient units at Danbury and Norwalk hospitals. We have brought to these new locations our own brand of best practice with introduction of family centered rounds, clinical pathways and coverage models that promote greater continuity of care. This expansion has been a huge step forward for our division, and is in strong alignment with the institution’s overall strategic plan. Hospitalists now cover 100 percent of general pediatric inpatients in all of our four inpatient locations. We oversee a highly capable group of APRNs and PAs, who provide outstanding care and have helped to lead many of our improvement initiatives.

Clinical accomplishments during the past year were numerous. We have taken a lead role in process improvement, with a focus on optimizing patient flow while ensuring high quality. The division spearheaded a movement to expand family centered rounds from our own group to all other medical specialties within the inpatient setting. Through that work, we have increased nurse presence on daily rounds and have created a culture of increased family engagement in bedside decision-making. We have continued our co-management program, which provides medical expertise in the care of complex surgical patients. This consult service has improved communication and family satisfaction, and has led to better care for children with complex needs. Through our Clinical Effectiveness arm, we have led in standardizing best practice via new clinical pathways that promote the latest evidence-based approaches for over 30 pediatric conditions. We have demonstrated reduced length of stay and costs, while consistently improving patient outcomes. Clinical pathways demonstrate how we, as hospitalists, improve value, defined by higher quality at lower cost, a concept that will be increasingly important as health care systems continue to evolve toward that goal.

The division had numerous educational accomplishments in 2018. Dr. Kathy Kalkbrenner again earned the 2018 Overall Faculty Award for Excellence in Teaching, this time shared with Dr. Trish Garcia and close runner-up Dr. Joanne Cyganowski. All three candidates for this award were from Pediatric Hospital Medicine in 2018! Dr. Christine Skurkis continued to help lead the pediatric residency program, and Dr. Cyganowski took on a new leadership role with the University of Connecticut medical students. The division extended its teaching to the Frank Netter, MD, School of Medicine at Quinnipiac University, in a highly regarded student rotation that takes place at our St. Mary’s unit.

Members of the division continue to share their work on a national level. Division head Dr. Anand Sekaran is one of 12 pediatric hospitalists nationally who are writing the first ever AAP PREP exam for Pediatric Hospital Medicine. This exam will serve as a primary learning tool to help hospitalists around the country prepare for the first PHM certifying exam, which is scheduled to take place in 2019. Dr. Sekaran served as associate editor for the PHM Core Competencies document, which defines the core content for the field. Dr. Beth Natt led the community hospital subcommittee for Pediatric Hospital Medicine and was a keynote speaker at our national conference. Dr. Ilana Waynik presented at the national meeting of the American Academy of Child and Adolescent Psychiatry on clinical pathways geared towards mental health. Dr. Alex Hogan presented two workshops at the national PHM meeting and was awarded a CICATS grant from the University of Connecticut to support his pursuit of a K23 award from the NIH. He also was
named as a finalist for the APA Young Investigator Award. His article on asthma control medication, “A Quality Improvement Intervention to Improve Inpatient Pediatric Asthma Controller Accuracy,” received the national distinction of being chosen as the top article of 2018 by Hospital Pediatrics.

As hospitalists, we continue to evolve in how we provide value to our patients and families, educate trainees, and improve inpatient care. Our goal is not only to measure our performance against national standards but to be at the top of those benchmarks. Yet as we continue to grow, we strive to maintain our greatest core value of putting patients and families first in all we do.

PUBLICATIONS

Book Chapter


Journal Articles


STAFF

Anand Sekaran, MD, Division Head
Kathy Kalkbrenner, MD, Clinical Director
Joanne Cyganowski, MD
Patricia Garcia, MD
Alex Hogan, MD
Jane Im, MD
Emilee Lewis, MD
Allyson McDermott, MD
Marta Neubauer, MD
Melanie Rudnick, MD

Christine Skurkis, MD
Catherine Sullivan, MD
MacDara Tynan, MD
Ilana Waynik, MD

Basia Adams, APRN, leader
Kara Denz-Fluck, PA-C
Christine Giudice, APRN
Jill Herring, APRN
Abby Theriaque, APRN

WCHN PROVIDERS

Danbury:
Beth Natt, MD, Regional Director of Pediatric Hospital Medicine
Donald Sampson, MD

Jacqueline Talbot, PA-C, lead PA
Beth Cross, PA-C
Alexandra Pavain, PA-C
Devin Stimpson, PA-C
Alexis D’Aloisio, PA-C
Lauren Smith, PA-C
Kimberly Orzech, PA-C

Norwalk:
Alicia Briggs, MD
Amanda Begley, MD

Pamela Fanning, PA-C, lead PA
Sharon Smith, PA-C
Jennifer Napolitano, PA-C
Nora Croll, PA-C
Jessica Gonzalez, PA-C
Jacquelyn Brown, PA-C
The Division of Infectious Diseases and Immunology provides excellent care for patients with unusual and chronic infections, and those with immune deficiencies.

The division continues its clinical work with inpatient and outpatient consult services for infectious diseases and immunology. Our volumes continue to rise, and in 2018, we enjoyed robust growth in our travel medicine program. With the national shortage of Yellow Fever Vaccine, we are the only site in the state of Connecticut offering pediatric-specific travel consult services that include provision of the Stamaril vaccine under an Expanded Access Program. Additionally, Dr. Melissa Held introduced refugee resettlement clinics, performing initial medical evaluations, treatments and vaccinations as needed for refugee children newly arrived in Connecticut. This collaborative program works alongside the existing programs run by Catholic Charities and the Integrated Refugee and Immigrant Services, as well as local family medicine clinics at the University of Connecticut Health Center, and it provides a unique experience for pediatric residents interested in careers in global health.

The Antimicrobial Stewardship Program implemented multiple new initiatives to improve stewardship effectiveness throughout the institution, and continues to work to optimize the clinician workflow and care provided to patients in the hospital. The new addition of Theradoc as a software solution for real-time notification and reporting for Antimicrobial Stewardship and Infection Prevention demonstrates the institutional commitment to patient safety and improved clinical outcomes. We continue to train successful pediatric pharmacy residents in our unique, fully accredited PGY2 Pediatric Infectious Diseases Pharmacy residency program under the leadership of Jennifer Girotto, PharmD.

Our Ryan White program’s funding was renewed through 2019 for its work caring for children and young adults infected with HIV, and those at risk for infection. In addition to our Medical Case Managers’ work on the Popular Opinion Leader initiative, school outreach, and the Willow support meetings for mothers infected with HIV, our clinic offers a comprehensive Pre-Exposure Prophylaxis (PrEP) for at-risk youth. PrEP includes testing, counseling, and preventative measures to reduce the risk of acquiring HIV and other sexually transmitted diseases. Our program was also the recipient of a $100,000 grant from the Connecticut Department of Health to enhance our ability to provide preventative care and HIV testing to at-risk youth.

The division continues to publish cutting-edge research, as well as clinical reports and reviews.
**Active Grants**
R21 AI128379 (Caimano) – 08/01/2017-07/31/2019, NIH/NIAID, $150,000.
Identification of Genes Required by Leptospira interrogans for Mammalian Host Adaptation and/or Persistence in the Rat Model.

R01 AI029735 (Radolf/Caimano) – 09/19/2018-08/31/2023, NIH/NIAID, $330,974.
RpoS Regulation of Borrelia burgdorferi Genes in Vivo.

R21AI139940 (Radolf/Caimano) – 06/15/2018-05/31/2020, NIH/NIAID, $150,000.
Borrelia burgdorferi oligopeptide (Opp) Transporter Control of Cellular Homeostasis and Growth.

**PUBLICATIONS**


**STAFF**
Nicholas Bennett, MBBChir, PhD, Division Head*
Alberto Cohen-Abbo, MD
Henry M. Feder, Jr., MD*
Melissa Held, MD*
Hillary Hernandez-Trujillo, MD
Juan C. Salazar, MD, MPH, FAAP*
Gavin Schwarz, MD
Melissa J. Caimano, PhD
Kelly Hawley, PhD
Jennifer Girotto, PharmD
Grace Hong, APRN*
*HIV Program

Medical Case workers
Danielle Warren-Dias, MS
Nilda Fernandez, LMSW
Myrna Millet-Saez
Consuelo Muñoz
Angel Ruiz

Nursing
Gail Karas
Leah O’Callahan
Jennifer Ryiz-Semmel
Operational since 2016, the Office of Innovation in Clinical Care Delivery (Office of ICCD) is designed to lead, prepare, and gear up frontline care teams to transform Connecticut Children’s into an integrated system managing and optimizing patient outcomes at lower costs. A new position, Connecticut Children’s Chief Clinical Transformation Officer (CCTO), was created in 2018 to lead the office, with a focus on population health. The office accelerates clinical transformation within an environment of intense change and growing complexity. The office sets the tone, engages, encourages, and facilitates change and transformation.

Approach
• The ICCD Fosters a deeper understanding and acceptance among physicians and staff of how care redesign opportunities can make their day-to-day less frustrating while improving the patient/family experience
• Plays a facilitator role in the expansion and diversification of care teams in a sustainable and cost-effective manner including links to community-based services
• Designs, implements, analyzes, and communicates survey results aimed at getting a pulse on a current state and clarifying the desired future state; using the results to take immediate action
• Directs care teams to tap into and leverage existing internal resources
• Makes connections across departments and the community to identify potential redundancies and gaps in care
• Works with care teams to see that they can address these challenges together using emerging health-care tools and internal resources that didn’t exist before
• Influences faculty and staff to embrace out-of-the-box thinking to address challenges and gaps in care delivery and to leverage the resources needed to bring the most promising ideas to clinical practice

Awards & Collaborations
1) In response to a request for proposal (RFP) from the Connecticut Department of Public Health (DPH), the division was awarded a three-year grant for a Connecticut Newborn Diagnosis and Treatment Network. The grant funding runs from July 1, 2018, to June 30, 2021, for a total award of $1,797,531. The award supports the creation of a statewide Newborn Screening (NBS) Network in partnership with the DPH to enable coordinated...
patient care in regard to timely and accurate diagnosis and therapeutic oversight from infancy through age 21 for infants diagnosed through NBS. The transformational model applies population health principles and e-Registry tools to provide the highest level of care and optimal health outcomes for a population cohort comprised of over 64 genetic conditions under the care of geneticists/genetic counselors, endocrinologists, hematologists, and immunologists.

2) Two-Generation Pediatrics Integrating Intergenerational Family Services, Behavioral Health (BH), and Care Coordination is a jointly funded project with the Village, a longstanding Hartford community agency that provides a full range of behavioral health treatment and supports services for children, families, and adults. The project is funded by United Health Foundation from January 2017 to January 2020, with a total award to Connecticut Children's of $627,296. The Office of ICCD and the CCTO and Co-PI of the project coordinate and support all aspects of this care transformation endeavor, which includes providing and securing the administrative, technical, analytical, and infrastructure support to drive the project and meeting the deliverables and reporting requirements. This project is informing us of challenges to be overcome in order to integrate BH and Care Coordination into primary care. In addition, it has established a foundation for the Village to become an important community partner.

3) The CCTO and PI/Office of ICCD has continued to expand its partnership with the Weitzman Institute, the research and quality arm of Community Health Center Inc. (CHCI), to explore care transformations that change the way primary care providers (PCPs) and subspecialists work together. Together, we received a HRSA sub-award (three-year: $90,000) plus e-Consult Fee for Service Contract to support this collaboration. It uses technology to bring together two complementary strategies, Connecticut Children's Co-Management/CLASP model and CHCI's e-Consult platform, CeCN, to create a learning health and referral management system that expands PCP scope of practice and addresses the access disparity for safety-net youth and the pressures to reduce costs. The Office of ICCD recruited eight faculty from four subspecialties as e-Consult providers, and 19 divisions have served as subject matter experts for CLASP tools. A related component of this work is the development of a pediatric interdisciplinary Project ECHO for “complex integrated pediatrics,” which selects contemporary pediatric conditions with a strong behavioral component and uses a case-based methodology to expand the capability of safety-net providers to manage these conditions. The Office of ICCD coordinates the curriculum and promotes and engages Connecticut Children's Specialty Groups (CCSG) faculty from multiple subspecialties for participation.

STAFF
Karen Rubin, MD, Chief Clinical Transformation Officer (CCTO)
Michele Krivickas, Program and Data Coordinator, Office of ICCD
The Division of Medical Genetics resides jointly in the Department of Genetics and Genome Sciences as well as the Department of Pediatrics. The mission of the division is to provide high quality, timely and state-of-the-art genetic consultations, counseling, and treatment for patients from the prenatal period throughout childhood and into adulthood.

We mourn the loss this year of Dr. Robert Greenstein, who died on July 27, 2018. He built and led the division from its inception until his retirement. He will be greatly missed.

Care throughout the lifespan is provided across two campuses by a team of clinical geneticists, genetic counselors and metabolic dieticians. Dr. Joseph Tucker currently serves as interim division head.

It has been an exciting year for the division. Connecticut Children’s Medical Center has contracted with the Connecticut State Department of Health to provide newborn screening triage services for the entire state. The core newborn screening team is housed within the Division of Medical Genetics. As part of this effort, an additional 0.5 FTE genetic counselor, 1.0 FTE nurse, 0.8 FTE metabolic dietitian support, and 0.6 FTE data coordinator have been dedicated to provide support for children and adults with conditions identified through newborn screening. Our metabolic clinic is transitioning from the UConn Health campus to Connecticut Children’s to provide better continuity of care and care coordination.

Our team currently consists of 1.0 FTE clinical medical geneticist, 2.0 FTE prenatal genetic counselors, 0.8 FTE general genetic counselor, 0.5 FTE newborn screening genetic counselor, 1.8 FTE hereditary cancer genetic counselors, 1.0 FTE teratology counselor, and 0.8 FTE metabolic dietitians. The clinical, administrative, and academic offices are currently housed at the UConn Health satellite 11 South Road, Farmington, CT, where children and adults are seen in a general genetics clinic. Prenatal and hereditary cancer genetic counseling services are provided in the outpatient pavilion on the main UConn Health campus. MotherToBabyCT provides additional prenatal counseling services at 195 Farmington Ave., Farmington, CT. Additional pediatric services are provided at our Connecticut Children’s outpatient clinic at 11 South Road, Farmington, CT.

A full-service cytogenetics laboratory run by Dr. Peter Benn at John Dempsey Hospital in Farmington provides genetic testing services.

Increased use of non-invasive prenatal genetic testing continues to increase the number of patients being seen by the prenatal service, and frequently updated test offerings for patients with hereditary cancers has increased the number of patients being seen and evaluated by the hereditary cancer counseling program. MotherToBabyCT, our teratogen counseling program, is expanding its coverage throughout the state.

Collaborations with Connecticut Children’s Medical Center, Department of Public Health Newborn Screening Program, UConn’s Maternal-Fetal-Medicine program, and UConn’s Carole and Ray Neag Comprehensive Cancer Center in Farmington are robust and active.

The division’s educational mission begins in the first year of medical school and goes through postgraduate fellowship. We have an active medical genetics and genomics residency training program. There are also student, resident, fellow, and genetic counseling learners who spend a month’s rotation in genetics.

New/Ongoing Collaborations
Joseph Tucker, MD, currently serves on the board of directors for New England Regional Genetics Group (NERGG) and serves as a member of the Connecticut State Rare Disease Task Force. He continues in his role as an active member of the GUPPE program, and along with the Urology, Psychiatry, Psychology, and Endocrinology divisions at Connecticut Children’s, it provides multidisciplinary care for children with disorders of sexual development.

Sharon Voyer Lavigne, MS, LGC, serves on the board of directors for the Organization of Teratology Information Services (OTIS). She also serves as vice president of the board of directors for Post Partum Support International, CT Chapter.

STAFF
Joseph Tucker, MD, Interim Division Head
Peter Benn, PhD

Genetic Counselors
Alicia Craffey, MS, LCGC
Brittany Ganczar, MS, LCGC
Ginger Nichols, MS, LCGC
Jennifer Stroop, MS, CGC, LCGC
Sharon Voyer Lavigne, MS, LGC
Connor Linehan, MS, LGC
Samantha Wesoly, MS, LCGC

Metabolic Dietitians
Sherry Gray, MS, MPH, CD-N
Kaitlyn Ware, MS, RD, CNSC, CD-N

Fellow
Jaclyn Beirne, MD
The Division of Neonatal-Perinatal Medicine is anchored by our Level IV children’s NICU (neonatal intensive care unit) in Hartford, CT. We’re proud to be ranked among the Top 25 in the nation by U.S. News & World Report. The division directs one of the largest and most diverse clinical services in New England and is a major perinatal regional center for Connecticut. The primary mission of the division is to provide high quality, state-of-the-art care to neonates in both our state and our region, in addition to advancing education, training, and cutting edge research.

The division faculty provides care at multiple sites across the state including Connecticut Children’s Medical Center (Hartford), Connecticut Children’s Medical Center at the University of Connecticut Health Center (UConn Health)/John Dempsey Hospital (JDH) in Farmington, St. Francis Hospital and Medical Center (SFHMC) in Hartford, Eastern Connecticut Health Network (ECHN) in Manchester, the Hospital of Central Connecticut (THOCC) in New Britain, MidState Medical Center in Meriden, William W. Backus Hospital in Norwich, St. Vincent’s Medical Center in Bridgeport, Windham Hospital in Willimantic, and Western Connecticut Health Network (WCHN), which includes both Danbury Hospital and Norwalk Hospital. Our faculty members not only work collaboratively across these sites but also are leaders in the Connecticut Perinatal Quality Collaborative, helping to improve maternal and newborn care at the state level. This year, we have expanded our partnerships portfolio to include teleconferencing and joint education video sessions along with telemedicine capabilities for patient consultation.

Among highlights this year, division head James E. Moore, MD, PhD, was awarded the 2018 Richard Rivas Memorial Teaching Award at the Specialty Review Conference in Neonatology in Orlando, FL. The award recognizes leaders in the field of neonatology and their dedication to teaching at the national level. Dr. Moore will be the 2019 recipient of the Founder’s Award from the Southern Society for Pediatric Research (SSPR). This prize recognizes a member of the SSPR who has made significant contributions to the health of children through research and education and has been critical in advancing the group’s mission.

Donor Ross Mayer committed to creating the Ross Mayer Endowment Fund, an endowed fund for the NICU in honor of his son, Spencer David Mayer. Mr. Mayer committed $250,000, a sum that will be matched to create a $500,000 endowment. This is the largest endowed fund for any division at the medical center. Mr. Mayer surprised Dr. Moore with the gift. He was particularly inspired to create it after seeing that U.S. News & World Report had ranked the Connecticut Children’s NICU No. 1 in the state.

The division’s global outreach initiatives continue with support for neonatal education and resuscitation in Haiti, an effort led by Drs. Vic Herson and Sandy Motta from the divisional faculty. Our team members partner with the NICE Institute in Hyderabad, India, where we helped set up one of the first HIE (hypoxic-ischemic encephalopathy) cooling centers in the country. Dr. Naveed Hussain has continued his work on...
education within the region around Hyderabad, utilizing Helping Babies Breathe (HBB), and developing educational electives for residents and Neonatal fellows. Dr. Betté Ford, a second year fellow, is the most recent PG5 to participate in this program and was involved in didactic and simulation teaching in the center. Ongoing developments are underway to allow for regular education sessions via teleconferencing and to develop the ability to provide subspecialty consults via telemedicine to the NICE Institute moving forward.

The research mission of the Division of Neonatal-Perinatal Medicine focuses on several areas including the science of human milk and nutrition with multidisciplinary teams of professionals working within the Connecticut Children’s Human Milk Research Center. We also have a core faculty group interested in inflammation biology and NEC (necrotizing enterocolitis) and how Toll-like receptors (TLR) and pregnane X receptor (PXR) are involved within the development of or protection from NEC. Our Neonatal Neurodevelopment Follow-up Clinic (NNFP) is involved in the New England Regional Follow-up Consortium and has been publishing outcomes data from our multiple NICUs. We invite you to explore some of our most recent work below.

As an academic section, education through teaching and mentoring neonatology fellows, pediatric residents, medical students, nurse practitioners, physician assistants and pharmacy students is a primary objective. The faculty continues to lecture and organize National Neonatology board review courses, publish textbooks in the field, and, in 2018, hosted both our third annual Symposium on Neonatal Advances, featuring five international speakers discussing neonatal resuscitation, and also a Neonatal Research Day at our main campus in Hartford. The research day included five regional speakers with topics covering stem cells in management of neonatal problems, mucosal immunology research, nutrition and breast milk research, and neurosciences.

**Neonatal Critical Care Transport Team**

The Neonatology Division’s dedicated Transport Team is responsible for the transport of critically ill neonates from referring hospitals across New England to a newborn intensive care unit (NICU) within our network that is appropriate for the baby’s individualized medical needs. We believe in leveraging our clinical neonatal network to provide the right care, at the right place, at the right time, as close to home as possible. The team also transports newborns requiring procedures or evaluations to and from Connecticut Children’s Level IV NICU at the Hartford campus. In fiscal year 2018, the Neonatal Transport Team provided approximately 300 transports. Neonatal-Perinatal medicine fellows (PGY4-6) are involved in the transport program. There is graduated responsibility from PGY 4-6 resulting in the capacity for high acuity transports. Fellows participate in transports during on-service rotations and during calls on nights and weekends.

**Neonatal Neurodevelopmental Follow-Up Program**

Connecticut Children's Neonatal Neurodevelopmental Follow-Up Program is a regional program that provides services to all high-risk infants born and discharged from the NICUs in the Greater Hartford and Eastern and Central Connecticut region. The program receives referrals from NICUs at Connecticut Children’s in Hartford and Farmington, St. Francis Hospital, the Hospital of Central Connecticut, and Eastern Connecticut Health Network, Connecticut Children’s ECMO program, Cardiology, Neurosurgery, Pediatric Surgery and community pediatricians. This is one of only two such programs in state of Connecticut. It provides multidisciplinary comprehensive assessment for
growth and nutrition, as well as neurologic, and developmental and behavioral assessment using standardized developmental testing tools such as the Bayley Scales of Infant and Toddler Development®, Third Edition, and Brief Infant Toddler Social Emotional Assessment. These assessments are conducted by trained providers including neonatologists, occupational and physical therapists, and nurses. Eligible children are seen at regular intervals, starting soon after discharge from hospital to 3 years of age.

PUBLICATIONS


Hagadorn JI, Bennett MV, Brownell EA, Payton K, Benitz WE, Lee HC. Covariation of patent ductus arteriosus management and in-hospital outcomes of preterm birth. JPEDS. 2018 Sep 20. [Epub ahead of print]


Book Chapters

STAFF

James E. Moore, MD, PhD, Division Head
Jose Arias-Camison, MD
Tina Rita Bafumi, MD
Fadel Balawi, MD
Jeffrey Bartlett, DO
James Belisle, MD
Arvin Bundhoo, MD
Brett Citarella, MD
Leonard I. Eisenfeld, MD
Annmarie Golioto, MD
Ahmet Gork, MD
James Hagadorn, MD
Catherine Hansen, MD
Victor C. Herson, MD
Naveed Hussain, MBBS, MD
Carla Jacobson-Kiel, MD
Kendall Johnson, MD
Shabnam Lainwala, MD
Kathleen Marinelli, MD
Adam Matson, MD
Arpana Mohhani, MD
Sandra Motta, MD
Mariani Pappagallo, MD
Indira Panthagani, MD
Alaina Pyle, MD
Ted S. Rosenkranz, MD
Marilyn Sanders, MD
Shikha Sarkar, MD
Meltem Seli, MD
Julie Sheehan, MD
David W. Sink, MD
Morgan Spaight, MD
Jennifer Trzaski, MD
Aniruddha Vidwans, MD
Joseph Vitterito, MD
Ramindra Walia, MD
Scott Weiner, MD
Leslie I. Wolkoff, MD
Elizabeth Brownell PhD, MA
Jacqueline McGrath, PhD

Sandra Bellini, DNP, APRN, NNP-BC
Allison Bailey, PA
Jacquelyn Browne, PA
Alyson Buck, PA
Allison DaCruz, PA-C
Candace Calhoun, PA
Amy Canino, PA
Heather Champagne, PA
Corey Champeau, PA-C
Gillian Carella, PA
Sabrina Colangelo, PA-C
Nora Croll, PA
Beth Cross, PA
Alexis D’Aloisio, PA
Shivani Desai, PA-C
Pamela Fanning, PA
James Gerace, PA
Kaitlyn Jones, PA
Cheryl Juhinke, PA
Brian Landry, PA-C
Jessica LaVacca, PA
Matthew Light, PA
Sheila Mattei, PA
Amy Messinger, PA
Betsy Meyer, PA
Kristen Moore, PA
Jennifer Napolitano, PA
Sandy Narciso-Owen, PA
Lucia Onofrio, PA-C
Kim Orzack, PA
Alexandra Pavain, PA
Jamille Rancourt, PA
Philip Roach, PA
Meagan Sheakowski, PA
Jessica Simao, PA
Lauren Smith, PA
Sharon Smith, PA
Devin Stimpson, PA
Jacqueline Talbot, PA
Danielle Waite, PA

Susan Beebe, APRN
Kim Bottone, APRN
Kate Boxberger, APRN
Mary Brennan-Centrella, APRN
Renee Brockett, APRN
Anna Camacho, APRN
Stephanie Capps, APRN
Jessica Cauchon, APRN
Karen Cleaveland, APRN
Andrea Dameron, APRN
Nicole Dugay, APRN
Michelle Foell, APRN
Jeanne Franza, APRN
Margarida Haar, APRN
Jill Herr, APRN
Debra Karinski, APRN
Victoria Langer, APRN
Kelley Lavine, APRN
Lindsay Leighton, APRN
Michelle Letendre, APRN
Jennifer Long, APRN
Sherry Matook, APRN
Niklos Markey, APRN
Karen McGuiness, APRN
Stephanie McGuire, APRN
Suanne Menick, APRN
Karen O’Brien, APRN
Kim Osiki, APRN
Wendy Petow, APRN
Wendy Pietruszkiewicz, APRN
Laura Pittari, APRN
Terry Poppiti, APRN
Christine Raymond, APRN
Heather Remy, APRN
Megan Richardson, APRN
Stacey Rubin, APRN
Jessica Simao, APRN
Patricia Trehey, APRN
Lindsay Tucker, APRN
Rebecca Valentine, APRN
Laura Van Dyke, APRN
Erin Vlahakis, APRN
Alyssa Weiss, APRN
Mary Young, APRN

Fellows

Jennifer Caldwell, MD
Aditya Chhikara, MD
Betté Ford, MD
Rachel Koski, MD
Mishika Malik, MD
In 2018, the Nephrology service experienced growth through the provision of cutting edge therapies including plasmapheresis, and by increasing the division's number of providers. Nephrology was approved to begin the design and construction of what will be the first pediatric dialysis unit in the state. The division also saw continued excellence in transplant services and outcomes.

The year of 2018 was a clinical success. While we were sorry to see the departure of Dr. Samriti Dogra, who relocated, we were delighted to welcome Dr. Robyn Matloff to the division in June, enabling us to successfully push forward with plans to bring care into the Fairfield market. The division continues to be robust with four board-certified pediatric nephrologists, a diettitian, a physician assistant, three nurses, and a dedicated full-time social worker. Strong clinical relationships exist with Urology and Transplant Surgery to provide seamless, comprehensive care for our patients, regardless of where they are located in our hospital.

In 2018, the division increased clinical services by beginning an Ambulatory Blood Pressure Monitoring (ABPM) program spearheaded by Dr. Ian Macumber. This program is providing comprehensive hypertensive care not only in Hartford, but at all Connecticut Children’s locations across Connecticut and western Massachusetts. The division had continued steady outpatient visits of around 5,500 for the year. The visits were comprised of pre-transplant, post-transplant, inpatient, and outpatient consults as well as acute and chronic dialysis. Our Renal Transplant service continued with three recipients for the year, and our patients are now undergoing cutting-edge, steroid-free protocols. The division continues to work closely with the ICU on a regular basis to provide continuous veno-venous hemodiafiltration for our sickest patients.

The division has continued to participate in prestigious research consortiums including the SCOPE (Standardizing Care to Improve Outcomes for Pediatric ESRD) Collaborative and the Midwest Pediatric Nephrology Consortium (MWPNC). These collaboratives produce quality- and research-driven outcomes in the department. The division continued with multiple research initiatives and demonstrated high productivity with papers and abstract presentations at national meetings. The division has 16 active IRB-approved research studies as well as joint research collaborations with other divisions.

This year our team exhibited national academic excellence.
with division head Dr. Cynthia Silva presenting her work on nephrogenic diabetes insipidus at the American Society of Nephrology. Dr. Sherene Mason was awarded the University of Connecticut’s H. Fred Simons African American Cultural Center 2018 Outstanding Young Alumni Award. Dr. Mason also had three invited poster presentations at Connecticut Children’s Illuminations Quality and Safety Annual Conference in October 2018.

As we look forward to the upcoming year, we expect to increase volume as we expand ambulatory blood pressure monitoring services toward Danbury and Fairfield, CT, and to Baystate Medical Center in Springfield, MA. We also will continue our extensive research portfolio and increase IRB-approved, research-funded studies.

**PUBLICATIONS**


**STAFF**

Cynthia D’Alessandri-Silva, MD, FAAP, Division Head

Samriti Dogra, MD
Ian Macumber, MD
Sherene Mason, MD, FAAP, MBA
Bruce McDonald, MD, FAAP
Robyn Matloff, MD

Molly Band, PA-C
The division continued to expand its services in 2018 in order to provide comprehensive state-of-the-art neurology services for pediatric patients. Ms. Dina Conely, our new APRN, started this year and provides follow-up visits for headache and Tourette patients. We have a new faculty member, Dr. Elizabeth Ng, who took over the EMG diagnostics and provides expanded services for the EEG/epilepsy program.

The division members presented their work at numerous national and international conferences. We continue to be involved in several clinical trials for tuberous sclerosis, autism, epilepsy, and SMA.

**Awards/Honors**
Dr. Graf was appointed to the American Academy of Neurology Drug Pricing Task Force and Brain Death Working Group. He was reappointed to the American Academy of Neurology Ethics, Law, and Humanities Committee, and reappointed as the chair of the Ethics Committee of the Child Neurology Society (CNS).

Dr. Francis DiMario was the recipient of the University of Connecticut’s Department of Pediatrics 2018 Didactics Teaching Award for Excellence in Resident Teaching.

**Active Grants**
- MDA Care Center Grant from the Muscular Dystrophy Association (3 years).
- New grant from the CureSMA organization to establish a SMA Care Center.
- Educational Grant from the Children’s Tumor Foundation.
- Dr. Acsadi is the site PI for a 5-year study of SMA treatment funded by Biogen.
- HRSA Grant awarded to the Epilepsy Foundations of CT Northeastern New York and New Jersey. Improving Accurate Diagnosis & Treatment of Epilepsy: A Training for Pediatric Practice Teams.
- Affinity Research Collaborative (ARC); the Institute for Systems Genomics at the University of Connecticut. Neural synaptic and circuit dysfunction in the autism spectrum disorders. $250,000 over 5 years. (Currently in year 3) Co-PI: Louise Kalsner, MD.
- Connecticut Bioinnovations. Adaptive Clinical Genomics for Precision Medicine (with Jackson Laboratory) to investigate the use of a new genomic technology called Allseq in the evaluation of children with autism. Investigator: Louise Kalsner, MD.
- University of Connecticut Provost’s Academic Plan Award. TSC2 Variant Without Clinical Findings of Tuberous Sclerosis as a Risk Factor for Idiopathic Autism Spectrum Disorder. $300,000 over 3 years. Co-PI: Louise Kalsner, MD.
- Novartis Pharmaceuticals Inc. Multicenter Clinical Trial. A three-arm, randomized, double-blind, placebo-controlled study of the
Efficacy and Safety of Two Trough-ranges of Everolimus as Adjunctive Therapy in Patients with Tuberous Sclerosis Complex (TSC) Who Have Refractory Partial-onset Seizures. Site Investigator: Francis DiMario, MD.

PUBLICATIONS


Book Chapters


STAFF

Gyula Acsadi, MD, PhD, FAAN, Division Head

Francis J. DiMario, Jr, MD
William D. Graf, MD, FAAN
Louisa Kalsner, MD
Jennifer Madan Cohen, MD
Elizabeth A. Ng, MD, FAAN
Mark Schomer, MD
Richard Young, MD
Edwin Zalneraitis, MD

Jeffrey Agli, APRN
Constandina Conley, APRN
The Division of Pediatric Neurosurgery is committed to the following core values:

- We are dedicated to the delivery of comprehensive, compassionate, and timely family-centered care to our patients and families
- We collaborate with and respect all members of our regional community
- Through clinical research, we hope to develop new and better treatments for neurosurgical disease

**Patient Satisfaction**
The Division of Neurosurgery is committed to providing outstanding service to our referring providers and families. Pediatric Neurosurgery received #1 status in 2018, with the highest level of patient and family satisfaction among all divisions at Connecticut Children’s Medical Center.

**Quality Improvement Initiatives**
The division of Pediatric Neurosurgery remains committed to patient quality and safety. In addition to participation in the American College of Surgeons’ Pediatric National Surgical Quality Improvement Program (NSQIP), the division’s internal quality program continues to benchmark our performance against national standards. Coupled with our ongoing development of clinical pathways for patient care, we strive to provide outstanding care to our patients, families, and referring providers.

**Surgical Volume**
The Division of Pediatric Neurosurgery continues to provide the full spectrum of surgical care to the children of Western New England. In 2018, more than 300 children were provided surgical care by our expert team of providers.

### Quality Metrics

<table>
<thead>
<tr>
<th></th>
<th>Connecticut Children’s</th>
<th>National Benchmarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shunt failure, 90 days</td>
<td>17.6%</td>
<td>11.5% (30-day data)</td>
</tr>
<tr>
<td>Shunt infection</td>
<td>1.2%</td>
<td>6%</td>
</tr>
<tr>
<td>30 day readmission</td>
<td>9.1%</td>
<td>8.1% - 11.2%</td>
</tr>
</tbody>
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**Education and Research**
The Division of Neurosurgery remains committed to the mission of education and research. In cooperation with the University of Connecticut School of Medicine and Hartford Hospital, Connecticut Children’s Medical Center is actively pursuing an application for hosting a neurosurgical residency program with the Accreditation Council for Graduate Medical Education.

Dr. Markus Bookland’s basic science research, funded in part through grants from the Connecticut Brain Tumor Alliance, has been productive over the past year. Major publications were achieved on biomarkers for pediatric low grade glioma and 3D brain tissue modeling.

PUBLICATIONS

**Bookland M, Balarezo FS, Mandavili S.** Rare congenital meningothelial hamartoma of the scalp with progressive growth. Childs Nerv Syst. 2018; June 18. [Epub ahead of print]


STAFF

Jonathan Martin, MD, FAANS, FACS, FAAP, Division Head
Associate Director of Trauma, Connecticut Children’s Medical Center

Markus Bookland, MD
Associate Director of Academic Affairs, Connecticut Children’s Medical Center

Paul Kanev, MD

Katie Kellerman, PA-C
Allison Labelle, APRN
Petronella Stolz, APRN, DNP

Affiliated Faculty

Eileen Gillan, MD, Neuro-oncology
Mark Lee, MD, Orthopaedic Surgery
Charles Castiglione, MD, Craniofacial Surgery
Belachew Tessema, MD, Otolarynology / Endonasal

Sinus Surgery

Marty Ollenschleger, MD,
Neurointerventional Radiology
Jennifer Madan-Cohen, MD, Epilepsy / Neurology
Helaine Bertsch, MD, Radiation Oncology
The mission of the Pediatric Obesity Center is to be at the forefront of the care of families with obesity by providing innovative clinical service, cutting-edge research initiatives, and tailored education of the next generation of providers.

Clinical Growth
The year 2018 brought continued clinical growth for the Pediatric Obesity Center with significant increases in referrals to our program:

- 2018: 1,019 referrals
- 2017: 712
- 2016: 515
- 2015: 458

We increased the range of programs being offered and fully combined our teams – surgical (Drs. Christine Finck and Meghna Misra; and Nicole Boone, PA), medical (Drs. Priya Phulwani and Jessica Zimmerman), mental health (Obesity Center clinical director Dr. Melissa Santos) and nutrition (Hailey Beiner, RD) – to be able to offer comprehensive services to the families we serve. In the fall of 2018, the center welcomed Michael Reiss, PsyD, former psychology postdoctoral fellow in Connecticut Children’s Pain and Palliative Care program, to provide further mental health services to the families in our program.

Collaborations
Much of 2018 was spent preparing for our bariatric surgery program to apply for Center of Excellence status, a national accreditation that is challenging for adolescent programs to achieve. We formalized a collaboration with Hartford Hospital's Metabolic and Bariatric Surgery program, which allows us to offer full continuity of care from childhood to adulthood for individuals with obesity. We established a clinical pathway for the transition of patients between our programs. Lastly, our program was awarded a small grant from Hartford Hospital's surgical department to examine pain management in youth and adults pre- and post-bariatric surgery.

Research and National Recognition
The Pediatric Obesity Center maintains 11 IRB-approved studies targeted at improving care for children and adolescents with obesity. Some notable achievements over the past year include three NIH submissions. Our team also gave four national conference workshop presentations. Drs. Finck and Santos presented at the Society of Pediatric Psychology Annual Conference, and our clinical team (Finck, Misra, Phulwani, Beiner and Santos) presented a lecture, "Management of Severe Pediatric Obesity: A Primer for the Practitioner," as part of the Connecticut Children's Continuing Medical Education (CME) Evening Lecture Series. Our program also presented five abstracts showcasing our collaborations with Connecticut
Children’s Pain and Palliative program, as well as the work of our learners.

Dr. Santos continues to place the program on the national level with ongoing collaborations that remain from the program’s participation in the Children’s Hospital Associations’ workgroup FOCUS on a Fitter Future. Dr. Santos is on the governance board of POWER (Pediatric Obesity Weight Evaluation Registry), the national registry for childhood obesity. She was elected to the board of directors for the Society of Pediatric Psychology, the major psychology organization for pediatric psychologists. She also was selected to join the editorial board of the journal Eating Behaviors.

Education

Our center continued its mission to train the new generation of providers. Fourteen students rotated through the Obesity program under Dr. Santos for various research and clinical experiences. Our learners have made great contributions to the care we provide, and they have made an impact at the national level. Zachary Patinkin, MPH, an MD candidate in the class of 2019 at the Frank H. Netter, MD, School of Medicine at Quinnipiac University, had his poster on screening for obstructive sleep apnea receive a special recognition ribbon at Obesity Week, the international conference, which was held in Nashville, TN, in 2018. Two summer volunteers had a poster accepted at Obesity Week, and numerous other students are seeking advanced education in the area of obesity and nutrition.

Summary

We are excited for continued growth and changes in 2019 as we continue to enhance the care we provide to the families we serve.

PUBLICATIONS


STAFF

Melissa Santos, PhD, Clinical Director, Obesity Center

Christine Finck, MD, FACS, Surgeon-in-Chief

Meghna Misra, MD, MS, FACS

Jessica Zimmerman, MD

Priya Phulwani, MD

Michael Reiss, PsyD

Hailey Beiner, RD

Nicole Boone, PA
This is the first annual report of Connecticut Children’s Medical Center’s newest division: Ophthalmology. Connecticut Children’s acquired the esteemed practice, Children’s Eye Care, which was established more than 40 years ago with offices in Farmington and Glastonbury. Dr. Paul J. Rychwalski was recruited as the new division chief and joined current Connecticut Children’s ophthalmologist Dr. Majida Gaffar in August 2018.

The division is actively recruiting two to three additional physicians, an additional pediatric optometrist to complement Drs. Marnie Smith and Maria Varela, and a physician’s assistant. Connecticut Children’s Ophthalmology will maintain its two clinic sites in Farmington and Glastonbury with the former set to occupy new space adjacent to the Connecticut Children’s Ambulatory Surgery Center in late 2019/early 2020. These moves will ensure excellent access to ophthalmology experts without lengthy waits or the need to refer outside the network for complex ophthalmic care.

A state-of-the-art ophthalmic surgical suite is being developed within the main campus operating rooms and at the Children’s Ambulatory Surgery Center in Farmington. In addition, an ophthalmic diagnostic center is being assembled within the two outpatient clinic facilities. Intraocular surgery such as cataract extraction, intraocular lens implantation, anterior segment reconstruction and glaucoma operations will then be available at Connecticut Children’s. Currently, children requiring these sight-saving operations must be sent outside of the Connecticut Children’s family of hospitals. In the clinic, we are adding the ability to perform swept-source optical coherence tomography (SS-OCT) for retina and optic nerve morphological analysis, virtually touchless intraocular pressure testing, wireless indirect ophthalmoscopy, advanced corneal topography and ectasia detection technology. In addition, we will offer visual electrophysiologic testing using technology that obviates the need for sedation and contact lens electrode placement on the eye.

Ophthalmology is a very important partner on the care team of our tiniest patients: babies born prematurely and being cared for in one of the Connecticut Children’s neonatal intensive care units. As our colleagues in Neonatology, led by Dr. James Moore, use innovation and compassionate care to save the most vulnerable infants, it is important that the ophthalmology division provide robust support in screening and managing a devastating sequela of prematurity: retinopathy of prematurity (ROP). Our candidates for recruitment will be trained in ROP detection and treatment, and we will look to technology to assist in our surveillance of this ocular condition.

The Division of Ophthalmology has joined the Pediatric Eye Disease Investigator Group (PEDIG). PEDIG is an NIH-funded consortium of academic and private practice ophthalmologists and optometrists that develops and publishes large-scale clinical trials in ocular disease prevention and treatment.

**STAFF**

Paul J. Rychwalski, MD, Division Head
Majida Gaffar, MD
Marnie Smith, OD, Pediatric Optometrist
Maria Varela, OD, Pediatric Optometrist
The Orthopaedic Surgery Division consists of three services: The Pediatric-Orthopaedic service, the Sports Medicine service (Elite Sports Medicine), and the Center for Motion Analysis (CMA). Our team is made up of exceptional surgeons and physicians, PAs, APRNs, sports trainers and engineers with many years of extensive training and experience to provide our patients with quality care. We provide the full spectrum of care for children and young adults with orthopaedic conditions such as scoliosis and spinal deformities, limb deformity, congenital dislocated hips, clubfeet, congenital hand deformities, children’s fractures as well as neuromuscular conditions such as cerebral palsy, spina bifida, and muscle diseases. Our Sports Medicine Division provides expert care for injured athletes as well as injury prevention programs.

The Orthopaedic Surgery department has six fellowship-trained surgeons: division head Dr. Jeffrey Thomson, and Drs. Mark Lee, Phil Mack, Kristan Pierz (promoted this year to assistant professor), Janet Zahradnik, and Sonia Chaudhry. Our orthopaedic surgeons work closely with UConn Health and Maimonides Medical Center Orthopaedic residents who receive clinical and surgical experience. Our ACGME-accredited pediatric orthopaedic fellowship continues to train the upcoming generation of Pediatric Orthopaedic surgeons. Our advanced practice providers, Bruce Bowman, PA-C, Amy Shannon, APRN, Marta Jablonski, PA-C, and Robin Bradshaw, APRN, continue to see the vast majority of the general orthopedic outpatient volume. Dr. Sonia Chaudhry was awarded the prestigious ASSH/AFSH 2018-2019 International Hand Surgery Fellowship to Ganga Hospital, Coimbatore, India. She will be completing this fellowship in early 2019. In December 2018, the Orthopedic Surgery Division moved into the newly designed 4th floor of the Bone & Joint Institute. The space features a state-of-the-art, kid- and family-friendly, outpatient office space. It also houses the EOS® X-ray Image System providing high quality, extremely detailed images at a significantly lower radiation dose compared to a typical radiographic X-ray.

The Sports Medicine Service (Elite Sports Medicine) has two sports medicine surgeons, Drs. Lee Pace and Jonathan Gelber, as well as two non-operative physicians, medical director Dr. David Wang, and Dr. Imran Hafeez. Four physician assistants, A.J. Riccuitti, PA, Kevin Fitzsimmons, PA, Nicole Cottle, PA, and Katelyn Colosi, PA, complement the team. The service provides sports medicine coverage for several high schools as well as Trinity College and Quinnipiac University sports teams. In addition, the sports medicine department continues to grow and has acquired HeadZone in Fairfield, CT, expanding Elite Sports Medicine’s expertise in the clinical area of concussions to a broader demographic. This year, Dr. Pace performed the nation’s first arthroscopic trochleoplasty procedure at our
surgery center in Farmington. The minimally invasive knee procedure is designed to correct trochlear dysplasia — a congenital malformation of the knee joint that affects the kneecap. Connecticut Children’s is at the forefront in the treatment of this condition, which can limit mobility and a child’s ability to take part in sports.

The Center for Motion Analysis, directed by Kristan Pierz, MD, and Sylvia Ōunpuu, MSc, has achieved full accreditation by the Commission for Motion Laboratory Accreditation. The CMA provides a wide range of diagnostic services evaluating children with disorders that affect walking and which may require treatment including orthopedic surgical intervention. The Center for Motion Analysis also conducts research on disorders that impact gait such as Charcot-Marie-Tooth disease, cerebral palsy, and clubfoot, as well as sports injuries.

Our research efforts, led by Matthew Solomito, PhD, provide a robust program that this year resulted in 13 publications, 11 presentations, and 10 posters/e-posters.

**PUBLICATIONS**


**STAFF**

Jeffrey D. Thomson, MD, Division Head

Sonia Chaudhry, MD
Jonathan Gelber, MD
Imran Hafeez, MD
Mark C. Lee, MD
Philip W. Mack, MD
Lee Pace, MD
Kristan Pierz, MD
David Wang, MD
Janet Zahradnik, MD

Bruce E. Bowman, PA-C, DFAAPA
Robin Bradshaw, APRN, ONC
Nicole Cottle, PA-C
Katelyn Colossi, PA-C
Kevin Fitzsimmons, PA-C
Marta Jablonski, PA-C
Sylvia Ōunpuu, MSc
A.J. Ricciuti, PA-C
Amy Shannon, APRN
Matthew Solomito, PhD, Research Director

**Fellows**

Alvin Su, MD
Fred Xavier, MD
Since the founding of the Division of Otolaryngology – Head and Neck Surgery in 1999, we have expanded our clinical services. In the last fiscal year, Connecticut Children’s Specialty Group Division of Otolaryngology performed 2,323 surgeries and 12,816 outpatient visits.

Dr. Christopher Grindle continues in his stellar quality and safety initiatives. He has refined the tonsillectomy perioperative pathway with improved efficiency for families, providers and the nursing staff.

Under the direction of Nicole Murray, MD, the Connecticut Children’s Aerodigestive Team (CCAT) has expanded services both in Hartford and at our Farmington location to improve access and timeliness of care. The team includes Otolaryngology – Head and Neck Surgery, Pulmonary Medicine, Gastroenterology, and Speech Language Pathology. This specialty clinic has become very popular for families whose members are able to obtain comprehensive aerodigestive care for their children including collaboration with our Speech Language Pathology colleagues in performing functional endoscopic evaluation of swallowing (FEES). In addition to her work on the Aerodigestive Team, Dr. Murray was an invited speaker on “The Altered Airway” at the Global Tracheostomy Collaborative in November 2018, and she taught the pediatric component of the first United States session of the international course.

Dr. Katie Kavanagh, the simulation education director for the University of Connecticut Otolaryngology residency, presented her simulation research at several national and international meetings. She was an invited simulation instructor at Boston Children’s Hospital and Johns Hopkins, and served as a speaker on an instructional simulation panel in Stockholm, Sweden.

Drs. Kavanagh and Murray hosted the American Academy of Otolaryngology – Head and Neck Surgery (AAO-HNS) and had its past-president, Dr. Sujana Chandrasekhar, as guest speaker at the annual Connecticut Women in Otolaryngology meeting.

Clinically, both Dr. Grindle and division head Dr. Scott Schoem have expanded their surgical practice of endoscopic middle ear surgery thereby minimizing operative time, decreasing healing time and reducing cholesteatoma recurrence.

On the research front, Drs. Grindle and Schoem, in collaboration with Dr. Nicholas Bennett from Infectious Diseases, have established Connecticut Children’s as a site for an NIH-sponsored,
multi-institutional study examining the effectiveness of valganciclovir to arrest congenital hearing loss caused by cytomegalovirus (CMV).

Dr. Schoem is currently editing the 2nd edition of Pediatric Otolaryngology for Primary Care, published by the American Academy of Pediatrics for pediatricians and family practice. Drs. Murray and Grindle have contributed chapters for the newest edition.

The division is pleased to announce two new physician hires in 2019. Dr. Nancy Grover will join our practice in April 2019. She trained at Rady Children’s Hospital in San Diego for her pediatric otolaryngology fellowship. Our previous UConn otolaryngology graduate, Dr. Amy Lawrason Hughes, will join us in August 2019. She performed her fellowship at Boston Children’s and is currently employed there.

**PUBLICATIONS**


**Firriolo JM, Nuzzi LC, Schmidberg LC, Lobow BI.** Perioperative ketorolac use and postoperative hematoma formation in reduction mammoplasty: a single surgeon experience of 500 consecutive cases. Plast Reconstr Surg. 2018: 142(5); 632e-8e.


**Book Chapter**


**STAFF**

**Scott Schoem, MD, Division Head**
Co-director, Cochlear Implant Program

**Christopher Grindle, MD**
Co-director, Cochlear Implant Program

**Katie Kavanagh, MD**
Director of Research

**Director, Medical Simulation**

**Director, Otolaryngology Residency Program**

**Nicole Murray, MD**
Site Director, Otolaryngology Residency Program

**Director, Aerodigestive Team**

**Rebecca Strong, APRN**

**Christine Harrington, PA-C**

**Lauren Schmidberg, PA-C**

**Morgan Denno, APRN**

**Elizabeth Oblon, APRN**
**The mission of the Pain and Palliative Medicine Division is to utilize our multidisciplinary expertise to alleviate pain and stress in children afflicted with acute, chronic or terminal illness.**

Highlighting our year has been the addition of new faculty members Richelle deMayo, MD, and Timothy LaVigne, PhD. Dr. deMayo is well known as the chief medical informatics officer for Connecticut Children’s but is spearheading the development of our Headache Clinic. She became board certified in Headache Medicine this year. Dr. LaVigne completed his PhD in psychology at the University of Vermont and joins us after completing his postdoctoral fellowship at Boston Children’s Hospital.

Several other innovations got off the ground in 2018. We opened our chronic headache program under the direction of Drs. deMayo and LaVigne. The clinic seeks to combine cutting-edge headache interventions with biobehavioral care to improve the lives of children suffering with chronic headache.

We also began our virtual reality program. A philanthropic donation provided 10 virtual reality goggles to be used across the institution to reduce procedural pain.

**Other important highlights and milestones for the division in 2018:**

Dr. Kalyani Raghavan earned the title of a certified yoga therapist from the International Association of Yoga Therapists.

Dr. Clare Riotte was named Volunteer Physician of the Year by the University of Connecticut School of Medicine.

Division head Dr. William Zempsky served on an FDA American Society of Hematology Panel on core outcomes in sickle cell disease. He also participated in an American Society of Hematology initiative to develop evidence-based guidelines in sickle cell disease.

**Ongoing Grants**

NIH/NIAMS R01 AR070474-01A1 – Kashikar-Zuck S. Multisite randomized clinical trial of FIT Teens for juvenile fibromyalgia. (Active: 06/21/2017 – 05/30/2022) Site PI: Jessica Guite, PhD. Co-Investigators: Dr. William Zempsky, Dr. Emily Wakefield.

M1 Mentoring Program – Connecticut Institute for Clinical and Translational Science. (Active: 07/1/2017 - 06/30/2020) PI: Dr. William Zempsky.


**PUBLICATIONS**


**STAFF**

**William T. Zempsky, MD, MPH, Division Head**

Richelle deMayo, MD
Timothy LaVigne, PhD
Eapen Mathew, MD
Kerry Moss, MD
Clare Riotte, DO
Kalyani Raghavan, MD
Emily Wakefield, PsyD
Taryn Hamre, APRN, DNP
Kim Kempner, APRN
In 2018, the Department of Pathology and Laboratory Medicine continued its mission of providing the highest quality laboratory services through excellence, innovation, integrity and concern for quality care provided to patients.

Although the majority of the members within the department provide services in Anatomic Pathology, there is a wide range of sub-specialization within that division. The MD/PhD staff in Anatomic Pathology has sub-specialization in Neuropathology, Cytopathology, Pediatric Pathology, Molecular Pathology and Dermatopathology. Additional members within Anatomic Pathology have specialty skills in organ systems for which there is no board certification. These include breast pathology, GI pathology, GU pathology, Gyn pathology, pulmonary pathology, head and neck pathology, and soft tissue tumors. Additionally there are several members of the department board certified in Hematopathology, providing support in Hematology and Hematopathology. Other staff members provide support in Transfusion Medicine. There also are PhD board-certified members in the following disciplines: Microbiology, Chemistry, Molecular Pathology/Cytogenetics and Immunopathology.

**Trends**
Implementation of newer molecular diagnostics, newer diagnostic assays, automation, and consolidation all are happening in many laboratories. Larger academic centers and those with cancer centers are implementing Next-generation Sequencing (NGS) assays to support targeted therapy and offer enhancement in diagnostic panels.

Physician-owned labs continue to open, and we have seen that trend in our region, too.

**Education**
The department remains committed to teaching the next generation of pathologists. We have residencies in AP/CP Pathology and fellowship positions that continue to be filled by highly qualified candidates. Graduates from the program continue to be successful in obtaining additional competitive fellowships and subsequently attaining attractive jobs.

**The Future**
Renovations in the histology lab were completed, and it opened early in 2018. The space also includes the immunohistochemistry lab, which allows us to evaluate consolidation of services across the Hartford HealthCare laboratories. To that end, a standardization committee has formed to include members from all HHC anatomic pathology labs. Standardization in Microbiology is ongoing, and space at Hartford Hospital is being evaluated for renovation and consolidation of microbiology services.

**PUBLICATIONS**


**STAFF**
Srinivas Mandavilli, MD, Department Chief
Fabiola Balarezo, MD, Director, Pediatric Pathology

Jaber Aslanzadeh, PhD
Richard Cartun, MS, PhD
Joseph A. DiGiuseppe, MD, PhD
Jonathan Earle, MD
Torsten Ehrig, MD
Mary Fiel-Gan, MD
Saverio Ligato, MD
Gregory S. Makowski, PhD, DABCC, FACP
Richard Muller, MD
William Rezuke, Jr., MD
Andrew Ricci, MD
Bradford Sherburne, MD
Xianyuan Song, MD/PhD
In the year 2018, Dr. Alan Babigian continued his time as the president of the Connecticut Society of Plastic and Reconstructive Surgeons. Division head Dr. Charles Castiglione co-edited a textbook, Complications in Maxillofacial Cosmetic Surgery, which was released in print in January 2018. Two of the division’s trainees were accepted into Plastic Surgery residency programs, and three more applied for next year.

The Plastic Surgery Department provides clinical services at the Connecticut Children’s Medical Center and at Hartford Hospital. Our surgical volume has remained stable, and includes all types of plastic and reconstructive procedures. Our plastic surgeons frequently collaborate with other surgical specialists, providing state-of-the-art multidisciplinary surgical care. Common surgical procedures performed include complex wound closures including flaps and grafts, craniofacial reconstruction, craniofacial fracture repair, cleft lip/palate reconstruction, breast surgery/reconstruction, body contouring, skin/soft tissue tumor excision/repair, upper extremity/hand surgery/reconstruction, and cosmetic surgery/non-surgical cosmetic procedures.

The multidisciplinary Craniofacial Team at Connecticut Children’s, co-directed by Dr. Castiglione of Plastic Surgery and Dr. Paul Kanev of Pediatric Neurosurgery, remains a center of excellence. The team provides comprehensive evaluation and treatment for patients of all ages with congenital or acquired deformities of the head and neck. Active team members come from many disciplines, including Plastic Surgery, Pediatric Neurosurgery, Pediatric Otolaryngology, Pediatric Dentistry, Orthodontics, Oral and Maxillofacial Surgery, Pediatric Development, Social Work, and Speech and Language Pathology. Surgeries for cleft lip and palate are the most common. Craniosynostosis reconstruction, performed by Dr. Castiglione of Plastic Surgery, and Drs. Kanev, Jonathan Martin, and Markus Bookland of Pediatric Neurosurgery, are also common. In addition, the multidisciplinary Craniofacial Trauma Team, under the leadership of Drs. Castiglione and Norman Cavanagh, provides cutting edge treatment for all craniofacial injuries at both Connecticut Children’s and Hartford Hospital.

Five plastic surgeons, Drs. Duff Ashmead, Alan Babigian, David Bass, James Piorkowski, and Steven Smith, are fellowship-trained hand surgeons, and perform all types of upper extremity and hand surgery. This includes trauma surgery, and reconstruction for acquired and congenital deformities. These surgeons also provide the majority of coverage for hand call at Hartford Hospital and Connecticut Children’s.

Plastic surgeons are very involved in volunteer activities including surgical mission trips. Drs. Babigian and Castiglione travel to Ecuador and perform many surgeries including burn reconstruction, hand surgery, ear reconstruction, and cleft lip/palate surgeries. Dr. Babigian is director of the Global Health Program at Hartford Hospital.

Education is a large component of the Plastic Surgery Department’s activities. Residents from General Surgery, Orthopaedic Surgery, Urology, ENT, Oral and Maxillofacial Surgery, and Emergency Medicine rotate on the service. Medical students also elect rotations on Plastic Surgery. Active teaching occurs during daily patient rounds, in the clinic/office setting, in the emergency room, in the operating room, and during planned teaching conferences. Several residents and medical students have expressed interest in a career in plastic surgery, and one resident and one student matched at premier plastic surgery residency programs in the past year. This brings the total to 53 of our residents and students who have moved on to Plastic Surgery since 1988 when Dr. Castiglione began practicing here. Several residents and medical students are involved in research projects with Drs. Babigian and Castiglione. In addition to publishing, Drs. Babigian and Castiglione have presented papers locally and regionally. Three presentations/posters were given at the 2018 annual meeting of the American Cleft Palate Association. Dr. Castiglione is the plastic surgery editor for Connecticut Medicine: the Journal of the Connecticut State Medical Society, and a reviewer for three journals; the American Journal of Cosmetic Surgery, Craniomaxillofacial Trauma & Reconstruction, and the Journal of Oral and Maxillofacial Surgery. Some department members are involved in local, regional and national professional societies. Drs. Castiglione and Delucia are members of the executive council of the Connecticut Society of Plastic and Reconstructive Surgeons, and Dr. Babigian is president. Drs. Babigian and Castiglione are members of the executive council of the New England Society of Plastic and Reconstructive Surgery.

In 2019, we look forward to the arrival of Dr. Christopher Hughes. He will join the division in August following completion of a Craniofacial Fellowship at Boston Children’s Hospital. Dr. Hughes graduated from Boston College, earned an MPH from Yale, and a medical degree from Loyola University. He completed five years of a Pediatric Surgery residency at UConn, and two years of Global Health research and three years of Plastic Surgery residency at Harvard.

**PUBLICATIONS**

Castillo R, Sheth K, Babigian A, Scola C. Recurrent carpal tunnel syndrome following surgical release associated with anatomical


**STAFF**

Charles L. Castiglione, MD, MBA, FACS, Department Chief

Brian Allen, MD
Duffield Ashmead, MD
Alan Babigian, MD
David Bass, MD
Alex Cech, MD
Orlando Delucia, MD
James Piorkowski, MD
Steven Smith, MD

Hartford HealthCare Medical Group staff:

Mindi Cieck, APRN
M. Eileen Auclair, PA-C
Paul C. Polzella, PA-C
Our mission is consistent with Connecticut Children’s: to improve the physical and emotional health of children. Our primary model to improve clinical care is through embedding psychological treatment in the care provided by subspecialty divisions. Many children’s hospitals use this approach to promote coping and positive outcomes for children with chronic illnesses. Integrating psychological treatment with medical care has been shown to produce positive outcomes.

The division continues to expand. Over the last year we added another full-time psychologist, Dr. Timothy LaVigne, to work in the Pain and Palliative Division, and a full-time psychologist, Dr. Lauren Ayr-Volta, joined the Hematology-Oncology Division. Dr. Ayr-Volta is also a trained neuropsychologist, which will provide patients, especially those with brain tumors, with better access to this important evaluation. Dr. Michael Reiss, who completed his fellowship year with the Pain Division, is now working part-time in the Weight Management Program. The Hematology-Oncology Division also welcomed another full-time psychologist, Dr. Siddika Mulchan, who moved to Connecticut from Florida.

These developments have been well received and supported by the hospital community, and we anticipate continued growth to patient populations that will benefit from psychological and behavioral health as part of their medical treatment.

The 2018-2019 training year includes two 12-month Psychology Fellowships, in the Pain and Palliative Care Division and inpatient Child Psychiatry Consultation/Liaison. Fellows provide advanced clinical treatment and receive additional training in research. We continue to train three Psychology pre-doctoral interns each year in inpatient and outpatient settings through our collaboration with the Institute of Living’s Academic Pediatric Association-approved training programs. All psychologists in the Pediatric Psychology Division provide teaching and supervision to these learners, as well as participate in continuing education for medical providers and learners.

Over the last year, our division has become an additional collegial home for psychologists working in primary care in East and West Hartford offices. Their work is made possible by a grant shared by Connecticut Children’s and the Village for Children and Families. Integrating behavioral health care in primary care settings is a growing trend across the country.
In addition to major publications, all members of the Division of Pediatric Psychology are active in presenting posters and presentations at national clinical and research meetings, and they are involved in academic and advocacy roles. A few highlights include:

- Bradley Jerson, PhD, was elected as clinical member-at-large for the Pediatric GI Special Interest Group of the Society of Pediatric Psychology.
- Lynelle Schneeberg, PsyD, presented at numerous Lunch & Learn sessions on sleep problems in children. She is frequently a media consultant on sleep problems, and has made appearances on NBC Connecticut and Fox 61. She also is a frequent contributor to blogs and podcasts.
- Melissa Santos, PhD, was elected to the board of directors for the Society of Pediatric Psychology. She also was selected to join the editorial board of the journal *Eating Behaviors*.

**PUBLICATIONS**


**STAFF**

Barbara Rzepski, PhD, Division Head
Lauren Ayr-Volta, PhD
Bradley Jerson, PhD
Timothy Lavigne, PhD
Christine Nunes, PsyD
Michael Reiss, PsyD
Melissa Santos, PhD
Lynelle Schneeberg, PsyD
Emily Wakefield, PsyD

**Fellows**

Elyse Rosenberg, PhD, Consultation/Liaison
Preeti Sandhu, PsyD, Pain and Palliative Division
The Division of Pulmonary Medicine strives to be a comprehensive regional resource for pediatric pulmonary disease, with commitments to expert patient care, patient and professional education, and clinical and basic research. This year’s highlights include expansion of our Pediatric Sleep Center, Severe Asthma Program, and multidisciplinary Aerodigestive Program, and identification of our Cystic Fibrosis Newborn Screening Program as the best in the country.

The Division of Pulmonary Medicine provides care for infants, children and adolescents with a variety of pulmonary diseases including asthma, apnea, bronchopulmonary dysplasia, cystic fibrosis, interstitial lung disease, neuromuscular disease, respiratory sleep disorders, and chronic respiratory failure. The division oversees a state-of-the-art pulmonary function laboratory that is capable of performing spirometry, body plethysmography, impulse oscillometry, methacholine challenge, cardiorespiratory adaptation, and exercise provocation testing in children. Simple spirometry and bronchodilator assessment also are performed at our satellite clinics.

Our Pediatric Sleep Center has grown under the leadership of Dr. Jay Kenkare to over 2,000 studies annually done at three sites in Hartford, Farmington, and Glastonbury. Our Behavioral Sleep Medicine program led by Dr. Lynelle Schneeberg continues to add tremendous value for our patient families and referring providers. Dr. Greg Morgan, a board-certified neurologist and sleep medicine specialist, continues to add his expertise in sleep study interpretation. The Severe Asthma Program takes an ecologic approach to children with asthma, combining intensive asthma education, medication adherence monitoring, communication with the school nurse, and screening by a care coordinator for additional resources and needs. We have successfully demonstrated a decrease in hospitalizations, emergency room visits and asthma exacerbations through enrollment in the program. The Aerodigestive Program, a multi-specialty venture with Gastroenterology, Otolaryngology, and Speech Therapy, also continues to grow with increased clinics and joint endoscopy procedures. Other specialty clinics include a joint Sickle Cell Pulmonary Clinic with Hematology-Oncology, a Severe Asthma Clinic, and the Central Connecticut Cystic Fibrosis Center. Our pediatric Cystic Fibrosis (CF) program is a national Top 10 center for patients being seen by multidisciplinary team members, and our CF Newborn Screening Program is ranked No. 1 nationally by the Cystic Fibrosis Foundation for the lowest median age for diagnosis of CF in infants with positive newborn screening.

Members of the division contribute to the education of medical students and residents, respiratory therapists, and nursing APRN students from Yale. Division head Dr. Craig Schramm is a member of the University Center for Excellence in Developmental Disabilities at the University of Connecticut Health Center. Dr. Gregory Simoneau, director of our Severe Asthma Program, is principal investigator of a Patterson Trust Mentored research award for a collaborative research study with Jackson Laboratories for Genomic Medicine in Farmington, CT, on the identification of long non-coding RNA biomarkers in allergic asthma. She has received a Cigna Foundation Grant to create electronic versions of the evidence-based Easy Breathing© and Easy Breathing for Schools programs in an effort to provide integrated care that is easier for clinicians to utilize. Dr. Simoneau is also site-PI for two NIH-funded multicenter studies: Controlling and Preventing Asthma Progression and Severity in Kids (CASK), and Preventing Asthma in High-Risk Kids (PARK). Our Cystic Fibrosis Center director, Dr. Craig Lapin, serves on the Cystic Fibrosis Foundation Partnership of Care Committee, and center co-director Dr. Melanie Collins is the Connecticut representative to the Cystic Fibrosis Foundation Special Interest Group on newborn screening.

Clinical research projects conducted over the past year included participation in multicenter trials looking at long-term effectiveness and safety of lumacaftor/ivacaftor and at patient-reported gastrointestinal symptoms in patients with cystic fibrosis. Collaborative research projects focused on microbiological research in cystic fibrosis with Quinnipiac Medical School, and weaning of supplemental oxygen in infants with bronchopulmonary dysplasia with Boston Children’s Hospital. Additional basic science research addressed microbiome modulation of airway immunological tolerance with the Department of Immunology and microRNA expression in asthmatic airways with the Jackson Laboratory.

PUBLICATIONS


STAFF
Craig Schramm, MD, Division Head
Melanie Sue Collins, MD
Keith Dixon, MD
Umit Emre, MD
Jay Kenkare, MD
Craig Lapin, MD
Anne McLaughlin, MD
Greg Morgan, MD
Lynelle Schneeberg, PsyD
Natalie Shilo, MD
Tregony Simoneau, MD
Tracey Allen APRN, NP-C
Rosalynn Bravo-Cavoli, APRN, AE-C
Amanda Filippelli, APRN, AE-C
The Division of Radiology provides a full spectrum of imaging services as well as minimally invasive image-guided procedures to all clinical divisions at Connecticut Children’s Medical Center. The department is an “Image Gently” facility using strategies to minimize radiation to our patients while utilizing best practice standards and appropriateness criteria to best evaluate children.

Imaging modalities range from digital radiography to complex magnetic resonance imaging. The department is accredited through the American College of Radiology in Ultrasound, CT and MRI. Nuclear Medicine services are provided through collaboration with Hartford Hospital. Image-guided procedures are provided through collaboration with physicians from Jefferson Radiology and Hartford Hospital in Interventional Radiology and Interventional Neuroradiology. With support from the divisions of Anesthesia and Sedation Services, more image-guided procedures are being performed on site at Connecticut Children’s allowing for less disruption of care in a safer environment. Jefferson Radiology provides the department's 24/7 coverage of reading studies.

The Department of Radiology has seen major replacements and upgrading of imaging equipment over the past several years. Most basic imaging is performed with state-of-the-art digital radiography rooms, which allow for better plain film imaging with approximately 40 percent radiation dose reduction than conventional radiography. The department has newer ultrasound units allowing for superior imaging in a modality that is well suited to our pediatric population. A new Siemen’s Sequoia unit was obtained in 2018 with planned expansion of ultrasound services to include soft tissue elastography and contrast-enhanced ultrasound procedures. Because of increasing demand for ultrasound services, hours of routine operation have been extended to midnight on weekdays and on weekends. Fluoroscopy is done using a Siemen’s flat-panel fluoroscopy unit with pulsed fluoroscopy, which allows for significant radiation dose reduction with improved image quality. These upgrades support the philosophy of the department as an “Image Gently” and “Step Gently” facility to provide appropriate imaging while reducing as much as possible the effects of ionizing radiation. The Sedation Service and Department of Anesthesia offer outstanding resources to help children through difficult and lengthy imaging studies as well as image-guided procedures. Child Life provides support in the department for children undergoing difficult procedures as well.

There are plans for a major upgrade to the department in 2019. A 3T MR unit will be installed with redesign of the physical space providing for an additional ultrasound room and a larger updated reading room to accommodate increasing numbers of staff and learners.

The Department of Orthopaedics relocated to the Bone & Joint Institute and is supported there by the Department of Radiology. A new EOS® unit allows for low dose evaluation of spine and limb alignment.

Dr. Shanshan Bao joined the department this past year and brings expertise in Body MR imaging. She completed a fellowship in Pediatric Radiology at Stanford University. Dr. Bao is involved in a multicenter initiative to evaluate the effects of iodinated contrast agents on thyroid function in infants.

Dr. Douglas Moote is collaborating with Dr. Jeffrey Hyams in the Division of Digestive Diseases, Hepatology and Nutrition to support ongoing multicenter grant-funded research evaluating the impact of MR imaging of children with inflammatory bowel disease.

The Division of Radiology provides resident education in Pediatric Radiology to radiology residents from the UConn School of Medicine, Hartford Hospital, and the Hospital of St. Vincent in Bridgeport, CT. Pediatric residents and medical students from the University of Connecticut are invited to attend elective rotations in the department. The radiology attendings provide didactic lectures to the radiology and pediatric residents as well as case review sessions. Teaching and clinical care conferences are held in collaboration with divisions of Pulmonary Medicine, Digestive Diseases, Endocrinology, General Surgery, Hematology-Oncology, Orthopaedic Surgery, and Urology, as well as the NICU and PICU. Work conferences are provided weekly to the Pediatric house staff.

PUBLICATIONS


Lam J, Coughlin R, Buhl L, Herbst M, Herbst T, Martilliotti J, Coughlin B. Emergency medicine summary code for report-


STAFF

Timothy Brown, MD, Division Head
Douglas Moote, MD, Division Medical Director
Shanshan Bao, MD
Frederick Conard, MD
Michael Hallisey, MD
Josh Kallen, MD
Martin Ollenschleger, MD
Steven Poole, MD
Ron Rosenberg, MD
Gregory Wrubel, MD
David Zimmerman, MD
The mission of the Division of Research is to conduct and catalyze high-impact, internationally recognized research and policy work that improves the health, health care, well-being, and population health of infants, children, adolescents, and communities.

The Division of Research accomplishes its mission through several mechanisms: 1) conducting research on improving the health and health care of children; 2) providing a cutting-edge research infrastructure to support all Connecticut Children’s investigators, including research support staff, a statistical core, grant-writing assistance, and expert input on research operations and management; 3) mentoring early investigators, including high-school students, undergraduates, medical students, residents, fellows, and junior faculty; and 4) disseminating and publicizing the research findings of Connecticut Children's investigators. The division is staffed by more than 50 highly skilled professionals, including expert research associates, divisional research managers, certified study coordinators, and experienced sponsored-program administrators and analysts. Connecticut Children's research portfolio is supported by grants from a variety of federal funders (the Department of Health and Human Services, the National Institutes of Health, the Centers for Disease Control and Prevention, and the National Science Foundation), state agencies (Connecticut Department of Public Health, and Connecticut Department of Children and Families), foundations (Alvord Foundation, JPB Foundation, and the Lego Children's Fund), philanthropy, and the pharmaceutical industry. Connecticut Children's has robust research collaborations with UConn Health, UConn Storrs, and the Jackson Laboratory for Genomic Medicine. The University of Connecticut Technology Incubator Program is the home of a lab and team under the direction of Dr. Christine Finck, surgeon-in-chief, which consist of Dr. Rishikesh Pandey, and staff who include Todd Jensen, Lisa Kuhn, Kelly Burke, and Ishna Sharma.

There were several noteworthy 2018 achievements and recruitments for the Division of Research, including the translation of research into federal legislation, competitive renewal of a major grant from the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), multiple high-profile national and international presentations and keynote speeches, participation in research training programs for undergraduates and local high-school students, and publication of 17 articles and book chapters.

Dr. Flores’s NIH R01-funded research on insuring uninsured children, the Kids’ HELP trial, resulted in him drafting 2018 legislation which was introduced by Congressman Ben Luján (D-NM) and signed into law by Congress and President Donald Trump in January 2018, as part of Children's Health Insurance Program (CHIP reauthorization). This legislation (https://docs.house.gov/billsthisweek/20180115/BILLS-115SAHR195- RCP115-55.pdf) makes organizations that use Parent Mentors eligible to receive $120 million in grants for CHIP outreach and enrollment. This resulted in Dr. Flores consulting in 2018 for the Centers for Medicare and Medicaid Services (CMS) on releasing a new national request for applications on accessing this $120 million funding stream, and he will provide guidance to CMS on how to implement Parent Mentor programs in all 50 states and the District of Columbia. The most recent findings from the Kids’ HELP trial were published in the March 2018 issue of Health Affairs.

Dr. Flores continued his national leadership role as principal investigator and director of the NIDDK/Academic Pediatric Association (APA) Research in Academic Pediatrics Initiative on Diversity (RAPID), a program funded by an NIDDK R25 grant which was just competitively renewed for another five years (through 2023, for a total of 11 years), and that includes both a research project, and career and leadership development activities for young investigators across the United States who are from an underrepresented minority group or who are disabled or from a socially, culturally, economically, or educationally disadvantaged background. Dr. Flores also delivered the following 2018 national and international presentations:

- Parent Mentoring Program Increases Coverage Rates for Uninsured Latino Children. Advancing Health Equity, Health Affairs Issue Briefing, National Press Club, Washington, DC.
- Racial/Ethnic Disparities in the Health and Healthcare of

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- Parent Mentoring Program Increases Coverage Rates for Uninsured Latino Children. Advancing Health Equity, Health Affairs Issue Briefing, National Press Club, Washington, DC.
- Racial/Ethnic Disparities in the Health and Healthcare of
Dr. Zhu Wang served as an ad hoc reviewer for the National Institutes of Health’s Health Services Organization and Delivery (HSOD) study section, which reviews federal grant applications that focus on the organization, delivery, and utilization of health care services, as well as health outcomes specifically related to health services.

Katherine Herbst presented an educational session, “How to Write a Clinical Research Protocol,” at the European Society for Paediatric Urology 29th Congress in Helsinki, Finland. Ms. Herbst also delivered a presentation in a panel discussion, “They Say Most Clinical Research Is Wrong – Is It Still Worth Doing?” at the Societies for Pediatric Urology Fall Congress in Atlanta, GA.

Our Clinical Trials Unit (CTU) experienced substantial growth this year, with the number of clinical trials increasing by 50 percent, and clinical trials income increasing over 40 percent, reaching over $1 million for the first time in CTU history. CTU provides support for the entire clinical-trial cycle, from site selection to study close-out. CTU also supports R01, R21, and principal-investigator-initiated studies, investigational new-drug studies, and investigational device exemptions, both in developmental and coordination phases. In close collaboration with the Office for Grants & Sponsored Programs, CTU staff help to develop budgets, contracts and conduct negotiations for both grant- and industry-supported studies. CTU has an experienced and dedicated team, consisting of 26 staff providing support and management for more than 165 clinical trials in 19 divisions. In 2018, the unit brought in $1,277,121 in funding for these trials.

The Division of Research also substantially strengthened the research infrastructure for investigators at Connecticut Children’s, with the recruitment of three new staff. We welcomed Dr. Bruce Lacey, our new full-time grant writer, to our team. Dr. Lacey has over seven years of medical research grant-writing experience, with the previous procurement of over $12 million in grant funding. Since his arrival at Connecticut Children’s, he has participated in the submission of 17 federal and foundation grant applications, with eight currently in process.

The expansion of our biostatistical core was a priority in 2018. We welcomed Maua Mosha, MPH, who came to us from Yale University, where she was a biostatistician and data manager for the Yale AIDS program for the past 10 years. Her expertise in study, database development, and biostatistics complements the skill set of our senior biostatistician, Dr. Zhu Wang, creating a comprehensive statistical-support team. Together, they initiated a web-based statistical-support request portal. They also inaugurated a biostatistical series consisting of six classes offered bi-annually to investigators, trainees, and staff. In 2018, our biostatistical core supported over 55 investigators and 40 studies, greatly contributing to research productivity at Connecticut Children’s. This increased productivity was perhaps best manifested by a 27 percent rise in published peer-review manuscripts, from 143 in 2017, to 182 in 2018.

We also welcomed Willie Frazier, III, MPH, as research program manager. He obtained his undergraduate degree from Virginia Tech, and a master’s of public health from the University of Massachusetts, Amherst. He joined us after spending several years as a research associate at the UConn Rudd Center for Food Policy and Obesity. He will manage research, programs, and community outreach for Dr. Flores, as well as assist trainees with their research.

The Division of Research additionally initiated collaborations with two area pipeline programs. We hosted and mentored two summer students through the UConn Partnership for Innovation and Education (PIE), whose goals are to help build Connecticut’s future health and technology workforce and to encourage bioscience commercialization in the state. PIE consists of a mentored 10-week summer research fellowship in bioscience and technology for college undergraduates and graduates. Both PIE students are continuing their summer projects during their school year. We also established a new relationship with the Sports and Medical Sciences Academy (SMSA), a Hartford magnet high school. We hosted and mentored seven SMSA high-school students who will be presenting their research findings at the annual SMSA science fair and STEM Conference.

Connecticut Children’s Technology Incubation Program laboratories continued to make progress in developing label-free cell imaging and new medical devices for children. Promising preliminary data have been obtained on label-free cell imaging for the diagnosis and treatment of childhood leukemia. In addition to addressing label-free imaging, a team of researchers led by...
Dr. Christine Finck continues to work on the development of a prototype medical device aimed at reducing the number of procedures and complications associated with surgical correction of esophageal atresia. A provisional patent has been filed for the device design this year, with the plan to file a full patent application by spring 2019.

PUBLICATIONS


Clinical Trials Unit
Kim Jennings, Senior Manager
Robin Arens, Lead Clinical Trials Associate, Hematology/Oncology Division
Alexandrea Buscarello, Clinical Research Assistant
Erin Bennett, Clinical Research Associate
Kathy Dahlberg, Clinical Research Associate
Monika Dambrosa, Clinical Research Associate
Iris Ferrecchia, Clinical Research Associate
William Galdi, Clinical Research Associate
Jocelyn Gasuk, Senior Clinical Research Facilitator
Kristine Hauser, Clinical Research Facilitator
Dayna Kennedy, Clinical Research Associate
Ashley Kosikowski, Clinical Research Assistant
Bunly Kuoch, Clinical Research Assistant
Lisa Little, Regulatory Specialist
Hendriana Nielsen, Clinical Research Facilitator
Vikki Palmer, Clinical Research Facilitator
Krystal Perez, Clinical Research Assistant
Jennifer Querim, Clinical Research Associate
James Ransom, Clinical Research Associate
Traci Resler, Program Coordinator
Katalin Ross, Metabolic Dietitian
Tiffany Ruiz, Clinical Research Facilitator
James Santanelli, Clinical Research Associate
Jennifer Twachtman-Bassett, Research Coordinator, Autism Specialist

STAFF
Glenn Flores, MD, FAAP, Division Director, Chief Research Officer, and Associate Chair of Research
Stephanie Johnson, MT (ASCP), MPH, Director, Research Operations
Katherine Herbst, MS, Manager, Urology and Nephrology
Alan Ahlberg, Research Associate
Mary Ann Banevicius, Research Associate
Melinda Carpenter, Research Associate
Bridgette Carter, Research Associate
Danielle Chenard, Research Program Manager
Willie Frazier, III, Research Program Manager
Brenda Labbe, Administrative Assistant
Bruce Lacey, PhD, Grant Writer
Ji Hyun Lee, MD, MPH, Instructor, Research Scientist
Maua Mosha, Biostatistician
Rosa Rodrigues, Research Associate
Rosalie Lyons, Research Associate
Kathleen Sala, Research Associate
Sefali Thaker, Research Associate
Zhu Wang, PhD, Associate Professor, Senior Biostatistician
The Division of Pediatric Rheumatology provides comprehensive, family centered care for children with rheumatic disease, chronic pain syndromes, and Lyme disease, at four sites throughout Connecticut.

The mission of the division is to provide the best clinical care possible to children with rheumatic disease, teach trainees the basics of the field, and enroll patients in clinical trials or collaborative research projects when applicable.

We continue to run a high volume practice. During 2018, we saw patients in five locations: Connecticut Children’s Medical Center in Hartford, and our satellite locations in Shelton, Glastonbury, and Stamford, CT, and Springfield, MA.

Our total number of patient visits across all locations for the year was 3,350, a number that includes 1,250 new visits. Joint injections numbered 150; discrete infusion patients, 81; and inpatients, 76.

The Division of Rheumatology collaborates with the Sedation service around procedures, Orthopaedics for overlapping disorders, Digestive Diseases, Hepatology and Nutrition for infusions and drug toxicities, Hematology-Oncology for disorders that span both specialties, Nephrology for lupus and vasculitis, Infectious Diseases for Lyme disease, and the Pain and Palliative service for children with amplified pain disorders such as fibromyalgia. The division fully utilizes the resources of the hospital, since many of the patients have multisystem disease or complex psychosocial problems.

The division provides critical education to trainees, since the outpatient rotation is often the only exposure pediatric residents have with rheumatic disease. Trainees include pediatric residents, third and fourth year medical students, and adult rheumatology fellows from the University of Connecticut.

Under the leadership of Dr. Lawrence Zemel, Connecticut Children’s Division of Rheumatology continues to offer a Comprehensive Lyme Disease Program. It is the only one of its
kind in the country. The program is a unique resource for families and for referring providers who see patients with complex issues surrounding Lyme disease diagnosis and treatment. Several clinical trials were conducted during 2018.

In 2018, Rheumatology staff members served on several national committees. Dr. Zemel continues as chair of the arthritis subcommittee for the National Guideline Committee to Revise Lyme Disease Diagnosis and Treatment Standards. Publication is expected in July 2019. Dr. Heather Tory was appointed as chair of the Juvenile Dermatomyositis Quality Measures Subcommittee for the Childhood Arthritis and Rheumatology Research Alliance, and she is a member of the Quality Measures Subcommittee of the Quality of Care Committee for the American College of Rheumatology.

Division members participate in a wide range of Connecticut Children’s committees. Dr. Barbara Edelheit is a member of the Public Policy Council and the Physician Engagement and the Physician Well-Being committees, among others. Dr. Tory is co-chair of the Connecticut Children’s Specialty Group Quality and Safety Committee, chair of the medical center’s Emergency Response Committee, and co-chair of its Career Development Committee. She is acting as interim head of the Division of Quality and Safety until a full-time replacement is found.

Looking ahead to 2019, we recruited a fourth pediatric rheumatologist, Dr. Blaine Lapin, who finished his fellowship in pediatric rheumatology at Texas Children’s Hospital, and will be starting at Connecticut Children’s in September 2019. We recently hired a 0.5 FTE psychologist, Dr. Christine Nunes, who will be providing mental health services to our patient population in our rheumatology clinic. We will be expanding services in Fairfield County, including the new facility in Danbury, and the proposed facility in Westport. We will be working closely with several other disciplines in providing support for our new infusion center in Farmington. Dr. Zemel will be writing a revised chapter on Lyme disease in a major textbook, Textbook of Pediatric Rheumatology.

PUBLICATIONS


STAFF

Lawrence Zemel, MD, Division Head
Barbara Edelheit, MD
Heather Tory, MD
Blaine Lapin, MD
Christine Nunes, PhD

Ann Wrynn, RN
Tegan Willard, RN


The Center of Procedural Excellence (CoPE) is a six-bed unit within Connecticut Children’s Medical Center dedicated to providing high-quality procedural sedation for pediatric patients. This is one of only a few centers in New England with space and staff dedicated to non-operating-room pediatric sedation. The CoPE was opened in March 2016 with generous donations from the Connecticut Children’s Foundation and the UConn HuskyThon. The Sedation Service provides comprehensive high-quality care with a focus on the patient and family experience. In 2014, prior to having dedicated space for non-operating-room sedation, the service cared for about 500 patients annually with a staff of one full-time physician and two nurses. To meet continued demand, we now have expanded to four physicians, nine full-time nurses with credentialing in sedation, one medical assistant, and a full-time child life specialist.

The Sedation Service works with nearly all subspecialties within Connecticut Children’s to provide sedation for painful procedures including: bone marrow aspiration/biopsy in Oncology patients, kidney biopsies for Nephrology, imaging for Radiology, catheter placement and minor surgical procedures for Urology and Surgery, central line placement for the PICC line service, and vaccination/lab draws for patients with autism spectrum disorders. Our service utilizes a mixture of intravenous, oral, and inhaled sedative agents to provide mild to deep sedation, scaled to meet the developmental and procedural needs of each patient.

We are humbled by our high commendations from patients and families, a testament to our continued efforts to develop a family centered approach to care delivery. To that end, associate medical director Dr. Kalyani Raghavan continues to develop strategies to serve the needs of our patients with autism spectrum disorders. Working with colleagues in Developmental Pediatrics at Connecticut Children’s and with state and national experts, Dr. Raghavan has developed social stories to help prepare patients and families for their procedural sedation. These social stories are available online and can be viewed by families to prepare...
their child for the visit to Sedation. Dr. Raghavan has received grant funding from Autism Speaks® and other outside foundations to continue her very important work. Further developing her expertise in alternative approaches to management of pain and anxiety, Dr. Raghavan was certified as a yoga therapist by the International Association of Yoga Therapists. To help families prepare for their visit, our child life specialist is also available to call families prior to their visit to help develop individualized approaches with the family’s input.

Members of the Sedation Team are involved in leadership and committees at Connecticut Children’s. Dr. Leonard Comeau is chairperson of the Sedation and Analgesia Committee and is responsible for writing and updating sedation policies, updating and overseeing credentialing of the house staff, and monitoring safety and quality of sedation hospital-wide. Members of the Sedation Service also participate on hospital committees on pain management, the patient and family experience, pediatric palliative care, and quality and safety. Dr. Kathy Kalkbrenner was appointed as clinical director of the Division of Hospital Medicine and received the Annual Faculty Award for Excellence in Teaching in 2018.

Education and research remain a significant part of our mission. Faculty-led research has explored the degree of parent and nursing satisfaction with the use of mild sedatives for Emergency Department procedures. In collaboration with colleagues in Rehabilitation Medicine, we studied the safety of deep sedation for procedures to manage spasticity in patients with cerebral palsy. Members of our nursing team, Kim Paula-Santos and Fiona Sellew, were awarded a competitive Nursing Research Fellowship to study the use of the sedative dexmedetomidine for use in sedated hearing screens. Our educational commitment remains strong. Every UConn Pediatric and Emergency Medicine intern (35 per year) spends a week on a dedicated Sedation rotation. Residents participate in all aspects of patient care, are given hands-on training in airway management, and become credentialed to independently provide moderate sedation.

Our mission is to provide the highest quality care for children undergoing tests and procedures outside the operating room. We aim to utilize not just sedation medications but distraction techniques, alternative therapies, and a family centered approach to minimize anxiety and unnecessary pain and discomfort for our patients.

**PUBLICATIONS**


**STAFF**

Jesse Sturm, MD, MPH, Division Director

Kalyani Raghavan, MBBS, MD, DCH

Kathy Kalkbrenner, MD

Leonard Comeau, MD
The mission of the Pediatric Surgery Division is to provide the highest quality family centered surgical care. The year 2018 was characterized by growth in volume and staff. Among the significant achievements of our members, Dr. Brendan Campbell, the medical director of Pediatric Trauma Program, emerged as a unique and compelling voice in the national debate on gun violence. In addition, Dr. Christine Finck, Connecticut Children’s Surgeon-in-Chief, Pediatric Surgery division head, and Peter Decker Endowed Chair, was awarded a $1.2 million NIH grant for her work in tissue engineering as well as the Women in Innovation Award from the Connecticut Technology Council.

Clinical Care
The Division of Pediatric Surgery offers a full range of clinical services for patients from newborns to young adults. This includes prenatal consultations, the treatment of congenital anomalies, head and neck surgery, surgery of the chest and abdomen, pediatric gynecology, non-reconstructive urology, surgical oncology, and trauma. Under the leadership of Dr. Campbell, who holds the Donald W. Hight Endowed Chair, Connecticut Children’s earned reverification by the American College of Surgeons as a Level I Pediatric Trauma Center in 2017, a verification that lasts for three years.

Satellite offices are currently available in Farmington, Glastonbury, and Danbury that allow increased convenience for our families. Outpatient surgery is also performed at the Connecticut Children’s Ambulatory Surgery Center in Farmington as well as at Danbury Hospital. Urgent care, including same-day access to our Hartford office for emergent and urgent surgical problems, is available. This can avoid an emergency room visit.

Dr. Christine Rader remains surgical director of the Extracorporeal Membrane Oxygenation Program, which cares for some of the sickest patients in the hospital who require cardiopulmonary life support. The Multidisciplinary Thyroid Group, led by Drs. Finck, Pediatric Surgery’s medical director Richard Weiss, and Rebecca Riba-Wolman, enables children with thyroid diseases to be rapidly and simultaneously evaluated by a surgeon as well as an endocrinologist. The Multidisciplinary Prenatal Evaluation Program continues to be co-directed by Dr. Weiss. This program is a joint effort with the divisions of Obstetrics and Maternal Fetal Medicine at Hartford Hospital, as well as multiple medical and surgical divisions at Connecticut Children’s.
The Bariatric Surgical Program under the leadership of Drs. Finck and Meghna Misra has been joined by the Weight Management Program under the leadership of Drs. Melissa Santos and Jessica Zimmerman. This program is comprehensive in delivering medical and surgical care and allows patients and their families to be evaluated in one location by multiple disciplines. In addition, the program has launched transition planning to enable young adults to obtain care from adult providers when the time is right. The Chest Wall Deformities Program, led by Dr. Misra, continues to evaluate and treat patients with pectus excavatum and pectus carinatum. This year, Dr. Misra published in the *Journal of Laparoendoscopic and Advanced Surgical Techniques* on the comparison of subcutaneous catheters vs. epidural catheters in the management of pain in these patients.

Dr. Rader provides surgical expertise to the Short Gut Program. She also provides pediatric surgical expertise to the Aerodigestive Program.

**Advocacy**

Dr. Campbell, MD, MPH, FACS, continues to be involved as a leading voice regionally and nationally in advocating for a new approach to the prevention of firearms injuries. Throughout 2018, he served on the American College of Surgeons Committee on Trauma (ACS COT) Firearm Strategy Team (FAST) Workgroup, a geographically diverse team of 18 American surgeons who are passionate firearm owners with a broad range of experience with firearm ownership and use. Charged with creating an effective and durable strategy for reducing firearm injury, death, and disability in the United States, the team issued 13 recommendations in a major article published by the *Journal of the American College of Surgeons.* The article drew significant attention from national media sources, and Dr. Campbell was subsequently interviewed on CNN and by State Media. Furthering his and his surgeon-colleagues’ efforts to foster constructive dialogue and “treat” the problem of gun violence in America, Dr. Campbell lectured on various topics concerning gun violence and firearm injuries at national events including the Trauma Quality Improvement Program Annual Scientific Meeting in Anaheim, CA, the American College of Surgeons Clinical Congress in Boston, MA, and the 77th Annual Meeting of the American Association for the Surgery of Trauma in San Diego, CA. Also this year, Dr. Campbell was appointed vice chair of the Injury Prevention and Control Committee for the American College of Surgeons Committee on Trauma. Locally, Dr. Campbell continues to lead efforts by the division and the hospital in the American College of Surgeons’ Pediatric National Surgical Quality Improvement Program (NSQIP), which has been highly successful in improving the quality of children's surgical care. He has been named co-chair of the Public Safety Transition Committee for Connecticut Governor-elect Ned Lamont. Additionally, he was awarded a $5,000 seed grant for 2018 and 2019 as PI for a study of the evaluation of an Intimate Partner Violence Screening Intervention Model.

Dr. Finck along with resident Ishna Sharma, MD, contributed research on Intimate Partner Violence that is included in the Fundamentals of Surgery Curriculum for the American College of Surgeons.

Dr. Weiss continues as an ex officio member of the American Pediatric Surgical Association (APSA) Practice Committee, which monitors the practice of pediatric surgery in North America, reports trends in practice patterns, and offers guidance to APSA members for improvements and optimization of care delivery. In 2018, he was appointed as an advisor for the American Pediatric Surgical Association to the AMA/Specialty RVS Update Committee (RUC).

**Education**

One of the core missions of the division is to educate future physicians, and it has offered a pediatric surgery fellowship since 2012. Katerina Dukleska, MD, will join the division in August 2019. She will arrive after completing the General Surgery residency program at Thomas Jefferson University Hospitals in Philadelphia.

Dr. Rader is the site director for the University of Connecticut General Surgery Residency Program. Surgical residents from the University of Connecticut, Stamford Hospital, Waterbury Hospital, and Saint Mary’s Hospital rotate through our service. Pediatric residents continue to spend time on our service. Quinnipiac University medical students in their third year continue to utilize our service for their inpatient pediatric rotation. Electives also are provided to third and fourth year medical students from the University of Connecticut.

Drs. Weiss, Rader, and Campbell teach an Advanced Trauma Life Support (ATLS) course to UConn house staff, community physicians and advance practice providers twice a year.

Division staff contributed on a national level with presentations at a variety of meetings including the American Pediatric Surgical Association, the American College of Surgeons, and the Connecticut Chapter of the American College of Surgeons.

**Research**

Dr. Finck’s laboratory work focuses on innovation and tissue engineering of organs including the lungs and the esophagus. Over the last year, the laboratory has engaged in pre-clinical trials around an implantable scaffold to repair the esophagus. The NIH awarded this project $1.2 million to continue research in collaboration with a small company, Biostage, based out of Boston.

The division continues its participation in a national multicenter study to determine the timing of inguinal hernia repair in premature infants. The principal investigator is Dr. Misra. The division is active in other IRB-approved studies as well as health services research, injury prevention research under the leadership of
Dr. Campbell, and basic science research from the lab of Dr. Finck. Dr. Sharma, who joined us in July 2017 as the first Peter Decker Surgical Research Fellow in the lab, has won several innovation awards for basic science research.

The Future
Our longtime colleague and former Physician-of-the-Year Michael Bourque, MD, retired this year, but he continues to take on-call responsibilities intermittently until our new staff members join the division. We are delighted to announce that James Healey, MD, who will complete our Pediatric Surgery Fellowship program in July 2019, is taking a staff position in August 2019. We are actively recruiting another surgeon to round out our team in 2019. Other plans for 2019 include increasing the division's presence in Fairfield County.

PUBLICATIONS


STAFF
Christine Finck, MD, FACS, Surgeon-in-Chief, Division Head
Michael Bourque, MD, FACS
Brendan Campbell, MD, MPH, FACS, Medical Director Pediatric Trauma Program; Chief Surgical Quality and Safety Officer
Donald W. Hight, MD, emeritus
George McGowan, MD, emeritus
Meghna Misra, MD, MS, FACS, Director, Pectus Program
Christine Rader, MD, FACS, Surgical Director, Extracorporeal Membrane Oxygenation Program
Ishna Sharma, MD, research fellow
Shefali Thaker, BA, research associate
Richard Weiss, MD, FACS, Medical Director, Pediatric Surgery Division
Sandy Purcell, APRN
Morgan D’Antuono, PA
Nicole Boone, PA
Samantha Pelow, APRN
Jeanette Rybski, APRN
Elisabeth Campbell, PA

Fellows
James Healy, MD
In 2018, the Division of Renal Transplant at Connecticut Children’s enjoyed substantial growth. Working closely with the divisions of Pediatric Surgery and Nephrology, the pediatric kidney transplant program increased surgical cases and saw stellar clinical outcomes. The division welcomed Oscar Serrano, MD, who took on the role of main transplant surgeon for pediatric renal cases.

The Renal Transplant Division has a strong quality commitment. Each program has a quality indicator dashboard as well as a process improvement dashboard that tracks PI projects such as revisions of policies, decreasing infections, and developing algorithms to improve patient care. Specifically, a steroid-free protocol was created to be on the cutting edge of therapies offered to children in the country. The year 2018 also marked the achievement of three renal transplants with successful use of our steroid-free protocol.

STAFF
Patricia Sheiner, MD, FACS, Division Director
Carolyn Rochon, MD
Oscar Serrano, MD
Brian Shames, MD

The Pediatric Urology Division provides comprehensive urologic care. In 2018, the service remained busy with 5,697 visits and 745 operative cases. The division continues to provide interdisciplinary specialty clinics with Pediatric Nephrology and Endocrinology services. These include: GUPPE Clinic for patients with disorders of sexual development, ROCKS Clinic for patients with kidney stones, Prenatal Clinic for patients noted to have urologic conditions on prenatal ultrasound, and PUV Clinic for patients with posterior urethral valves. We also offer a Voiding and Bladder Dysfunction Clinic for the management of neurogenic bladders and non-neurogenic voiding issues. Finally, we are in the process of developing a Spinal Defects Clinic for patients with congenital as well as acquired spinal disorders. Dr. Anne Dudley continues to build her practice and has been a productive academician. Drs. Adam Hittelman and Israel Franco continue to work with us as part of our ongoing academic collaboration with Yale New Haven Hospital. Our research coordinator Katherine Herbst, MSc, continues to be a nationally recognized figure in the Pediatric Urology community and has had a very productive academic year.

Division Changes
The year 2018 was a time of stabilization in the Division of Urology. In August, we welcomed Dr. Courtney Rowe as a junior faculty member. Her practice will be 50 percent academic and 50 percent clinical. She is a recent graduate of the Pediatric Urology Fellowship at Seattle Children’s Hospital. She comes from a distinguished background having graduated from Brown University as an undergraduate then completing a Harvard University Urology Residency. Interestingly, before medicine, she was an artist in New York City.

PUBLICATIONS


STAFF
Carlos Medina, MD, Division Head
Jill Bernstein MD, FAAP
Anne Dudley, MD
Israel Franco, MD, FAAP, FACS
Adam Hittelman, MD
Howard Hochman, MD
Courtney Rowe, MD
Katherine Herbst, MSc
The Pediatric Residency program continued with its uninterrupted record of full, continuing accreditation, with no areas of concern or citations from the Pediatric Review Committee of the Accreditation Council for Graduate Medical Education (ACGME).

The program continued to successfully recruit high-quality residents. Entering residents had an average of 2.9 scholarly activities and 7.9 community service activities prior to matching. Graduates were, once again, placed in competitive fellowship programs and outstanding practices. The program first-attempt pass rate on the American Board of Pediatrics certifying examination increased once again, and it is comfortably meeting the required pass rate for accreditation. ACGME surveys and program surveys of faculty and residents were notably positive, but they also provided the identification of areas of focus for program development.

**Program improvements were planned and implemented during the year:**

In response to the requirement to have faculty and residents aware of key indicators of the quality of care for the populations they serve, metrics were identified, tracked and distributed to residents and faculty for Connecticut Children’s inpatient services and ambulatory pediatrics. As a result, the 2018 resident survey showed improvement from below to above average (57 percent to 86 percent), compared to the national responses regarding compliance in this area (70 percent). We partnered with the Quality Improvement Department in disseminating data quarterly to faculty and residents by emailing SNAP reports, comparing various hospital quality metrics to applicable national benchmarks, and we identified Community Health Center (CHC) ambulatory quality metrics as well.

The balance of service and education was addressed: Rounding time was reorganized for clinical teaching about hospitalized patients, faculty role modeling of rounding, and patient/family engagement. As a result, for 2018, residents reported their education was not compromised by service obligations almost all of the time. Further faculty development on family centered rounds and education on rounds was done. A revised discharge summary was implemented, and it doubled as the final progress note. This saved significant time needed for documentation, and provided more time for meaningful participation in direct care.

The Back to Bedside (B2B) residents continued working on a bundle of strategies to enhance meaningful participation in care, including an improved handover tool and progress note and better communication around transitions of care. Commitment to further improve clerical support was secured.

Work continued on evaluation timeliness: Timeliness of evaluations of residents by faculty continued to improve, incentivized by
shared reporting of completion and gift cards for high performers. This continues to be an area for ongoing improvement, and the content of evaluations will be considered in efforts going forward.

**Aims for the program were developed to use in the accreditation process and to coordinate with the Department of Pediatrics strategic plan:**

The Pediatric Residency Program will be able to offer participants experiences that can prepare them well for any of the career possibilities in Pediatrics. Many programs are conducted in ways that emphasize and prepare their graduates for one or two outcomes rather than other possibilities. The University of Connecticut Pediatric Residency Program will continue to strive to provide the broadest possible spectrum of core and discretionary activities to allow its graduates to take advantage of any opportunities they might choose. Its graduates’ career choices historically have reflected this intent, and it is the aim of the program to sustain its “pluripotential” educational experience as the landscape of Pediatrics evolves.

The Pediatric Residency Program will offer a resident learning environment that promotes wellness and reduces burnout to sustain wellness and meaning in residents’ professional and personal lives throughout their careers. The Pediatric Residency Program will embrace the challenge of creating a learning environment that promotes wellness through proper self-care, connectedness, and meaning in work. Residents will learn to maintain their health and well-being and to renew themselves in the face of the challenges their profession brings them. They will experience and learn the value of connectedness with their fellow pediatricians, interprofessional team members, and others in their personal lives. They will learn to bring meaning to their professional and personal lives through thoughtful and innovative changes in the conduct of their activities.

The Pediatric Residency Program graduates will be able to advocate effectively for their patients and families, and for the populations they serve during their residency experience and throughout their careers. Pediatric Residents will be educated in a way that increases their chances of accepting responsibility and acting in ways that reach beyond the provision of care, to address the social determinants of health for the individual patients and families served and for the populations they serve as a whole. The program will create this expectation for all residents through the core community longitudinal experience, and it will promote those whose career focus is advocacy for the highest possible level of community and child health through the continued advancement of the advocacy pathway.

Graduates of the program will acquire advanced skills and ability in quality improvement and safety activities. The Pediatric Residency Program will continue to develop and promote a strong resident commitment to reduce error and harm, and to promote the highest quality of care possible. Residents will continue demonstrating the acquisition of knowledge in these areas as reflected on their standard examinations, but more importantly, they will actively identify safety opportunities and participate in addressing them.

The program is being organized to improve resident ability to identify potential research mentors, and to enhance the perception of the environment of inquiry within the residency program.

To enhance the resident awareness of research opportunities and their ability to pursue them, Dr. Sharon Smith continues her efforts to forge ahead with resident scholarship. A searchable database was developed and disseminated, maintaining a list of faculty willing to mentor resident research, and their areas of interest. This also has resulted in a listing of rotation and division-specific scholarly activities for resident access on our CTHusky (Blackboard) curricular site. There also has been dissemination of the highlights of resident scholarly achievements, to help stimulate interest in and honor their accomplishments. Resident participation in research continues to increase, with more participation documented in the four-week Research Methods rotation under the leadership of Dr. Smith. There was such an increase of interest that the program had to sustain the number of rotations offered during the year at six.

**Pediatric Residents by Level, 2017-18**

**PL-1**

- Eliyahu Akerman, MD
- Lauren Boudreau, DO
- Nayla Boulad, DO
- Alexa Goldfarb, DO
- Solborg Ingvarsdottir, MD

- Jessica Gordon, MD
- Daniel Gustkey, DO
- Lauren Iacono, DO
Sarah Mackey, DO
Amy Miller, MD
Andres Moreno, MD
Erin Pastor, DO, MS
Amritha Patel, MD
Shaheen Rangwalla, DO
Carolyn Ranten, DO
Esther Son, DO
John Sooy, MD
Paul Tomlinson, DO
Scott Treece, MD
Jonathan Uhl, MD
Divya Vangala, MD, MA

PL-2
Amy Blodgett, MD
Noah Buncher, DO
Jessica Fennell, MD
Nicole Fersa, DO
Joshua Goldman, MD
Erin Goode, DO
Shilpa Guntaka, MD

PL-3
Kristin Brooke Hallett, MD
Owen Kahn, MD
Kaitlin Keenan, DO
Abraham Khorasani, MD
Danielle Klima, DO
Sarah Kollar, DO
Neetu Krishnan, DO
Chelsea Lepus, DO
Catherine Paczek, DO
Usha Prasad, DO
Katarzyna Saar, DO
Jessica Sanchez, MD
Chelsea Wells, DO

Justine Mrosak, MD
Dana Nezon, MD
John Norko, MD
Nisha Patel, MD
Jenny Petruskas, MD
Agnes Reschke, MD
Sara Soshnick, DO
Jessica Tutolo, MD
Carolina Vega, MD
Emily Anne Sampino, MD
Caleb Wasser, DO
Jonathan Wong, DO

Chief Residents
Emily Biddick, MD
Crista Cerrone, MD
Sarah Germani, MD
The University of Connecticut School of Medicine-sponsored graduate medical education (fellowship) programs at Connecticut Children’s Medical Center continue to graduate exceptionally trained specialty physicians who enter practice throughout the country. Our fellows continue to be awarded funding for exciting research projects, with numerous accepted presentations at national scientific meetings, in addition to travel grants and awards. The success of our fellowship programs would not be possible without the dedication and efforts of our fellowship manager and coordinators: Marianne Custer, manager; Lindsay Haythorn, Amanda Ross, and Kierstyn Callahan, coordinators.

**Pediatric Anesthesiology**

Led by Dr. Michael Archambaut, the Pediatric Anesthesiology Fellowship Program entered its third year of accreditation in 2018 and graduated its first fellow, Dr. Thomas Manning, in June 2018. Dr. Manning is a native of Connecticut. He completed medical school in Nebraska at Creighton University and residency at the University of Nebraska. He was an excellent addition to the department. He presented at a multidisciplinary surgical morbidity and mortality conference and collaborated with Drs. Christina Biello and Jonathan Martin on a research project investigating minimally invasive surgery for craniosynostosis. Additionally, with Drs. Archambault and otolaryngologist Katherine Kavanagh, he presented a poster, “Crisis Resource Management (CRM) Simulation Training During Anesthesiology Residency: Do Non-technical Skills Transfer Into Independent Practice? A Pilot Study,” at the American Society of Anesthesiology annual meeting. After a successful site visit in late 2017, the program received ACGME continued accreditation for another year. Because the 2019-20 application class for Pediatric Anesthesia was again smaller than in previous years, the program did not match and is continuing to recruit a fellow for a July 2019 start date.

**Fellow Publications**


**Pediatric Emergency Medicine**

Led by Dr. Matt Laurich, the Pediatric Emergency Medicine Fellowship is in its 19th year. It is a three-year fellowship with two fellows per year.

Dr. Laurie Malia graduated from the fellowship in June 2018 and accepted a fellowship position in Pediatric Emergency Ultrasound at New York-Presbyterian Morgan Stanley Children’s Hospital at Columbia University in New York, NY. Dr. Malia joined the Emergency Medicine Division in November 2015 after having completed her residency here at Connecticut Children’s. Her case report, “Cold Panniculitis Following Ice Therapy for Supraventricular Tachycardia,” was published in Pediatric Emergency Care in April 2018. Her prospective observational study, “Adverse Event and Satisfaction with Use of Intranasal Midazolam for Emergency Department Procedures in Children,” was presented as a poster at the Pediatric Academic Societies meeting in Toronto, Canada, in May of 2018, and published in the American Journal of Emergency Medicine. Her prospective observational study, “Diagnostic Accuracy of Laboratory and Ultrasound Findings in Patients with a Non-visualized Appendix,” was published in the American Journal of Emergency Medicine in August 2018.
Dr. Hannah Sneller graduated from the fellowship in June 2018 and accepted a Pediatric Emergency Medicine attending position at the University of Nebraska in her hometown of Omaha. Dr. Sneller became part of the division in July 2015, arriving from Stony Brook Children’s Hospital in Stony Brook, NY, where she completed her pediatric residency and chief residency. Dr. Sneller’s study, “The Modified Pulmonary Index Score Predicts Admission from the Pediatric Emergency Department,” was presented at the Society for Critical Care Medicine meeting in San Antonio, TX, in February 2018, as well as at the Pediatric Academic Societies meeting in Toronto, Canada, in May of 2018. The manuscript has been submitted for publication. Dr. Sneller’s quality improvement project, “Improving Time to Delivery of Systemic Corticosteroids in Patients Presenting to the ED with Moderate to Severe Asthma Exacerbations,” was presented at multiple venues including as a platform presentation at the Eastern Society of Pediatric Research meeting in Philadelphia, PA, in March 2018, and the New England Regional Pediatric Emergency Medicine Fellows’ Conference in March 2018, and as a poster at the Pediatric Academic Societies meeting in Toronto, Canada, in May 2018. The project won second prize at UConn Health’s Symposium on Patient Safety & Continuous Quality Improvement in June 2018. In addition, Dr. Sneller published two case reports, “Lemierre’s Syndrome Presenting as Multifocal Pyomyositis in a Young Child” in the Journal of Pediatric Infectious Disease, in May 2018, and “Acute Hemorrhagic Edema of Infancy with Associated Hemorrhagic Lacrimation” in Pediatric Emergency Care in August 2018.

Dr. Noah Jablow joined the program in July 2016 from Stony Brook Children’s Hospital. He has several projects ongoing including a prospective study of the test characteristics of automated point-of-care urinalysis and a survey study of pediatric emergency department patients regarding reasons for seeking care in the Emergency Department (ED).

Dr. Tasha Desai joined the program in July 2016, arriving from the Children’s Hospital at Lehigh Valley Health Network in Allentown, PA. She has several projects underway including a study of opiate prescribing patterns in the Pediatric Emergency Department and patient opiate prescription-filling patterns for pediatric patients in the state of Connecticut. Her project, “An Objective Approach to Identifying Opportunities for Preventing Ingestions Among Youth in Connecticut,” was presented at the Eastern Society of Pediatric Research in March 2018.

Dr. Jacob Greenberg joined the program in July 2017 from Maimonides Infants’ and Children’s Hospital of Brooklyn, NY. Dr. Greenberg is working on multiple research projects including a study of the novel use of bedside ultrasound to confirm nasogastric tube placement, a survey of adolescent patients in the Emergency Department on risk-taking behavior and health education, and a retrospective study on the impact of formal crisis prevention training on reducing the use of physical and chemical restraints in the ED. Dr. Greenberg also is involved in several quality improvement projects. His project on the use of a nasogastric tube for hydration in bronchiolitis won third prize at UConn Health’s Symposium on Patient Safety & Continuous Quality Improvement in June 2018.

Dr. Prina Patel joined the program in July 2017 from Winthrop University Hospital in Mineola, NY. Dr. Patel is working on several projects including the impact of rapid point-of-care testing for influenza on resource utilization and Emergency Department management, and another project on the test characteristics of radiography for evaluating possible neck infections in the ED.

The program welcomed two excellent new fellows in July 2018. Dr. Ruchika Jones completed the pediatric residency program at Stony Brook Children’s Hospital followed by chief residency at Jersey Shore University Medical Center of New Jersey where she then worked as an attending in the pediatric emergency department as well as serving as associate residency program director. Dr. Rahul Shah completed his pediatric residency at Yale New Haven Hospital in New Haven, CT.

In December 2018, the program successfully matched two future fellows who will start in July 2019. Dr. Owen Kahn will join the program after completing the University of Connecticut Pediatric Residency Program at Connecticut Children’s Medical Center in Hartford, CT. Dr. Candice Williams will join us in July 2019 following completion of the pediatric residency program at Westchester Medical Center in Valhalla, NY.

Fellow Publications


**Book Chapters**

Pediatric Gastroenterology
Led by Dr. Bella Zeisler and associate program director Dr. Melissa Fernandes, the fellowship program in Pediatric Gastroenterology is in its seventh year. Dr. Zeisler assumed the role of program director in July 2018 following the program’s leadership by Dr. Wael Sayej who was instrumental in building the fellowship into a successful program.

The program graduated its fifth fellow, Dr. Angela Pressley-Wallace, in August 2018. She accepted a position as a Pediatric Gastroenterologist in a private practice in Gulfport, MI.

Our third year fellow, Dr. Temara Hajjat is working with Dr. Jeffrey Hyams on a project to determine the correlation of fecal calprotectin and Remicade levels in patients receiving Remicade infusions for inflammatory bowel disease. She presented an abstract from the multicenter PROTECT study about pediatric inflammatory bowel disease at Digestive Disease Week® (DDW) in the spring of 2018 and will be presenting additional research on inflammatory bowel disease at DDW 2019.

Our second year fellow, Dr. Andrew Fondell, started his research experience in health economics and inflammatory bowel disease in 2018 and his primary research mentor is Dr. Hyams. Dr. Fondell’s work centers on the economic impact of a new diagnosis of inflammatory bowel disease on our patients as well as the health care system.

Dr. Joelynn Dailey joined the program in July 2018. She completed her residency at Lehigh Valley Hospital in Pennsylvania. Her medical school education was undertaken at Philadelphia College of Osteopathic Medicine. Dr. Dailey started her first research rotation in November 2018 and will transition to working on her research in July 2019. She is currently determining the focus of her research project and will have a second research month in March 2019 to help her finalize her research project and establish goals and a timeline for her months as a primary research fellow.

In December 2018, the program successfully matched Dr. Chelsea Lepus who will join the program in July 2019 after completing her residency here at the University of Connecticut/Connecticut Children’s Medical Center. She completed her medical school education at Lake Erie College of Osteopathic Medicine.

Pediatric Endocrinology
Led by Dr. Rebecca Riba-Wolman, the Pediatric Endocrinology Fellowship is now in its 21st year. Dr. Riba Wolman assumed the role of program director in July 2017. Dr. Christine Trapp joined as assistant fellowship director in October 2018.

We continue to be successful in recruiting excellent fellows in an environment of decreasing applications to the subspecialty. Graduates of our fellowship program have had a 100% pass rate at first attempt on the pediatric endocrinology boards, and are engaged in meaningful research experiences mentored by well-published, NIH-funded investigators in basic and translational research. Our fellows have continued to receive awards and travel grants to attend national meetings to present their work. We continue to place fellows in academic positions upon graduation.

Dr. Massiel Mojica Sarmiento joined us from Lincoln Medical and Mental Health Center in Bronx, NY, in July 2016. Her area of interest is in genetic forms of childhood obesity, and she continues her work under the mentorship of Drs. Emily Germain-Lee and Christine Trapp on defining the temporal pattern of obesity onset in a population of patients with pseudohypoparathyroidism Type 1a. She has presented this work at the Pediatric Endocrine Society National Meeting in 2018, and is working on manuscript submission.

Dr. Whei Ying Lim joined us from Hurley Medical Center in Michigan in July 2017. Her area of interest is type 1 diabetes mellitus, and she continues her work on the role of the stool microbiome on the development of type 1 diabetes in pediatric patients. Her work is under the mentorship of Drs. Cem Demirci and Derya Unutmaz (The Jackson Laboratory for Genomic Medicine). She has received two highly sought after awards through the national organizations of the Pediatric Endocrine Society and the Endocrine Society. She has also been invited to present at the European Professional Association for Transgender Health.

Dr. Komalben Parmar joined us from Hurley Medical Center in Michigan in July 2018. Her research interests have developed over her first clinical year of fellowship, and she is anticipating work regarding glucose homeostasis with a member of the institution.

In December 2018, the program successfully matched Dr. Neetu Krishnan who is an internal recruitment from our Pediatric Residency at Connecticut Children’s Medical Center/University of Connecticut. Dr. Krishnan will join the program in July 2019.

Fellow Publications
Sarmiento MS, Trapp CM, Germain-Lee E. Weight trajectory in infants with pseudohypoparathyroidism type 1A. Pediatric Endocrine Society Meeting, April 2018. Toronto, Canada.

Medical Genetics
Led by Dr. Joseph Tucker, MD, and associate program director, Brittany Gancarz, CGC, the Medical Genetics and Genomics Fellowship Training Program has been training clinical medical geneticists since the program was first accredited in 1997. Robin Schwartz, MS, CGC, retired from the program and her position as associate program director in 2018. Future development of the program involves plans to expand through the hire of two additional clinical geneticists, the development of an Undiagnosed Diseases program in collaboration with Jackson Laboratories in Farmington, CT, and recruitment of a new division chief.
Dr. Jaclyn Beirne will graduate at the end of this academic year and plans to stay on as faculty at UConn Health and Connecticut Children's Medical Center as a medical geneticist. Her research poster, “A de novo KIF11 Pathogenic Variant in a Patient with Microcephaly and Failure to Thrive,” was accepted and will be presented at the American College of Medical Genetics and Genomics (ACMG) Annual Clinical Medical Genetics Meeting in April 2019.

**Pediatric Infectious Diseases**
The Pediatric Infectious Diseases Fellowship Program is led by Dr. Nicholas Bennett and is in its second year. In this era of antibiotic-resistance and new hospital standards, the program has a focus on training the next generation of antimicrobial stewards. The program also seeks to train fellows in practical clinical immunology, including the management of children with primary immune deficiencies and HIV infection.

Because the 2019-20 application class for pediatric infectious diseases was smaller than in previous years, the program did not match and is continuing to recruit a fellow for a July 2019 start date.

**Pediatric Hematology-Oncology**
The Pediatric Hematology-Oncology Fellowship Program is led by Dr. Andrea Orsey and is entering its second year as a newly accredited program. Dr. Orsey was accepted to begin the Harvard Macy Institute Program for Health Professionals in January 2019. Through the program, she will be improving the quality of the Pediatric Hematology-Oncology Fellowship Program education.

In July 2018, the program welcomed its first fellow, Dr. John Norko, who completed both his pediatric residency and medical school education at the University of Connecticut/Connecticut Children’s Medical Center. Dr. Norko is interested in genetic and immunologic aspects of pediatric cancer. He is exploring research opportunities and will finalize his research project by June 2019. In December 2018, the program successfully matched Dr. Tatiana Ospina who will join the program in July 2019 after completing her residency at Lincoln Medical and Mental Health Center in Bronx, NY. Her medical school education was completed at Universidad Pontificia Bolivariana Facultad de Medicina in Colombia.

**Neonatal-Perinatal Medicine**
Led by Dr. Jennifer Trzaski, the fellowship program in Neonatal-Perinatal Medicine continued its outstanding record of academic accomplishment and scholarly productivity. In the 45 years since accreditation, 67 fellows have graduated from the program.

Maushumi Assad, MD, MPH, completed the fellowship in June 2018 and accepted a neonatology attending position at Winchester Hospital in Winchester, MA. Prior to graduating in June 2018, she presented her research to the Eastern Society for Pediatric Research in Philadelphia in March 2017, the American Academy of Pediatrics 91st Perinatal and Developmental Symposium in Bonita Springs, FL, in November 2017. Dr. Assad received Eastern Society for Pediatric Research Meeting and Pediatric Academic Society Meeting travel grant awards for her research.

Susan Pitts, DO, completed the fellowship in June 2018 and accepted a Neonatology attending position at Mercy Hospital in Joplin, MO. Prior to graduating in June 2018, she presented her research to the Eastern Society for Pediatric Research in Philadelphia in March 2017, the American College of Osteopathic Pediaritians Osteopathic Medical Conference and Exposition in Philadelphia in October 2017, the New England Perinatal Society in March 2018, the BYCONN conference in March 2018, and at the Pediatric Academic Societies in Toronto, Canada, in May 2018.

Third-year fellow Jennifer Caldwell, MD, MS, presented her research to the Eastern Society for Pediatric Research in Philadelphia in March 2017 and to the Pediatric Academic Societies in San Francisco in May 2017. Dr. Caldwell received an award at Eastern Society for Pediatric Research Meeting for her research.

Second-year fellow Dr. Betté Ford’s area of scholarly interest is in neonatal resuscitation. She is particularly interested in improving resident education and experience in the delivery room. She is working with mentors Jennifer Trzaski, MD, and James Hagadorn, MD, in the Division of Neonatology. She presented her research at the Innovations conference in San Diego, CA, in June, 2018. Dr. Ford was also selected to attend the American Academy of Pediatrics conference for first-year neonatal-perinatal medicine fellows in Santa Fe, NM, in June, 2018.

Second-year fellow Dr. Rachel Koski’s research interest is in neuroscience focusing on globoid cell leukodystrophy (Krabbe’s disease). She is pursuing this basic science research project in the lab of Dr. Stephen Crocker at UConn Health. Dr. Koski presented her research at the Innovations conference in San Diego, CA, in June 2018.
Dr. Aditya Chhikara joined the program in July 2018 from New York-Presbyterian Brooklyn Methodist Hospital in Brooklyn, NY.

Dr. Mishika Malik joined us in July 2018 from Southern Illinois University in Springfield, IL.

In December 2018, the program successfully recruited Dr. Poonam Thakore who will join the program in July 2019 after completing her residency at Tulane University Health Sciences Center in New Orleans, LA. Dr. Thakore completed her medical school education at Tver State Medical Academy in Russia.

Fellow Publications


Pediatric Orthopaedic Surgery

Led by Dr. Mark Lee, the Pediatric Orthopaedic Surgery Fellowship is entering its fifth year of formal ACGME accreditation. The program has thus far graduated three fellows who are currently in independent practice.

Alvin Wei-I Su, MD, PhD, graduated from the program in July 2018 and accepted a Pediatric Orthopaedic Surgery attending position with subspecialty in Sports Medicine at Alfred I. DuPont Children’s Hospital in Delaware. During his fellowship, he worked on optimizing operating room efficiency for management of supracondylar humerus fractures, and he continued biomechanics research begun prior to fellowship. He received a scholarship to the 2017 annual International Pediatric Orthopaedic Symposium in Orlando, FL. He also presented a poster on operating room efficiency at the annual Pediatric Orthopaedic Society of North America meeting in 2018.

Fred Xavier, MD, PhD, joined the program in October 2018 upon completing a fellowship in adult spine surgery at Dalhousie University in Nova Scotia, Canada. He resigned from the program in December 2018 to change his overall clinical focus.

The Pediatric Orthopaedic Fellowship accepted a new fellow outside of the formal match for the 2019-2020 year. We look forward to working with Dr. Harshad Patel beginning August 2019 following her completion of a Pediatric Orthopaedic fellowship at Duke University in North Carolina.

Fellow Publications


Pediatric Pulmonology

Led by Dr. Craig Schramm, the Pediatric Pulmonology Fellowship is in its 28th year. Because our program is relatively small, division members are able to provide individualized training for our fellows. Each of our graduated fellows has a career in academic pediatric pulmonary medicine.

Dr. Jamie Harris joined the program in July 2018 after completing his residency at Advocate Lutheran General Hospital in Illinois. Dr. Harris is broadly interested in pediatric pulmonary problems, especially cystic fibrosis. He will have his first research rotation in January 2019, and will begin working on a specific project in July 2019.

Pediatric Surgery

Led by Connecticut Children’s surgeon-in-chief and program director Dr. Christine Finck and associate program director Dr. Richard Weiss, the fellowship program in Pediatric Surgery is in its seventh year. To date, three fellows have graduated from the program and have gone on to successful practices in Eugene, OR, Hershey, PA, and Chicago, IL.

The program’s current fellow, Dr. James Healy, has a basic science background in the molecular genetics of endocrine tumors, and a strong interest in clinical quality improvement (QI) initiatives within Pediatric Surgery including: risk assessment, collaborative implementation, trials of best practices, and design of workforce education to achieve clinical improvement (including resident education). This interest extends to include the application of QI techniques to global surgery initiatives to improve quantification of impact and mathematical validation of social and economic benefit of health care spending in low- and middle-income nations. He is interested in the intersection of this quality improvement work with public policy, and the influence political initiatives have upon pediatric health.

In May 2018, the program successfully matched Dr. Katerina Dukleska who will join the program in August 2019. Dr. Dukleska will be completing her residency at Thomas Jefferson University Hospitals in Philadelphia, PA. Dr. Dukleska completed her medical school education at Rutgers New Jersey Medical School in New Jersey.
Fellow Publications


STAFF

Program Leadership
Marianne Custer, BS, C-TAGME
Fellowship Program Manager

Program Coordinators
Lindsay Haythorn
Emergency Medicine, Infectious Diseases, Pulmonology, General Surgery

Amanda Ross
Anesthesiology, Endocrinology, Neonatal-Perinatal Medicine, Orthopaedic Surgery

Kierstyn Callahan
Hematology-Oncology, Gastroenterology, Medical Genetics

PEDIATRIC ANESTHESIOLOGY
Michael Archambault, MD, Program Director
Thomas Manning, MD

PEDIATRIC EMERGENCY MEDICINE
V. Matt Laurich, MD, Program Director
Laurie Malia, DO
Hannah Sneller, MD
Noah Jablow, MD  
Tasha Desai, DO  
Noah Jablow, MD  
Prina Patel, MD  
Ruchika Jones, MD  
Rahul Shah, MD

**PEDIATRIC ENDOCRINOLOGY**
Rebecca Riba-Wolman, MD,  
Program Director  
Christine Trapp, MD,  
Associate Program Director  
Massiel Sarmiento, MD  
Whei Ying Lim, MD  
Komalben Parmar, MD

**PEDIATRIC GASTEROENTEROLOGY**
Bella Zeisler, MD,  
Program Director (starting July 2018)  
Wael Sayej, MD  
(2013-2018), Program Director  
Melissa Fernandes, MD,  
Associate Program Director  
Angela Pressley-Wallace, MD  
Temara Hajjat, MD  
Andrew Fondell, MD  
Joelynn Daily, DO

**MEDICAL GENETICS**
Joseph Tucker, MD,  
Program Director  
Brittany Gancarz, CGC,  
Associate Program Director (starting July 2018)  
Robin Schwartz, MS, CGC,  
Associate Program Director (1997-2018)  
Jaclyn Beirne, MD

**PEDIATRIC HEMATOLOGY/ONCOLOGY**
Andrea Orsey, MD,  
Program Director  
John Norko, MD

**NEONATAL-PERINATAL MEDICINE**
Jennifer Trzaski, MD,  
Program Director  
Maushumi Assad, MD  
Susan Pitts, DO  
Jennifer Caldwell, MD, PhD  
Betté Ford, MD  
Rachel Koski, MD  
Mishika Malik, MD  
Aditya Chhikara, MD

**PEDIATRIC ORTHOPAEDIC SURGERY**
Mark Lee, MD,  
Program Director  
Alvin Wei-I Su, MD, PhD  
Fred Xavier, MD, PhD

**PEDIATRIC SURGERY**
Christine Finck, MD,  
Program Director  
Richard Weiss, MD,  
Associate Program Director  
James Healy, MD
The Office of Grants and Sponsored Program (OGSP) partners with faculty and staff to provide the highest quality research administration at all stages of sponsored projects, from identifying funding sources through award closeout. OGSP facilitates activities within the research community as Connecticut Children’s continues to positions itself to become a leading research children’s hospital.

The Office of Grants and Sponsored Programs (OGSP) continues to assist and support Connecticut Children’s investigators and staff with applying for, procuring, and managing extramural funding, and ensures compliance with the policies and regulations of Connecticut Children’s, its sponsors, and federal and state oversight agencies. In addition, the OGSP Contracts Office negotiates and processes all agreements related to research and sponsored programs, and issues all contracts for research-related collaborations, material transfers, and data sharing. In 2018, OGSP managed a $30M portfolio that included $11.1M in new awards, submitted 78 proposals, and processed 588 contracts.

In 2018, OSGP welcomed both a new director Ms. Maria Soliman, who was recruited from the Levine Cancer Institute in Charlotte, NC, where she was director of research administration. She brings more than 20 years of experience in research administration for federal, state, and pharmaceutical grants and trials. Her research experience includes implementation of financial and clinical-trial management systems, auditing and implementing billing-compliance programs, and improving research-billing revenue-cycle processes. She is actively involved with the Society of Research Administrators International, serving on the Society’s Educational and Professional Development sub-committees for Financial Management and Clinical and Translational Research.

STAFF

**Ammarie Beaulieu, MPH**
Senior Director, Academic Affairs, Continuing Medical Education, Office of Grants and Sponsored Programs

**Maria Soliman, Director**

**Terry Dehnel, Director**
(through July 2018)

**Kimberly Davey, Senior Manager, Grant Programs and Research Financial Administration**

**Neal Breen, Central Grants Manager**

**Lisa Butler, Manager, Contracts**

**Gena Dixon, Departmental Associate Grants Management Specialist**

**Mary Ellen Foran, Clinical Trials Associate Grants Management Specialist**

**Lea Ann Fortin McCue, Contract Administrator**

**Lora Frascarelli, Central Associate Grants Management Specialist**

**Laura Friedeburg, Departmental Grants Management Specialist**

**Kathy Lawrence, Administrative Assistant**

**Brenda Pillot, Departmental Associate Grants Management Specialist**

**Aubree Siebert, Clinical Trials Associate Grants Management Specialist**

**Marlene Tzickas, Central Associate Grants Management Specialist**

**Cristen Yakush, Associate Grants Management Specialist**
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<th>Principal Investigator</th>
<th>Funding Source Primary/(Secondary)</th>
<th>Award Start Date</th>
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<th>Total Award or Revenue (Clinical Trials)</th>
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<th>Amount of Subcontract</th>
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<td>United States Immunodeficiency</td>
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<td>A Multi-center, Randomized, Double-Blinded Comparative Study to Evaluate the Efficacy, Safety, and Pharmacokinetics of Daptomycin Versus Active Comparator in Pediatric Subjects With Acute Hematogenous Osteomyelitis Due to Gram-Positive Organisms</td>
<td>Cubist Pharmaceuticals, Inc</td>
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<td>A Phase 1, Open Label, Single Dose Study to Investigate the Pharmacokinetics, Safety and Tolerability of Dababavincin in Hospitalized Children Aged 3 Months to 11 Years Receiving Standard Intravenous Anti-Infective Treatment for Bacterial Infections</td>
<td>Durata Therapeutics International, BV</td>
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<td>Bennett, Nicholas</td>
<td>Pharmacokinetics of a Single-Dose of Dabavancin in Premature Neonates to Infants Ages 3 Months With Suspected or Confirmed Bacterial Infection</td>
<td>Allergan Sales, LLC</td>
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<td>A Prospective, Open-Label Study to Assess the Pharmacokinetics, Safety &amp; Efficacy of Ambilumivirin When Used to Treat Children With Invasive Cardiobiosis, Including Candidemia</td>
<td>Pfizer, Inc.</td>
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<td>Expanded Access IND Program (EAP) to Provide Stamavir Vaccine to Persons in the United States for Vaccination Against Yellow Fever</td>
<td>Sanofi Pasteur</td>
<td>6/15/17</td>
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<td>CT / DPH (Hospital for Special Care)</td>
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<td>Health for Sickle Cell Disease</td>
<td>The Children's Hospital of Philadelphia</td>
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<td>A Phase III/II Open-label, Multicenter, Crossover, Safety, Efficacy and Pharmacokinetic Study of Recombinant Coagulation Factor VIII (FVIII) Compared to Recombinant Human Antihaemophilic Factor VIII (FVIII; INN: octocog alfa) in Subjects With Hemophilia A, and a Repeat PK, Safety and Efficacy Study (Part 3)</td>
<td>CSL Behring, LLC</td>
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<td>HTT MC TADD Phase 3, Double Blind, Randomized, Efficacy and Safety Comparison of Placebo and Placebo in Pediatric Patients with Sickle Cell Disease</td>
<td>Eli Lilly</td>
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<td>Single-Dose Study to Evaluate the Pharmacokinetics, Pharmacodynamics, Safety, and Tolerability of Apixaban in Pediatric Subjects at Risk for a Venous or Arterial Thrombotic Disorder</td>
<td>Bristol Myers Squibb</td>
<td>11/22/13</td>
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<td>A Phase III Open-label, Multicenter, Extension Study to Assess the Safety &amp; Efficacy of Recombinant Coagulation Factor VII CSL937 in Subjects With Severe Hemophilia A</td>
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<td>A Phase III Open-label Pharmacokinetic, Efficacy and Safety Study of mIVI-Single Chain in a Pediatric Population With Severe Hemophilia A</td>
<td>CSL Behring, LLC</td>
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<td>A Phase 3, Double-blind, Randomized, Placebo-controlled, Multicenter Study of GBT440 Administered Oral to Patients With Sickle Cell Disease</td>
<td>Global Blood Therapeutics</td>
<td>9/25/17</td>
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<td>Decreasing Antibiotic Exposure in Infants With Suspected Ventilator-Associated Infection</td>
<td>Gerber Foundation / VCU</td>
<td>3/1/17</td>
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<td>A Randomized, Open-label, Active Controlled, Safety and Efficacy Study in Pediatric Subjects Requiring Anticoagulation for the Treatment of a Venous Thromboembolic Event</td>
<td>Bristol Meyers Squibb /Pfizer, Inc.</td>
<td>5/8/15</td>
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<td>Davey, Brooke</td>
<td>T-Cell Receptor Excision Circles: A Novel Approach to Identify Immune Deficiency in Newborns With Congenital Heart Disease</td>
<td>NE Congenital Cardiology Research Foundation</td>
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<td>A Three-arm, Randomized, Double-blind, Placebo-controlled Study of the Efficacy and Safety of Two Trough-Ranges of Everolimus as Adjunctive Therapy in Patients With Tuberculous Sclerosis Complex (TSC) Who Have Refractory Partial-onset Seizures</td>
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<td>An Open-label Multicenter Long-term Safety Roll-over Study in Patients With Tuberculous Sclerosis Complex (TSC) and Refractory Seizures Who Are Judged by the Investigator to Benefit from Continued Treatment With Everolimus After Completion of Study</td>
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<td>Dunbar, Nancy</td>
<td>An Observational, Longitudinal, Prospective, Long-term Registry of Patients With Hypophosphatasia</td>
<td>Alexion Pharmaceuticals, Inc.</td>
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<td>Dworkin, Paul</td>
<td>Implementing a Component of the Hartford Blueprint for Women’s &amp; Children’s Health: Building Early Childhood Providers’ Capacity to Strengthen Families Through Developmental Promotion, Early Detection, and Linkage to Services</td>
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<td>Development and Evaluation of the TUMMY CD-index: A Patient-Reported Signs and Symptoms Index for Pediatric Crohn's Disease</td>
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<td>A Multicenter, Prospective, Long-term, Observational Registry of Pediatric Patients With Inflammatory Bowel Disease</td>
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<td>Shaare Zedek Medical Ctr</td>
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<td>A Phase 1b Open-label Study to Assess the Safety and Pharmacokinetics of Subcutaneously-administered Golimumab, a Human anti-TNFα Antibody, in Pediatric Subjects With Moderately to Severely Active Ulcerative Colitis</td>
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<td>A Phase 1, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Investigate the Efficacy and Safety of Mongersen (GED-0301) for the Treatment of Adults and Adolescent Subjects With Active Crohn’s Disease</td>
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<td>A Phase 2, Randomized, Double-blind, Dose-ranging Study to Determine the Pharmacokinetics, Safety and Tolerability of Vedolizumab IV in Pediatric Subjects With Ulcerative Colitis or Crohn's Disease</td>
<td>Takoda Development Center Americas, Inc.</td>
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<td>Katiner, Louisa</td>
<td>Adaptive Clinical Genomics for Precision Medicine</td>
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<td>TSC2 Variants Without Clinical Findings of Tuberous Sclerosis Complex as a Risk Factor for Idiopathic Autism Spectrum Disorder</td>
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<td>A Multi-Center, Placebo-controlled, Double-blind, Randomized Study Evaluating the Role of Oral Glutathione on Growth Parameters in Children with Cystic Fibrosis</td>
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<td>Controlled Trial of Two Adherence Promotion Interventions for Cystic Fibrosis, II Change Adherence and Raise Expectations (ICARE)</td>
<td>Novartis Pharmaceuticals Corp / Univ of Miami</td>
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<td>A Long-term Prospective Observational Safety Study of the Incidence of and Risk Factors for Fibrocystic Colopathy in US Patients With Cystic Fibrosis Treated With Pancreatic Enzyme Replacement Therapy</td>
<td>Seattle Children’s Hosp</td>
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<td>A Phase 3; Two-arm, Rollover Study to Evaluate the Safety of Long-term Ivacaftor Treatment in Subjects 6 Years of Age and Older With Cystic Fibrosis and a Non-G551D CFTR Mutation</td>
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<td>A Phase 3, Randomized, Double-blind, Placebo-controlled, Parallel Group Study to Evaluate the Efficacy and Safety of Lumacaftor in Combination With Ivacaftor in Subjects Aged 12 Years and Older With Cystic Fibrosis, Homozygous for the F508del-CFTR Mutation</td>
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<td>A Point-Prevalence Study to Evaluate the Prevalence of Antibodies to Selected Porcine Viruses in Patients With Cystic Fibrosis Who Are Receiving Porcine-derived Pancreatic Enzyme Replacement Therapy: A Harmonized Protocol Across Sponsors</td>
<td>AbbVie, Inc; Aptalis Pharma, Inc; Janssen Research &amp; Development LLC</td>
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<td>A Phase 4, Open-label Treatment, Randomized, Multicenter, 2-arm, Parallel-group, Pilot Study of Adherence to Lumacaftor/Ivacaftor in CF, Subjects Homozygous for the F508del-CFTR Mutation</td>
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<td>Lee, Youngmok</td>
<td>Comparison of Vectors and Optimization of Dosages for Renal Vein Injection Method in GSD-1a Mice</td>
<td>Dimension Therapeutics, Inc.</td>
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<td>Research Development to Improve Efficacy of AAV-Mediated Gene Therapy in GSD-1a Mouse Model</td>
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<td>An Open-Label, Phase I Pharmacokinetic Study of Single Doses of Intranasal Midazolam (USL261) in Pediatric Subjects with Epilepsy</td>
<td>Upsher-Smith Laboratories, Inc.</td>
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<td>An Open-Label, Multicenter Study of the Safety of Twice Daily Dycodone Hydrochloride Controlled-release Tablets in Opioid Exposed Children From Ages 6 to 16 Years Old</td>
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<td>Hartford Foundation for Public Giving</td>
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<td>Sayy, Wael</td>
<td>Oral Budesonide Suspension (OBS) in Adolescent and Adult Subjects (11 to 55 Years of Age, Inclusive) With Eosinophilic Esophagitis: A Phase 3 Randomized, Double-blind, Placebo-controlled Study</td>
<td>Shire Human Genetic Therapies, INC.</td>
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<td>Practice Pattern Outcomes in Actuar Life in Children With Nephrotic Syndrome</td>
<td>North American Pediatric Renal Transplant Cooperative Study</td>
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<td>NIH/National Institute of Allergy and Infectious Diseases / Boston Children's Hospital</td>
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<td>Simoneau, Tregony</td>
<td>Optimization of Home Oxygen Wearing in Premature Infants</td>
<td>Patient-Centered Outcomes Research Institute (Boston Children’s)</td>
<td>1/1/15</td>
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<td>Identifying Biomarkers of Allergic Asthma</td>
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<td>Tony, Heather</td>
<td>Efficacy, Safety and Tolerability of Teflurin® for Treatment of Polyarthritis Juvenile Idiopathic Arthritis (JIA) in Children and Adolescent Subjects</td>
<td>Pfizer, Inc</td>
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<td>A Long-term, Open-label Follow-up Study of DP-902050 for Treatment of Juvenile Idiopathic Arthritis (JIA)</td>
<td>Pfizer, Inc</td>
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<td>Colosexemoral Oral Suspension as Monotherapy or Add-On to Methimizine Therapy in Pediatric Subjects with Type 2 Diabetes Mellitus</td>
<td>Daichii Sanyo, Inc</td>
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<td>Infant Specific Ig, Rhinovirus C Bronchitis, and Incident Asthma in MARC-35</td>
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<td>Airway Microbiome and Age By Asthma Phenotypes in 2 Diverse Multicenter Cohorts</td>
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<td>A Comparison of Glycerosal® and Uncoated Cornstarch (UCCS) for the Dietary Management of Hepatic Glycerogen Storage Diseases (GSD), Glyce Trial</td>
<td>International Limited, a Nestle Health Science company</td>
<td>12/29/16</td>
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<td>A Phase 1/2, Open-Label Safety and Dose Finding Study of Adeno-Associated Virus (AAV) Serotype 8 (AAV8)-Mediated Gene Transfer of Glucose-6-Phosphatase(G6Pase) in Adults with Glycogen Storage Disease Type 1a</td>
<td>Uptagenyx Pharmaceuticals, Inc.</td>
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<td>United Health Fdn (The Village for Families &amp; Children, Inc.)</td>
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<td>Wolko, Leslie</td>
<td>A Phase IIa Randomized, Placebo Controlled Study of the Safety and Efficacy of Once Daily Dosing of STP206 in Premature Very Low Birth Weight and Extremely Low Birth Weight Neonates</td>
<td>Sigma-Tau Pharmaceuticals, Inc.</td>
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<td>Multi-Center Observational Study Regarding the Non-Interventional Surveillance Study of Respiratory Syncytial Virus Hospitalizations Among Infants Born at 29 to 35 Weeks Gestational Age Not Receiving Immunoprophylaxis</td>
<td>Astra Zeneca Pharmaceuticals, LP</td>
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<td>A Phase 2b Randomised, Double-blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of MEDI8897, a Monoclonal Antibody With an Extended Half-Life Against Respiratory Syncytial Virus, in Healthy Preterm Infants</td>
<td>Medimmune, LLC</td>
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<td>Zemel, Lawrence</td>
<td>Observational Study of Pediatric Rheumatic Diseases: The CARRA Registry</td>
<td>CARRA (Duke Univ)</td>
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<td>Zemel, Lawrence</td>
<td>A 12-Week Randomized, Double-blind, Placebo-Controlled, Parallel Group, Two-arm Study to Evaluate the Efficacy and Safety of Tocilizumab in Patients With Active Juvenile Idiopathic Arthritis: With 92-week Single Arm Open-label Extension to Examine the Long-term Use of Tocilizumab</td>
<td>Roche Laboratories, Inc</td>
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<td>Phase 3, Multi-center, Open-label Study to Assess the Pharmacokinetics, Safety and Efficacy of Certolizumab Pegol in Children and Adolescents With Moderately to Severely Active Polyarticular-course Juvenile Idiopathic Arthritis</td>
<td>UCB, Inc</td>
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<td>Zemel, Lawrence</td>
<td>A Phase 3 Multi-center, Open-Label Study to Evaluate Pharmacokinetics, Efficacy and Safety of Abatacept Administered Subcutaneously (SC) in Children and Adolescents With Active Polyarticular Juvenile Idiopathic Arthritis (pJIA) and Inadequate Response (IR) to Biologic or Non-biologic Disease Modifying Anti-rheumatic Drugs (DMARDs)</td>
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<td>A Phase Ib Open-label Multicenter Study to Investigate Pharmacokinetics, Pharmacodynamics, and Safety of Tocilizumab Following Subcutaneous Administration in Patients With Polyarticular Juvenile Idiopathic Arthritis</td>
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<td>ß-SPECIFIC 4 Patients: Study of Pediatric Efficacy and Safety With First-Hline Use of Canakinumab. An Open-label Canakinumab (ACZ885) Dose Reduction or Dose Interval Prolongation Efficacy and Safety Study in Patients With Systemic Juvenile Idiopathic Arthritis (SJIA)</td>
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<td>I Can Cope With Sickle Cell Disease</td>
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<td>An Open-label, Multicenter Study of the Safety, Pharmacokinetics, and Efficacy of Buprenorphine Transdermal System (BTDS) Opioid Analgesia for Moderate to Severe Pain</td>
<td>Purdue Pharma, LP</td>
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