

DEPARTMENT OF PEDIATRICS

Alan & Marlene Norton College of Medicine
SUNY Upstate Medical University

2020 | 2021
BIENNIAL REPORT



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Introduction from the Chair



I am excited to share with you our Department of Pediatrics biennial report for 2020 and 2021. This report details departmental activities in clinical care, education, and research.

Since the declaration of the COVID-19 pandemic in March, 2020, much of our time and energy has been spent in managing our response. Our faculty members, residents, and fellows have been remarkable during this unprecedented challenge. Along with our Upstate Golisano Children's Hospital colleagues, we have developed novel clinical pathways, new ways of rounding, and new communications channels with families, patients, and each other. We have become adept at donning and doffing of personal protective equipment, and learned the ins and outs of N95 masks and the like. We have updated curricula, developed on-line learning for trainees, colleagues, and the public, developed virtual grand rounds, and become facile at virtual clinic appointments. Research has

led to rapid improvement in prevention and detection of SARS-CoV-2. Pediatrics faculty members have become leaders in preventing, detecting, and treating COVID and its complications at Upstate, in Central New York, and beyond. We have become a trusted source of information regarding the pandemic. We have also become adept at recognizing and managing some of the challenges associated with the pandemic, such as closed hospital beds, challenges to nursing staffing, multisystem inflammatory syndrome in children (MIS-C), and the related epidemic of mental health challenges among children and adolescents.

Despite the challenges of the pandemic, our work beyond COVID has continued. We continue to add faculty and grow pediatric programs. Melanie Comito, MD, Director of the Division of Pediatric Hematology / Oncology, was appointed the first Paige Yeomans Arnold Endowed Professor in Pediatric Oncology in October, 2021, with funding donated by Paige's Butterfly Run. Based on our quality and safety work, Solutions for Patient Safety named Upstate Golisano Children's Hospital the "Hospital of the Month" for July, 2021. Although many professional meetings have been canceled, postponed, or made virtual, department members have continued to earn honors and produce scholarly work at an extraordinary pace, demonstrated by the extensive listings of awards, grants, publications, and more in this report.

Of course, we do not work alone. We appreciate our many collaborators, including community physician partners, colleagues at Upstate Golisano Children's Hospital and University Hospital, and our teaching colleagues at Upstate Community Hospital, Crouse Hospital, St. Joseph's Hospital, and at the Binghamton Clinical Campus. The Upstate Foundation and the Upstate Alumni Foundation provide wonderful programmatic, staff, and educational support.

We welcome and value your feedback. You can keep up with our programs through our website: <http://www.upstate.edu/gch>. Thank you for all you do to support our mission to help children and families!

Gregory P. Conners, MD, MPH, MBA, FAAP, FACEP

Stanley A. August Professor and Chair of Pediatrics

Executive Director, Upstate Golisano Children's Hospital

Department Leadership

Our vice chairs have primary responsibilities for a variety of functions within the department. This group meets regularly with the Chair, and together acts as a deliberative body to set policy and direction. Each also makes independent decisions within his or her area of responsibility.



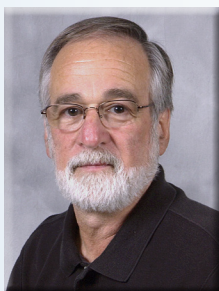
Ann Botash, MD (botasha@upstate.edu) is Vice Chair for Educational Affairs, with responsibility for all aspects of education in the department: undergraduate, graduate, and continuing. This impressive scope of our education services is outlined in this report. Ann has also served Upstate in several leadership roles, including previously as Interim Chair of Pediatrics, and currently as Senior Associate Dean and Distinguished Education Professor. She is also Director of our Division of Child Abuse Pediatrics.

Ann is a well-known figure in pediatrics nationally. She has received the Advocacy Award from the Ambulatory Pediatrics Association, is past-president of the Helfer Society, and is a child abuse pediatrician.



Scott Schurman, MD (schurmas@upstate.edu) continues to serve as our Vice Chair for Clinical Affairs. Scott also directs our highly-regarded and growing program in kidney diseases, as Director of our Pediatric Nephrology Division.

In his Vice Chair role, Scott has ultimate responsibility for clinical activity in the department. He has played an important role in our recent growth in faculty and programs. As we have grown and expanded into new ambulatory areas, Scott has overseen these as medical director.



SUNY Distinguished Service Professor **Leonard Weiner, MD** (weinerl@upstate.edu) rounds out the department leadership team as Vice Chair for Academic Affairs. A former interim chair of our department, with a national reputation for clinical care and research in infectious diseases, Len is well suited for this role. Len has overall responsibility for our research programs, as is shown in our large number of publications and presentations. He is also the long-time Director of our Division of Pediatric Immunology and Infectious Disease.

The leadership team is supported by department office manager **Cherlynn Clarry** (who retired March, 2022), assistant to the chair **Gina Romero Colombo** (romerog@upstate.edu), and business manager **Farrah McMahon** (McMahonF@upstate.edu).



Pediatrics by the Numbers

A few pertinent metrics provide a summary of our child health care activity during 2020-2021. Of course, all of these numbers were markedly affected by the challenges of the COVID pandemic.

Measure	2020	2021
Inpatient discharges	4,266	4,819
Observation patients	1,720	1,809
Average length of stay, days (inpatient and observation, combined)	2.8	2.8
Pediatric ED visits	21,775	27,817
Admissions from Pediatric ED	3,380 (15.5%)	4,062 (14.6%)
Observations from Pediatric ED	1,054 (4.8%)	1,170 (4.2%)
Pediatric outpatient visits	62,140	71,016
Pediatric surgery procedures (age < 19)	3,263	3,675



Thirty-six life-sized fiberglass horses arrived in Syracuse on Dec. 18, 2001, as part of the High Falls Brewing Company's fund-raising community art project, "Horses On Parade." Only a few of the horses still stand in Syracuse today. The one above is at the entrance of Upstate Golisano Children's Hospital.

From the Pediatrics Diversity Committee

The Department of Pediatrics has an active Diversity, Equity and Inclusion (DEI) Committee focused on promoting a sense of belonging and respect for all faculty, residents, and staff, currently led by **Olamide Ajagbe, MD** and **Karen Teelin, MD, MEd**. The committee is open to all, and is currently made of up 12 faculty members, 4 residents, and 6 non-physician colleagues. Consistent with the vision of SUNY Upstate Medical University, we support a culture of openness, humility, and learning. We review recruitment policies, the departmental mission statement, and educational programs for faculty and residents, to ensure that we support and foster a culture of respect for all, regardless of race, ethnicity, gender, sexual orientation, gender orientation, national origin, disability status, or socio-economic status.

Examples of DEI initiatives within the department include:

- A bias checklist for all curricular materials for use when developing educational materials, developed by one of our faculty members, **Amy Caruso Brown, MD, MSc, MSCS**. See the checklist here: <https://redcap.upstate.edu/surveys/?s=KADLRXK8WE>
- A Community Pediatrics and Advocacy course for interns, led by **Travis Hobart, MD, MPH** and others, as well as an advocacy interest group, led by **Winter Berry, DO** including a trip to the state capitol as part of the American Academy of Pediatrics' Advocacy Day.
- A workshop for residents and faculty, developed by pediatric faculty, led by **Dr. Olamide Ajagbe** and presented nationally. "Teaching Residents to Mitigate Prejudice" teaches strategies and offers opportunities to practice interventions when prejudice is witnessed.
- All Grand Rounds speakers are asked to include DEI as aspect of their talk. At least one Grand Rounds per year is specifically focused on a DEI topic. Recent topics include disparities and access challenges related to children's mental health with a focus on the emergency medicine setting, and holistic health for children in the foster care system.
- Third year residents have the unique opportunity to provide primary care to Native American children one morning per month at the Onondaga Nation Clinic.
- Several programs within the division of General Pediatrics address the needs of underserved populations, including a clinic specialized for primary care for children in foster care in Onondaga County, led by **Steven Blatt, MD** with **Jan Bach, MD** as well as a "diaper bank," led by **Winter Berry, DO**.
- A refugee clinic, led by **Andrea Shaw, MD** currently serving over 1400 refugee patients and families from Somalia, Congo, Syria, Afghanistan, and other countries. We have partnered with the Obama Children's Hospital in Kenya, where residents and faculty may rotate for clinical experiences and research. (Last trip February 2020.) We share monthly interdisciplinary case conferences with students and faculty colleagues in Kenya.
- **Nienke Dosa MD, MPH** of the Golisano Center for Special Needs leads partnerships with community-based initiatives focused on adaptive technology, inclusive recreation and adapted sports for children with developmental disabilities.



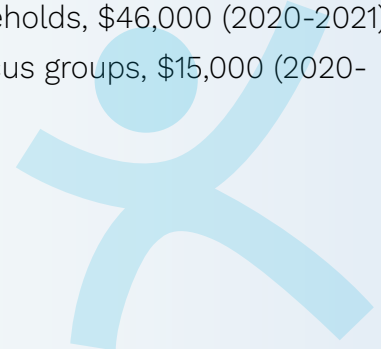
AT Village (ATVillage.org) is a quality improvement initiative provided by the Golisano Center for Special Needs that seeks to improve families' experience with the Durable Medical Equipment (DME) process, to promote interprofessional collaboration and to develop community standards for timely delivery of DME for children with developmental disabilities.

- Our gender clinic, led by **Dr. Karen Teelin**, serves over 400 transgender youth from throughout the state, providing specialized medical care in an affirming, developmentally appropriate setting. Dr. Teelin has presented regionally and nationally, teaching primary care providers to care for transgender adolescents. We host a TransParent and a TransYouth group at the Golisano Children's Hospital, supporting families of transgender children.
- Significant faculty involvement in the undergraduate medical school course focused on DEI topics, Patients to Populations, led by Pediatrics Department faculty members **Dr. Amy Caruso Brown** and **Dr. Travis Hobart**, with seven other faculty from the department serving as group leaders.

The Department of Pediatrics has had many grants, publications, and other scholarly activities related to DEI.

Grants

- *Health and Human Services of Lesbian, Gay, Bisexual, and Transgender Individuals, Families and Communities Component A*. NYS Department of Health AIDS Institute, \$133,000/year for 5 years. (5/2019-5/2024).
- *Open Area Support System (OASUS) free-standing body weight supported harness system for Sensory Movement Exploration Center*. Jim and Juli Boeheim Foundation, \$10,000 (January 2022).
- *Sensory Motor Exploration Center*. Central New York Community Foundation, \$50,000 (July 2021).
- *Sports & Recreation Opportunities for Blind Children: Virtual Camp Abilities and Blind Sport Expo*. DeBoer Fund at Central New York Community Foundation, \$16,000 (May 2021).
- *Fit-In Guide for High School Students*, in collaboration with SUNY Cortland's Inclusive Recreation Resource Center. Jim & Juli Boeheim Foundation, \$10,000 (May 2020).
- *Arise Adaptive Design Home Measurement Kit & Instructional Video*. Kohl's Foundation \$23,800 (July 2020).
- *Family Fun Series DIY Sensory Projects*. John Ben Snow Foundation \$9,000 (January 2021).
- *Child Abuse Medical Provider (CHAMP) Education Initiative, Education and Network of NYS Physicians, Nurse Practitioners and Physician Assistants*. NYS DOH, Rape Crisis Program (CHAMP). \$375,000 (July 2020- 2025).
- *HRSA Grant Take your Shot Syracuse!* Physician consultant, \$750,000. (2021-2022).
- *United Healthcare Foundation, Catholic Charities primary, community-clinic partnership, funding community health navigators* \$200,000 (2021-2023).
- *CNYCC I-Care Innovations Fund* Improving Diabetes Care for Refugees & Immigrants, \$232,638 (2019-2020).
- *Cuse Grant*, research, Comprehensive cardiovascular risk assessment for Refugees \$25,000 (2020-2021).
- *CNY Community Foundation*, COVID-19 PCR to high risk refugee households, \$46,000 (2020-2021).
- *Richard & Jean Clark Pediatric Research Fund Awards*, pilot funds focus groups, \$15,000 (2020-2021).



Education Programs in Pediatrics: Medical Students and Residents

Faculty

Vice Chair for Educational Affairs

Ann S. Botash, MD, Professor of Pediatrics, SUNY Distinguished Teaching Professor

Graduate Medical Education

Elizabeth Nelsen, MD, Associate Professor of Pediatrics, Director of Residency Program

Olamide Ajagbe, MD, Assistant Professor of Pediatrics, Associate Director of Residency

Heather Wasik, MD, Assistant Professor of Pediatrics, Associate Director of Residency

Pediatric Residency Education Committee, led by **Dr. Nelsen**, includes faculty, chief residents, and resident representatives from each training year.

Pediatric Residency Evaluations and Promotions (PREP) Committee, led by **Dr. Wasik**, includes resident faculty advisors and chief residents.

Undergraduate Medical Education

Pediatrics Clerkship Leadership:

Jennifer Nead, MD, Assistant Professor of Pediatrics, Pediatrics Clerkship Director, Syracuse Campus Site Director

Leah Bennett, MD, MPH, Assistant Professor of Emergency Medicine and Pediatrics, Associate Clerkship Director, Syracuse Campus

Paula Farrell, MD, Clinical Assistant Professor of Pediatrics, Pediatrics Clerkship Binghamton Campus Site Director

***Note:** From June–November 2021, **Dr. Leah Bennett** served as interim Pediatrics Clerkship Director and Syracuse Campus Site Director and **Dr. Jaclyn Sisskind** served as interim Pediatrics Clerkship Associate Clerkship Director

Other UGME

Leann Lesperance, MD, PhD, Associate Professor of Pediatrics, Associate Dean for Undergraduate Medical Education

Winter Berry, DO, Associate Professor of Pediatrics, University Pediatric and Adolescent Center site director for the Pediatrics Clerkship

Jaclyn Sisskind, MD, Assistant Professor of Pediatrics, Upstate Pediatrics Office site director for the Pediatrics Clerkship

Career Advocate/Specialty Advisors:

Gloria Kennedy, MD, Assistant Professor of Pediatrics

Matthew Mittiga, DO, Assistant Professor of Pediatrics

John Pires Ervoes, MD (2020 MS4 Advisor)

Docs for Tots Club Advisor:

Anjali Sura, MD, Assistant Professor of Pediatrics

Ann Botash, MD, Distinguished Education Professor and Pediatrics Vice Chair (2020 Advisor)

Student Research Advisor:

Manika Suryadevara, MD, Associate Professor of Pediatrics

Administrative Staff

Patricia Mondore, MA, Residency Program Coordinator

Aubrey Mariani, Associate Residency Program Coordinator & Hospitalist Fellowship Coordinator

Christine Kuenhle, Clerkship Coordinator, Syracuse Campus

Kelly Cortright, Clerkship Coordinator, Binghamton Campus

Overview

The education faculty represents a variety of pediatric specialists as well as general pediatricians. The team works closely with residents, chief residents, students and other faculty to ensure attention to the educational needs of our learners. Learners include students, residents, fellows, faculty and staff.

Graduate Medical Education

For 85 years, the Department of Pediatrics has maintained a residency training program in general pediatrics that provides residents with a strong foundation in primary care pediatrics, acute care medicine and all subspecialties. Our collegial environment allows a “hands on” approach with a low faculty to resident ratio. Due to the large catchment area served by the department, residents directly care for patients with a vast array of medical problems. Residents are actively involved in varied learning experiences such as resident run journal clubs, research and pathophysiology conferences, case-based ambulatory care and subspecialty conferences, daily rounds with faculty, weekly grand rounds, and regular discourse with visiting professors. Our curriculum has prepared residents for fellowship training in subspecialties and careers in primary care pediatrics across the country.

The residency program has received continued accreditation from the ACGME for 85 years and counting.

The Residency Curriculum

The curriculum enables residents to become competent in all areas of Pediatrics. Some highlights of the curriculum include:

- **Didactics:** The core didactic curriculum for residents offers an innovative approach to learning. Residents participate in a case-based teaching by expert faculty teachers. The curriculum covers all of the domains represented in the American Board of Pediatrics content outline for the General Pediatrics Certification Exam.
- **Primary Care:** Training in outpatient general pediatrics is based at the Upstate Pediatric and Adolescent Center (UPAC). Residents also have the option of participating in a longitudinal outpatient clinical experience at the Onondaga Nation Clinic during their third year. Residents also maintain their own unique patient panels as part of continuity clinic, which is also based at UPAC. In the third-year residents can seek out additional opportunities in private practices in the community to enhance their training and education.
- **Critical Care:** Upstate Golisano Children’s Hospital Pediatric Intensive Care Unit (PICU) is the setting for training in Pediatric Critical Care Medicine. Residents provide direct patient care for the sickest children in Central New York, who are admitted with a wide-range of conditions.
- **Emergency Medicine:** Residents serve on the front line to care for children up to 19 years of age who come with medical or surgical emergencies to the area’s only Pediatric Emergency Department. The department conducts over 25,000 visits annually. Residents are supervised by board certified Pediatric Emergency Medicine faculty.
- **Developmental Pediatrics:** This rotation takes advantage of the outstanding community resources in child development, as well as those at our newly opened Golisano Center for Special Needs. The

Center is home to services for children with developmental and behavioral problems, including the autistic spectrum disorders, as well as those with complex medical conditions, such as spina bifida, cerebral palsy, and genetic disorders.

- **Inpatient:** Dedicated pediatric hospitalists provide oversight and direct care for the inpatients at the Upstate Golisano Children's Hospital. They also provide consultative care to other medical and surgical patients. Hospitalists also serve as educators for residents and medical students on their inpatient rotations. Trainees participate in family centered rounds with attendings, mid-level providers, nurses, and other staff.
- **Subspecialties:** The training program provides comprehensive experiences in the pediatric subspecialties. Residents have elective time that allows them to explore different specialty areas to deepen their knowledge and consider opportunities for fellowships. Residents have one call-free block during residency that they can use for away rotations elsewhere in the United States or overseas with the Global Health program.
- **Summer Advocacy Series:** This intern-only conference series introduces new trainees to community pediatrics and advocacy in the context of our local setting. These didactic sessions cover topics including early childhood literacy, environmental health, and legislative advocacy and concludes with a narrated bus tour of the city.
- **Teaching Skills for House Staff:** This quarterly series has been offered for over 20 years and is designed to meet the needs of residents as teachers. The series addresses topics including delivering effective lectures, teaching at the bedside, providing feedback, evaluating students and serving as a role model. Residents also have an option of an elective in teaching skills.
- **Club Med (Resident-run Journal Club):** Senior residents present interactive sessions designed to analyze recent literature and demonstrate possible effects on practice.
- **Global Health:** Residents and students can participate in international health activities during their third year of training. We have a partnership with Obama Children's Hospital in Kisumu, Kenya, where our residents interact with trainees and provide bedside and didactic teaching while they learn about providing care in resource-limited settings. Residents provide care for refugee patients locally in nearly all of their clinical rotations.
- **Research:** Many of our residents participate in active research with faculty. Residents are encouraged to write up clinical cases for publication and many manuscripts reported throughout this document were authored or co-authored by our residents and students.
- **Primary Care Skills Rotation and Career Pathways:** All interns rotate through Primary Care Skills (PCS), which serves as the first of the six career pathway rotations. PCS is a rotation designed for interns to gain new knowledge and skills in the areas of advocacy, global health, and research. It combines both in-person and virtual learning experiences to serve this goal. At the end of the intern year residents select from one of three career pathways designed to give residents more time to practice and enhance skills in the areas of advocacy, global health, and research. Residents meet with a pathway advisor to determine which rotations will best fit their personal career goals.
- **Quality Improvement:** The Division for Quality Improvement provides four hours of patient safety/quality improvement didactics annually. Residents obtain a Basic Certificate in Quality and Safety from the IHI Open School during their intern year. All residents complete a quality improvement project prior to graduation. Residents receive mentorship from dedicated quality improvement faculty to help with their projects, with most completing projects of their own design in teams. Some go on to have their projects presented externally. Eligible projects are awarded part 4 Maintenance of Certification (MOC) credit by the American Board of Pediatrics.

- **Morbidity and Mortality (M&M):** All third-year residents prepare and present an event review for M&M at departmental grand rounds. Residents have a timeline for their case analysis using quality and safety tools. They benefit from expert faculty mentorship and interdisciplinary collaboration. Presentations include a description of recommendations to improve processes and have a positive impact on systems. In the first 2 years after designing M&M in 2019 we have had 28 conferences yielding 61 recommended systems improvements, of which 20 have been implemented thus far.

Resident Teaching Awards: Residents are recognized by the department on an annual basis through clerkship student identification of exemplary resident teachers. These are awarded each year at the resident graduation ceremony held in June.

Undergraduate Medical Education

Pediatrics Clerkship: Our 5-week clerkship provides pediatric education to approximately 170 third year medical students every year. Students are assigned to either the Syracuse or Binghamton clinical campus. At both locations, students participate in outpatient and inpatient direct patient care experiences. In Syracuse, medical students rotate on the inpatient hospital medicine service teams and work closely with pediatric residents and hospital medicine attendings. Students rotate at general pediatric outpatient offices either at the Upstate main campus or in the community. Some students also have pediatric outpatient subspecialty experiences built into their schedules. All students participate in newborn medicine clinical experiences at Upstate or other hospitals in our community.

The clerkship objectives include six domains – Patient Care, Medical Knowledge, Interpersonal Communication Skills, Practice Based Learning, Systems Based Practice and Professionalism. Students actively participate in direct patient care, teaching rounds/discussions about patients, and interactive small group learning sessions or conferences (examples include adolescent medicine case discussions and pediatric history and physical examination skill sessions). Students give evidence-based medicine (EBM) presentations on focused clinical questions that arise during their care of patients. Faculty within the Department of Pediatrics serve as EBM small group discussion facilitators evaluating student presentations. Students write reflective narratives regarding professionalism and systems-based practice issues (topics include systemic/institutional bias and health equity). Faculty members, including the Chair of Pediatrics and Vice Chair for Educational Affairs, review and select narratives for discussion. Faculty facilitators and students from both clinical campuses subsequently join each other to participate in small group discussions.

Docs for Tots: Students in the first and second year of medical school participate in a pediatric club offering seminars, mentoring, physical examination skills rounds and advocacy/fund raising events for children. This program generally includes 25-40 students.

Pediatric Electives are offered in all specialties, including “unique” electives and concurrent electives.

MS4 Advising: Students planning additional education and/or careers in pediatrics have many opportunities for electives, research and scholarship, and acting internships. Matthew Mittiga, DO and Gloria Kennedy, MD work closely with students to provide individual specialty guidance and support.

Recognition/Awards

Faculty:

Several Pediatrics faculty members were honored with 2020 Exceptional teacher recognition for their contributions to the Pediatrics clerkship program: **Leah Bennett, MD, MPH, Joshua Bonville, MD, Robert Dracker, MD, Nate Meuser-Herr, MD, Matthew Mittiga, DO, Matthew O'Connor, MD, Jaclyn Siskind, MD, Brian Tran, DO, and Prateek Wali, MD.** Several Pediatrics residents were also recognized: **Andrew Brooks, DO, Andrew Smith, DO, Holly Stacey, MD and Evan Ho, MD.**

Dr. Brian Tran also received “Exceptional Moments in Teaching” recognition from the Dean of the Medical School in May, 2021.

Jennifer Nead, MD received the 2021 President’s Award for Teaching.

Pediatric Residents:

Drs. Holly Stacey and Andrew Brooks won 2021 Humanism and Excellence in Teaching Awards, as selected by Upstate fourth-year medical students.

Rohan Akhouri, MD, MPH, Dean Karahalios, DO and Holly Stacy, MD were elected into the Alpha Omega Alpha medical honor society by Upstate medical students, in 2021.

Vaishali Adlakha, MD and her team, which included **Rohan Akhouri, MD, John Andrade, MD** and **Saurabh Gupta, MBBS** won the “Best Clinical Case Presentation” award at the 2021 Eastern Society for Pediatric Research.

Laura Mejia-Connolly, DO won the Upstate-wide 2021 GME Resident Award for Teamwork.

Laaibah Ejaz, MD was selected for the 2021-22 Promoting Resident Experiences in the Subspecialties at Stanford Program with the Stanford School of Medicine Department of Pediatrics.

Selected Continuing Medical Education

The department offers weekly **Pediatric Grand Rounds** provided to local pediatric healthcare practitioners in the Upstate Golisano Children’s Hospital community. One Grand Rounds per month is dedicated to a morbidity and mortality case. Yearly special events include funded, visiting professorships provided by nationally recognized invited speakers.

Part 2 ABP MOC: Evaluating Child Sexual Abuse, an interactive educational activity for the practitioner about child sexual abuse examination and treatment, was developed by Ann Botash, MD and provides 20 Part 2 MOC credits.

American Board of Pediatrics MOC Portfolio Program: A committee of faculty is entrusted with evaluating quality improvement projects on behalf of the American Board of Pediatrics for MOC Part 4 credit. Since initiation in 2019, we have approved 9 separate quality improvement projects put forth by our residents and faculty, and have been approved for a 2-year program renewal.

Pediatric Hematology/Oncology: Provides weekly sessions which consist of a multidisciplinary Pediatric Tumor Board, Hematology Case Conference, and a Vascular Anomalies Tumor Board with CME credit available.

Educational Outcomes

Graduates of our residency program go on to careers in primary care practice and in academic medicine, in the subspecialties and in general pediatrics. Roughly half of our residents pursue subspecialty training in a variety of clinical domains. Our residents have joined outpatient primary care practices or academic departments in the Syracuse area as well as various communities in New York State, across the United States, and internationally. We recruit 1-3 chief residents per year from the graduating class and from other programs.

Our pass rate for the American Board of Pediatrics General Pediatrics Certifying Examination for first-time test takers is over 70% for the last five years.

On the NBME subject exam in Pediatrics, taken by medical students completing their Pediatrics clerkship experience, students scored above the national mean for those taking a 5-week rotation.

Pediatric Resident Research

All pediatric residents participate in one or more research / quality improvement projects with faculty prior to graduation. Residents benefit from mentorship from a variety of areas to complete their projects. In addition to their quality improvement work, residents undertake other research projects, ranging from case reports to education. From 2020 to 2021, 16 resident abstracts were selected for presentation as posters or platform presentations at regional and national meetings.

Rohan Akhouri, MD, MPH was selected for the AMSPDC 2020 Frontiers in Science Symposium.

Richard Johnson, MD and **Laura Mejia-Connolly, DO** were selected for the AMSPDC 2021 Frontiers in Science Symposium.

Student Research

Students have many opportunities to participate in research in the Department of Pediatrics. Our student research advisor, **Manika Suryadevara, MD** works with students to help identify appropriate research mentors in the department of pediatrics. Financial support is available.

Education Budget

The departmental educational budget, including faculty, staff and other (non-personnel) expenses are just under \$1 million.

Philanthropic Support

Several funds are used to support the educational mission including: the Dr. Fredrick Roberts Fund and the Slater Award fund for honoring resident teachers.

Grant Funding

The New York State Department of Health, Doctors Across New York: Ambulatory Care Training Grant was awarded January 2018- June 2021; PI: Ann S. Botash, MD, with JoAnne Race, MSc & collaborators: George Blakeslee, MSW, James Peacock and Zsuzsa Mesaaros, MD, PhD. (Pediatrics/Psychiatry/ Onondaga Nation) Funding supported student and resident rotations in rural pediatric practices. Grant award terminated due to COVID-19, March 31, 2020. \$799,077



2021 Pediatric residents
in front of Golisano
Children's Hospital.

Child Abuse Pediatrics

Faculty

Ann S. Botash, MD, Distinguished Education Professor of Pediatrics, Division Director; Norton College of Medicine Senior Associate Dean for Academic Affairs; Vice Chair for Educational Affairs, Pediatrics; Associate Fellowship Director

Alicia Pekarsky, MD, Associate Professor of Pediatrics, Fellowship Program Director

Fellows

Iram Ashraf, MD (2018- 2021)

Heather Ross, MD (anticipated 2020-2023)

Administrative Staff

JoAnne Race, MSc, Child Abuse Fellowship Coordinator; Clinical Instructor, Pediatrics, and Principal Education Specialist

Staff

Nancy Mitchell, PNP, Clinical Instructor, Pediatrics

Kristin Razawich, PNP, Clinical Instructor, Pediatrics

Anne Galloway, RN

Elizabeth Kinsey, MSW (retired 2021)

Temika Mclarin, Administrative Assistant

Clinical Overview

Founded in 1990, the Child Abuse Referral and Evaluation (CARE) Program, through its offices at the McMahon Ryan Child Advocacy Center (CAC), provides medical evaluations for children who are suspected to be maltreated or abused. The CARE team consists of two American Board of Pediatrics-certified Child Abuse Pediatricians, and specially trained nurse practitioners, nurses, and social workers, who work together in managing suspected child and adolescent victims of maltreatment. Medical care and treatment are provided for children 21 years of age or younger in a sensitive, supportive, and reassuring environment. In 2020, the Child Abuse Pediatrics consult service was expanded to include an inpatient service to better serve inpatient needs. This has been a highly successful service in terms of ensuring appropriate medical evaluations, communication with investigative agencies and safety plans.

Educational Highlights

Since 2018, the Division of Child Abuse Pediatrics has supported an ACGME accredited Child Abuse Pediatrics Fellowship, which is a collaboration between Upstate Golisano Children's Hospital at SUNY Upstate Medical University and the McMahon Ryan Child Advocacy Center (CAC). This unique training program provides opportunities for a broad clinical experience as well as robust opportunities for research and scholarly activities. Fellows are part of the CAC's multidisciplinary team. The CAC integrates advocacy, prevention, investigation, prosecution, and treatment services for cases involving all aspects of physical abuse, sexual abuse, human trafficking, and other forms of child maltreatment. The CAC coordinates Onondaga County's Child Fatality Review Team. Fellows have had the opportunity to provide culturally sensitive general pediatric care in a longitudinal experience at the Onondaga Nation Health Center, an outpatient health care clinic on the Onondaga Nation, or at University Pediatric and Adolescent Center (UPAC). Educational content is covered through a variety of conferences and didactics, including quarterly journal clubs, lunch and learns, educational

webcasts, weekly case rounds, and an annual conference. Fellows also earn a Certificate in Advanced Study in Public Health.

The Division manages the Child Abuse Medical Provider Program (CHAMP), funded through the New York State Department of Health. CHAMP improves New York State's medical response to child abuse. Weekly case conferences with NYS CAPs, educational webcasts, on-line courses and practice recommendations are produced through this program to support medical providers in the field.

<http://champprogram.com>

The Division offers electives for medical students, pediatric and family practice residents, and fellows from other specialties (including Emergency Medicine and Child & Adolescent Psychiatry). Our elective is highly sought after.

Drs. Ann Botash and Alicia Pekarsky are Upstate Medical University Learning Community clinical advisors for all four years of medical students.

Research Highlights

This past year, the Division participated in a research pilot study on Saliva microRNA signatures in children with moderate-to-severe brain injury in collaboration with investigators at Penn State University, the Pediatric Intensive Care Unit, and the Upstate Departments of Surgery and Neurosurgery.

Fellows: **Dr. Ashraf** completed her quality improvement study on follow up skeletal surveys and has a manuscript in preparation. **Drs. Ashraf, Botash, and Pekarsky**, and several collaborators updated the online CHAMP Skeletal Survey recommendations. **Dr. Ross** is interested in factors impacting the length of hospital stay in abused children and has implemented a study. She is seeking funding to support scene investigation for investigative agencies in cases of suspected maltreatment.

Dr. Pekarsky was selected for, and is serving as a guest editor for a special edition of *The Quarterly*, a journal of reviews for recent peer-reviewed medical literature on the diagnosis, prevention and treatment of child abuse and neglect. Dr. Pekarsky was the site Principal Investigator for a research network [Examining Siblings to Recognize Abuse (ExSTRA) investigators] that continues to publish manuscripts. She has been a contributor for two peer-reviewed articles.

Dr. Botash is developing new CHAMP material to address racism and bias in child abuse investigations, management and treatment and co-authored a *Pediatrics* publication on this topic.

Division Highlights

The Division of Child Abuse Pediatrics was officially formed in 2020. In the Fall of 2020, **Dr. Pekarsky** relaunched the Inpatient Child Abuse Pediatrics consult service after a 10-year hiatus. As Director of this service, Dr. Pekarsky worked with hospital medical services and community agencies to assess their specific needs, developed a service to meet those needs, and addressed staffing/scheduling issues. During the first 12 months of the service, the team evaluated approximately 150 hospitalized children who were suspected to have been abused. Due to this demand, we expanded our NP support from **Nancy Mitchell, PNP** (who has worked with the program for over 30 years) to add **Kristin Razawich, PNP** as a full-time team member.

Dr. Botash instituted the CAP Fellowship and was the CAP Fellowship inaugural Program Director. In 2020, **Dr. Pekarsky** assumed this role. **Dr. Ashraf** graduated in 2021, and is developing a program as full time Child Abuse Pediatrician in Buffalo, NY. The fellows, along with both faculty members, presented at the Helfer Society Meeting in April 2021.

Dr. Pekarsky has continued in her role as the pediatrician representative to the NYS Children's Justice Task Force (sponsored by NYS Office of Children and Family Services), following **Dr. Botash**, who served from 1993-2015. In 2020, Dr. Pekarsky was also selected to participate in NY State's newly formed Child Fatality Review Team.

Grants and Contracts

The CARE program has contracts to support the multidisciplinary child abuse teams in Onondaga County through the McMahon Ryan Child Advocacy Center and the surrounding counties, including Oswego, and Cayuga counties.

The CHAMP Education Initiative, Education and Network of NYS Physicians, Nurse Practitioners and Physician Assistants, New York State Department of Health, Rape Crisis Program. PI, Ann S. Botash, MD. 2020-2025. \$375,000.

The CHAMP program has been supported by grant funding from the New York State Department of Health (DOH) since 1997, administered by the Research Foundation of SUNY for the Child Abuse Referral and Evaluation Program. Key components of CHAMP education include in-person mentoring by American Board of Pediatrics certified child abuse pediatricians, "live" virtual webinars offered six times per year, weekly CHAMP rounds for and with experts in the field, and online asynchronous coursework. The CHAMP Mentors are NYS child abuse pediatricians who provide free training to medical students, interns, fellows and pediatric medical providers through CHAMP webcasts and in-person education at their clinics.

For the 2020-2021 grant year, the [CHAMPProgram.com](http://www.CHAMPProgram.com) website drew over 307,000 visitors. In addition to viewing web pages, visitors downloaded a significant number of resources. Tracking the number of downloads from the top 150 resources offered on the website, there were over 28,000 downloads. That total includes over 3,200 Practice Recommendations related to Triage, Testing and Treatment, Skeletal Survey, Photographic Documentation and Writing an Impact Statement; and over 1,700 Guidelines related to Evaluation of Physical Abuse, Evaluation of Sexual Abuse and Trauma-Informed Care. The 24 questions and answers of Test Your Knowledge were visited over 63,000 times and the individual questions and answers of What Would You Do? regarding nine child trafficking cases were visited 4,000 times. The CHAMP website is at <http://www.CHAMPProgram.com>.

Clinical Snapshot



Pediatric Critical Care

Faculty

Angela Wratney, MD, MHSc, Division Director, Assistant Professor of Pediatrics,

Pediatric Director of Respiratory Care, College of Medicine Director of Interprofessional Education

Rachel Clarke, MD, Assistant Professor of Pediatrics

William Hannan, MD, Associate Professor of Pediatrics

Sarah Harding, MD, Assistant Professor of Pediatrics

Kimberly Rush, MD, Assistant Professor of Pediatrics

Neal Seidberg, MD, Associate Professor of Pediatrics; Chief Medical Information Officer, Upstate University Hospital

Jennifer Zuccaro, MD, Assistant Professor of Pediatrics

Clinical Overview

The Division of Pediatric Critical Care provides expertise in critical care for children in Central New York at the only regional Level I pediatric trauma and American Burn Association (ABA)-verified pediatric burn center. We serve 21 counties and over 750 pediatric intensive care unit (PICU) admissions each year. Our PICU is a 15-bed multidisciplinary unit staffed by board certified pediatric intensivists and critical care trained registered nurses (RN) and respiratory therapists (RT). Pediatric Critical Care intensivists are Board Certified in a 3-year General Pediatrics and a 3-year Pediatric Critical Care fellowship training.

The critical care team provides comprehensive care for children with post-operative recovery, post-renal transplant care, life-threatening illness or organ dysfunction, cardiopulmonary resuscitation, traumatic brain injury requiring neurocritical care and rehabilitation, pre- and post-surgical management for congenital heart disease, critical asthma, diabetic ketoacidosis, septic shock, mechanical ventilation for respiratory failure, multi-organ system support, and are expertly trained in pediatric brain death and post circulatory death evaluation and support for organ donors. Pediatric Critical Care co-manages patients with Pediatric Trauma and Surgery colleagues, collaborates with all subspecialty teams, palliative care and with the CNY Finger Lakes Donor Regional Network. Our team also provides care throughout the hospital through rapid resuscitation and code response teams. Our Pediatric Critical Care transport team is comprised of experienced transport RNs and RTs.

Educational Highlights

Residency Training: Pediatric critical care physicians participate in all areas of Pediatric Residency program training, such as the Pediatric residency education committee, residency morbidity and mortality grand rounds, as core faculty and mentors, in simulation-based education, didactic education, leadership mentoring, and as quality improvement scholarship mentors. Critical care faculty have helped co-author several resident presentations at national, regional, and local meetings. Critical care faculty lead in-situ simulation scenarios every week for the residents.

In the PICU, resident education and fostering an academic approach to inquiry and critical care is strongly emphasized. Second-year and third-year Pediatrics residents, Emergency Medicine residents, Pediatric Emergency Medicine fellows, and Anesthesiology residents are integrally involved in patient care and multidisciplinary team management of all PICU patients. Residents consistently rank this educational environment and training as one of the strongest and formative experiences in their training. We are proud that, in the prior 4 years, we have supported 6 excellent Pediatrics residents into competitive spots in Pediatric Critical Care fellowship training, and one second-year Pediatrics resident into a competitive PICU away rotation at Stanford.

Fellowship Training: We do not have a PICU Fellowship training program. We do have rotations in our PICU for fellows from Upstate programs in Pediatric Emergency Medicine, Child Abuse, and soon will have Pediatric Hospitalist Medicine Fellowship PICU rotation.

College of Medicine: PICU Faculty serve as facilitators for the evidence-based medicine instruction, ethics and professionalism in Patients to Populations and Practice of Medicine courses. The PICU Acting Internship rotation for MS IV students is highly sought after and receives excellent feedback on the training environment and preparation for residency.

Core Faculty on the Upstate Interprofessional Education (IPE) Team: Co-developed the “Giving Bad News” interprofessional simulation experience for the Transitions to Residency program, facilitate simulation-based education, skills labs at the Simulation Center and in the cadaver lab. IPE supports the college curriculum committee and mission for student education. We conduct large group facilitation combining attendance from four colleges at Upstate annually. Lead facilitator training for the BEST course and for the Academy of Upstate Educators, Faculty Development and Education seminars, and for the Leadership Course “LEAD” for Upstate Faculty development.

Upstate and Le Moyne Physician Assistant Programs: We support the Physician Assistant (PA) training programs affiliated with Upstate to help train two selective PA students in our PICU.

Observers: Our PICU serves up to four observers from the Upstate Pediatrics observership application process. Some become our future residents!

Research Highlights

Pediatric critical care team members are integrated into research, quality and safety advances at Upstate. These include presentations at local, regional, and national meetings in simulation-based education, residency skills development, multi-modal analgesia for pediatric burn patients, improving the rapid response team, prevention of unintended extubations, and multicenter research publications in *Pediatric Critical Care*, *Rheumatology*, and the *Journal of Pediatric Critical Care Medicine*.

We are active members of Children’s Hospital Association multicenter groups for Improving Pediatric Sepsis Group Outcomes (IPSO) and the Solutions for Patient Safety (SPS) quality bundles. We have had zero central line-associated blood infections, zero catheter associated urinary tract infections, zero pressure injuries, and zero unintended extubations for over one year, four remarkable achievements.

Pediatric critical care team members are leading four quality improvement initiatives: (1) a bedside rounding tool to review safety, quality checks, and patient goals; (2) Finger Lakes Donor Regional Network-PICU Collaborative to achieve targeted quality metrics and improve patient-centric end-of-life care; (3) improving the pediatric rapid response team performance; (4) Pediatric ICU Liberation initiative to improve awareness, education, and implementation of a pediatric early mobility program, withdrawal assessment and delirium screening, and the creation of EPIC-templates for the liberation components and extubation practices.

Division Highlights (for past 5 years):

Additional Certifications, Awards & Service to Upstate and Community:

Dr. Rachel Clarke: Bioethics; P2P Ethics Facilitator; Post-doctoral Bioethics Research Fellowship, Center for Bioethics, Social Science and Medicine at the University of Michigan, Ann Arbor; 2017 Edward O. Reiter resident teaching award.

Dr. Sarah Harding: Quality Improvement; 2017 Robert C. Coddington resident award for research excellence; 2017 Resident Quality Improvement and Patient Safety award.

Dr. William Hannan: Board certified and practicing Pediatric Rheumatologist; 2019 Best Doctors in America Pediatric Rheumatology; 2018 Special Recognition, Pediatric housestaff.

Dr. Kimberly Rush: PICU Liberation QI, delirium and withdrawal, Pharmacy P+T committee; 2022 American Federation for Medical Research Scholar Award for abstract.

Dr. Neal Seidberg: PICU Transport team lead; pediatric chief medical informatics officer; Upstate Hospital Director, Medical records; chair of the Upstate forms and of orderset committees; member Air Upstate drone team; member robotics team, member clinical pathways team; Trauma PI alternate.

Dr. Angela Wratney: Safety, communication, respiratory, resuscitation and IPE Teamwork; Division director; College of Medicine IPE director and core IPE team member; pediatrics respiratory director; Masters of Clinical Research (MHS) Duke Clinical Research Institute; Certified Health Simulation Educator (CHSE, Society of Simulation in Healthcare); PALS Instructor; ACLS Instructor; American Burn Life Support certified; Simulation Advisory Board member; SUNY SAIL Clinical Leadership certificate; TEAMSTEPPS Master Trainer; iSIM Wisser Simulation training certificate; PICU AI Course Director; Pediatric residency core ACGME program faculty; Trauma PI and Burn PI representative; 2019 Presidential Campus Team of the Year for IPE and 2019 Upstate Compassionate and Connected Caregiver award; 2019-21 ABP Subspecialty Board Review Writing Committee; 2018 George Washington University Hackathon finalist; 2017 PI, Resident Education Project Finalist.

Dr. Jennifer Zuccaro: in situ simulation and resuscitation, sepsis; board certified Pediatric Cardiology; Certificate Harvard Medical Simulation Program; iSIM Wisser Simulation training certificate; President of the American Heart Association for the Greater Utica Area.



The Division of Pediatric Critical Care provides comprehensive medical and perioperative surgical care to critically ill children from Syracuse and the surrounding 17-county area. Patients are cared for in a 15-bed pediatric intensive care unit (PICU) by an interdisciplinary team led by a pediatric critical care doctor. The team consists of general pediatric residents, intensive care nurses, respiratory therapists, pharmacists, dietitians, and child life personnel.

Developmental, Behavior & Genetics

Faculty

Henry S. Roane, PhD, Professor of Pediatrics and Psychiatry and Behavioral Sciences,
GS Liptak Professor of Child Development, Division Director

Golisano Center for Special Needs:

Andrew Craig, PhD, Assistant Professor of Pediatrics

Nicole DeRosa, PsyD, Associate Professor of Pediatrics

Nienke Dosa, MD, MPH, Upstate Foundation Professor of Child Health Policy

Louis Pellegrino, MD, Associate Professor of Pediatrics

Anne Reagan, PsyD, Clinical Instructor of Pediatrics

William Sullivan, PhD, Assistant Professor of Pediatrics

Jason Zeleny, MS, Clinical Instructor of Pediatrics

Christina Alaimo, PhD, Clinical Instructor of Pediatrics

Clinical Overview

The Division of Development, Behavior, and Genetics is a collaboration of programs aimed at providing comprehensive, innovative family-centered health care to children with various types of disabilities, developmental, and behavioral issues. Faculty and staff advocate for and support patients and their families by promoting independence, and community collaboration.

The division is comprised of several specialty programs which include the Golisano Center for Special Needs, which provides diagnosis and ongoing medical care for children who have autism and other developmental disabilities; Applied Behavior Analysis, providing behaviorally oriented assessment and treatment services for children with autism and related developmental disabilities who display destructive behavior such as self-injurious behavior, aggression, property destruction, food refusal, elopement, and pica. The Division also includes physical disabilities, providing diagnosis and ongoing care, including tone management (botox injections) and assistance with accessing assistive technology for children who have physical disabilities such as cerebral palsy and spina bifida. As an affiliate of the Center for Disease Control and Prevention's National Spina Bifida Patent Registry, comprehensive specialty care is provided for children, adolescents, and young adults with spina bifida.

Pediatric Psychology Inpatient Consultation service offers diagnostic and clinical intervention to inpatients who have either developed psychological or behavioral health concerns related to their hospitalization and medical diagnosis, or for patients who previously had mental health concerns that are negatively impacting their treatment and recovery. Pediatric Behavioral Health Clinic provides outpatient psychological services to diagnose and treat the psychological impact of a chronic medical condition and to manage previous existing psychological and behavioral health concerns exacerbated by a chronic medical condition or acute illness.

Patients are seen in the Center for Development, Behavior, and Genetics which is housed on the lower level of the Physician's Office Building or in the Golisano Center for Special Needs which is housed in the Madison Irving Medical Building.

Educational Highlights

Dr. Pellegrino supervises the educational experience of first-year Pediatrics residents who have a required one-month rotation with the division, which includes clinical and didactic activities as well as a required written project and oral presentations. Dr. Pellegrino has developed an online platform

of education materials, which includes required quizzes emphasizing questions similar to those found on the pediatric board examinations. In addition, Dr. Pellegrino has developed and maintains a series of video lectures on topics related to developmental disabilities, including those housed on the Upstate Blackboard site, and he organizes the yearly child development conference series for Pediatrics residents and third-year medical students.

Dr. Dosa holds the Upstate Foundation Professorship in Child Health Policy and is a Senior Fellow at Syracuse University's Burton Blatt Institute. Dr. Dosa is a regularly invited lecturer and panelist in the areas of adaptive design, pediatric mobility, and inclusive fitness, and her academic work spans health policy development.

Dr. DeRosa coordinates a Master's program in Behavior Analysis Studies in Upstate's College of Health Professions. This program includes faculty from the division. Students receive their didactic and practical experiences in the clinics at the Madison Irving site.

Research Highlights

Drs. Roane and Sullivan have long-standing interest in developing novel behavioral interventions for children with co-morbid autism spectrum disorders and behavior problems. Dr. Roane is part of a multi-center program sponsored by Autism Speaks developing randomized clinical trials for treatment challenging behavior among individuals with autism spectrum disorders. Dr. Roane also receives clinical funding from Autism Speaks to participate in research through Quadrant Biosciences.

Dr. Dosa has an interest in the development and evaluation of community-based models for developmental disability care. Dr. Dosa was honored with the 2016 ARISE Foundation Champion of Independence Award for her extraordinary efforts to expand opportunities for people who have disabilities, including her work in connection with the transition to adulthood and inclusive fitness across the lifespan. In addition, Dr. Dosa is part of a multi-center study to evaluate the care of individuals with spina bifida.

Dr. DeRosa is in the final year of her NIH-funded project teaching communication variability to individuals with autism spectrum disorder.

Division Highlights

A new clinic and inpatient service on mental health is under development, offering psychological and behavioral health consultation, clinical diagnosis and treatment addressing the negative impact of medical conditions, illness, and hospitalizations. **Dr. Nienke Dosa's** work in the area of adapted sports and ballet programs for children with physical disabilities has been the focus of numerous scientific and media publications.

Dr. Henry Roane was appointed to the National Institutes of Health – Child Psychopathology and Developmental Disabilities Study Section. Dr. Roane was elected to the Board of Directors for the Association for Professional Behavior Analysts and has been a member of the Board of Directors for the Society for the Experimental Analysis of Behavior. Dr. Roane was also selected as the Editor-in-Chief for Behavioral Development Bulletin, a multidisciplinary journal published by the American Psychological Association. Dr. Roane was selected for the 2022 Nathan Azrin award from the American Psychological Association for career contributions to the field of Applied Behavior Analysis.

Dr. Andrew Craig won the 2021 BF Skinner Award from the American Psychological Association for being named the best early career researcher in the field of behavior analysis. Dr. Craig also won the 2022 Joseph Brady award from the American Psychological Association for having the most impactful journal article in that year (his work on randomization tests).

Grants and Contracts

Dosa N

TRAID on the Trails, adaptive cycling event at Cedar Bay, Erie Canal, Dewitt NY. Erie Canal Corporation. PI. 2021

Sensory Motor Exploration Center. Central New York Community Foundation, PI. 2021.

Sports & Recreation Opportunities for Blind Children: Virtual Camp Abilities and Blind Sport Expo. DeBoer Fund at Central New York Community Foundation. PI. 2021.

DeRosa N

A behavioral economic approach to improving communication variability and treatment efficacy. National Institute of Child Health and Human Development with the National Institutes of Health. PI. 2019-2021.

Roane H

Enhanced Intensive Behavioral Services. New York State Office for People with Developmental Disabilities (OPWDD). PI. 2012-2022.

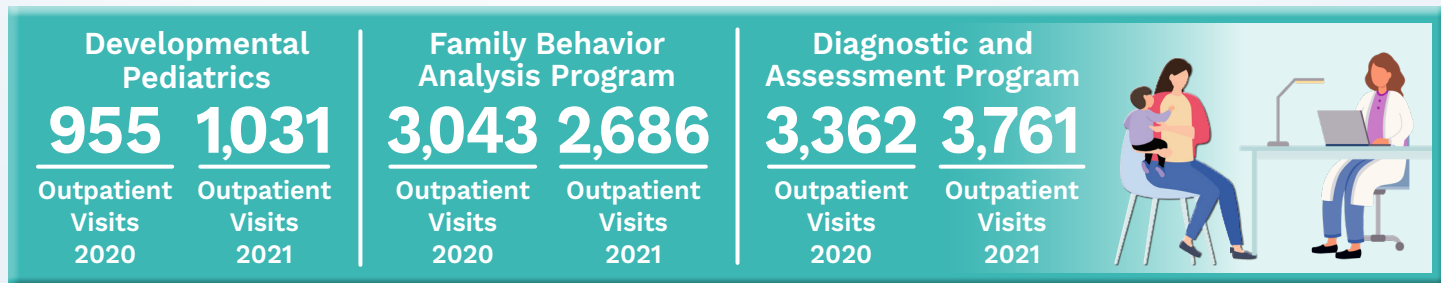
Community and School-based Services for Children with Autism. 2013 Family Support Services. New York State Office of Mental Retardation and Developmental Disabilities (OMRDD). PI. 2013-2022.

Developing an RCT for assessing and treating significant challenging behavior in persons with autism. Autism Speaks Research Planning Grant. Co-investigator. 2022-2023.

Quadrant Research Project: SUNY Upstate site. Autism Speaks. PI. 2022-2023.

Golisano Center for Special Needs; Tom Golisano and the Upstate Foundation. PI. 2020-2022.

Clinical Snapshot



The Center for Development, Behavior and Genetics provides patients with developmental diagnostic assessments, consultation and intervention services for children, birth through seven years of age, who are "at risk" for or have a developmental disability.

Since opening in 1982, the Center has specialized in providing services for children with complex developmental difficulties, including autism spectrum and related disorders.



Pediatric Clinical Genetics

Faculty

Robert Roger Lebel, MD, MS, MA, MDiv, STM Professor of Pediatrics, Section Chief through January, 2022

Joan Pellegrino, MD, Associate Professor of Pediatrics, Section Chief as of January, 2022

Clinical Overview

The Division of Clinical Genetics is comprised of two specialty programs: Medical Genetics, and the Metabolic program. The Medical Genetics program provides comprehensive diagnostic evaluation and genetic counseling for children and adolescents. Patients are seen by both a clinical geneticist and a genetic counselor. Individuals with developmental delays, intellectual disabilities, multiple congenital anomalies, multiorgan system involvement, and failure to thrive with unusual features are often referred to this program for diagnostic evaluation and testing. Our providers also participate in the Upstate Cleft and CranioFacial Center and in the Robert C. Schwartz Cystic Fibrosis Program.

The Inherited Metabolic Diseases Specialty Center provides consultation and management of children and adults with inborn errors of metabolism. We are a referral center for the New York State Newborn Screening Referral Program and provide evaluation for infants with abnormal newborn metabolic screens in our catchment area. The center also has a lysosomal storage disease program for evaluation and management of individuals including treatment with enzyme replacement therapies.

Patients are seen in the Center for Development, Behavior, and Genetics which is housed on the lower level of the Physician's Office Building.

Educational Highlights

Dr. Robert Roger Lebel lectures regularly to groups outside the department, including Medical Technology students (ethical issues in genetics) and Speech Therapy students at Syracuse University (genetic underpinnings of syndromes). He teaches as a group discussion leader for the first-year medical school course in medical ethics and has 1-3 rising second-year medical school students for summer research each year. Dr. Lebel lectures on syndrome recognition to the third-year medical school students in their pediatrics clerkship and has 1 or 2 second-year medical school students under his tutelage for an elective course each of the 12 periods of the academic year. He participates in the genetics and development rotation for the PL1 residents.

Dr. Joan Pellegrino is a group discussion leader for the first-year medical school courses Foundation of Reasoning in Medicine. She instructs third-year and fourth-year medical students as they rotate through Pediatrics and Genetics. Dr. Pellegrino is involved in teaching Pediatrics residents during rotations in Genetics and is on the Pediatric Residency Evaluation and Promotion Committee. The Metabolic center also sponsors 1-2 educational programs per year for the families of patients with Phenylketonuria.

The faculty also provides lectures to the Pediatrics residents on a variety of Genetic topics including board reviews. Dr. Lebel provides annual grand rounds in several departments highlighting the genetic accomplishments for the year.

Research Highlights

Dr. Pellegrino is the director of the Inherited Metabolic Diseases Specialty Center and is involved in several disease registries that look at the long-term outcome of individuals with metabolic disorders. She has published articles relating to inborn errors of metabolism. **Dr. Lebel** has published

numerous articles describing new genetic disorders and expanding the phenotype of known disorders.

Grants and Contracts

Pellegrino J

Lysosomal Storage Disease Registry Program. Sponsor: Sanofi Genzyme Therapeutics. PI. 2009-present.

Hunter Syndrome Disease Registry Program. Sponsor: Takeda/ Shire. PI. 2013-present.

Newborn Screening Long Term Follow-up and Patient Registry. PI. NYS DOH Contract. 2019-present



Pediatric Medical Genetics is a program for children with concerns about genetic disorders, birth defects and related issues. Two Board Certified geneticists and two Board Certified experienced genetic counselors provide genetic services. The Team develops and implements an individualized care program for the complex medical/psychosocial problems confronting children or families affected by or at risk for inherited syndromes or individuals who are genetically susceptible to development of diseases.

Pediatric Endocrinology, Diabetes & Metabolism

Faculty

Roberto Izquierdo, MD, Professor of Medicine and Pediatrics, Division Director

David Hansen, MD, Assistant Professor of Pediatrics

Angela Mojica Sanabria, MD, Assistant Professor of Pediatrics

Lauren Lipeski, MD, Assistant Professor of Pediatrics; Director, Newborn Screening for Congenital Hypothyroidism and Congenital Adrenal Hyperplasia

Nisha Patel, MD, Assistant Professor of Pediatrics

Clinical Overview

The Division of Pediatric Endocrinology, Diabetes and Metabolism provides care for children and adolescents with the full spectrum of disorders of the endocrine system. Faculty endocrinologists and nurse practitioners evaluate and treat children with diabetes mellitus, short stature, thyroid disease, Turner syndrome, hypopituitarism, disorders of puberty, congenital adrenal hyperplasia, metabolic bone disorders, and other hormonal disorders. Our Center is one of the referral sites for New York State's Newborn Screening Program for congenital hypothyroidism and 21-hydroxylase congenital adrenal hyperplasia. We were recognized as an Endocrine Specialty Center for Congenital Hypothyroidism, Congenital Adrenal Hyperplasia, and Diabetes by the New York State Department of Health in 2004.

Diabetes mellitus is treated by a comprehensive group of professionals using the team model, under the direction of Dr. Izquierdo at the Joslin Diabetes Center. The team includes advanced practice providers with a special interest in diabetes care, diabetes care and education specialists, dietitians, child life specialist, and a social worker. This multidisciplinary team provides care to more than 1400 children with type 1 and type 2 diabetes mellitus in 28 counties in Central New York. In 2012, we received NCQA Recognition for Diabetes Care. This recognition underscores the superlative diabetes care we provide our patients.

We are able provide pediatric DXA scanning and consultation of children and adolescents at risk for osteoporosis.

Dr. Roberto Izquierdo directs the pediatric endocrine and diabetes division and has an interest in the management of diabetes mellitus and thyroid cancer and thyroid nodules in children and adults.

Dr. Lauren Lipeski is an experienced pediatric endocrinologist who directs our Endocrine Specialty Center for Congenital Hypothyroidism and Congenital Adrenal Hyperplasia. She has an interest in all aspects of pediatric endocrinology.

Dr. David Hansen is a pediatric endocrinologist with interest in the management of diabetes mellitus and other endocrinologic disorders. He also participates with our pediatric oncology colleagues to treat children diagnosed with a malignancy who develop endocrine dysfunction as result of their treatment or the cancer. He is involved in clinical diabetes research and leads a program to prevent DKA admissions.

Dr. Angela Mojica is a pediatric endocrinologist with interest in the transition of children and adolescents with diabetes to young adulthood. She leads our transition program in diabetes. She also treats children with other endocrine disorders.

Dr. Nisha Patel is our newest member who joined us within the past year. She has an interest in establishing a transition program for adolescents with endocrine disorders. She also has an interest in general endocrinology.

Educational Highlights

The pediatric endocrinology faculty group provides lectures to the pediatric house staff each year. In addition, pediatric residents and medical students rotate through our outpatient clinical practice.

Drs. Hansen, Mojica, and Lipeski participate in the clinical education of first- and second-year medical students.

Our endocrine attending staff participates in Project ECHO to provide educational case conferences to pediatricians and pediatric advanced practice providers.

Community Contributions

Our staff provides support to Camp Aspire, a camp for children with diabetes, each summer for one week as part of the medical staff and instructs medical students and residents who also attend.

Each fall we have a School Nurses' Diabetes Teaching Day directed to the school nurses in the 28 counties we serve.

Research Highlights

Dr. Izquierdo's research interests lie in type 1 and 2 diabetes mellitus, and thyroid nodular disease and cancer. **Dr. Hansen** has conducted clinical trials that involve automated insulin pump systems.

Dr. Mojica participates in a study to identify siblings of patients with type 1 diabetes who are at risk for developing type 1 diabetes.

Division Highlights

- Establishment of a Transition Program for adolescents with type 1 diabetes mellitus
- Establishment of the Diabetes Wellness Program to prevent diabetic ketoacidosis (DKA) in youth with type 1 diabetes at risk for DKA.
- Participation in a national quality improvement program: T1D Exchange Collaborative.
- Establishment of telemedicine contract with St. Joseph's Hospital neonatal intensive care unit

Grants and Contracts

Telemedicine contract with St Joseph's Hospital NICU

Izquierdo R

T1D Exchange Collaborative. PI for our site

Hansen D

Omnipod 5 Clinical Trial. PI for our site. 2020.

DINAMO trial: a trial for adolescent with type 2 diabetes mellitus. Site PI. 2021.

Mojica Sanabria AM:

Exploring Immune Effects of Oral Insulin in Relatives at Risk for Type 1 Diabetes Mellitus. TrialNet Protocol TN20. National Institute of Diabetes and Digestive and Kidney Diseases. Co-PI for our site.

Clinical Snapshot



Pediatric Gastroenterology, Hepatology and Nutrition

Faculty

Prateek Wali, MD, Associate Professor of Pediatrics, Division Director

Rheu Candava, MD, Assistant Professor of Pediatrics

Aamer Imdad, MD, Assistant Professor of Pediatrics

Marcus Rivera, MD, Associate Professor of Pediatrics

Clinical Overview

The Division of Pediatric Gastroenterology, Hepatology, and Nutrition is comprised of 4 board certified pediatric gastroenterologists, and 3 GI pediatric nurse practitioners who provide comprehensive outpatient and inpatient care for children with disorders related to the gastrointestinal, pancreatic, and hepato-biliary systems. Our team also includes an incredibly dedicated nursing staff, working alongside a division-dedicated specialized dietician and social worker to provide multidisciplinary care to a growing number of children. This expertise and teamwork provide our patients an exceptional level of personalized care and treatment.

Patients are seen in the outpatient GI offices located on the 5th floor of the Physician's Office Building. Inpatients are cared for both in the Upstate Golisano Children's Hospital and the Crouse Hospital Neonatal Intensive Care Unit. Endoscopic services are provided in the Center for Children's Surgery located on the 3rd floor in the University Hospital.

Common Conditions We Treat

- Celiac disease
- Chronic abdominal pain
- Chronic diarrhea
- Constipation
- Crohn's Disease
- Failure to thrive
- Fatty liver disease
- Feeding and swallowing disorders
- Gallstones
- Gastroesophageal reflux disease
- Hepatitis B and C (viral hepatitis)
- Hirschsprung Disease
- Infectious diarrhea
- Inflammatory Bowel disease
- Intestinal Failure
- Pancreatitis
- Short bowel syndrome
- Ulcerative colitis

Common Procedures We Perform

- Upper Endoscopy
- Colonoscopy
- Capsule Endoscopy
- 24-hour Impedance/pH testing
- FibroScan (Vibration-controlled Transient Liver Elastography)
- Lactose and Small Bowel Overgrowth Breath Testing



The Upstate Golisano Children's Pediatric Inflammatory Bowel Disease Program is nationally recognized for providing advanced care for children with Crohn's disease and Ulcerative Colitis. Under the supervision of Dr. Prateek Wali, we have been a long-standing participant in ImproveCareNow, an international collaborative effort focused on managing pediatric patients with Inflammatory Bowel Disease (IBD). As a burgeoning Center of Excellence and one of only 5 children's Hospitals in New York to participate in this effort, we are proud to offer our families with IBD a unique, comprehensive, state of the art, and personalized approach to IBD care. Our IBD program has among the highest in steroid free remission rates and also works with dedicated pediatric surgeons on the care of children with severe disease.

The division also operates an expanding Intestinal Failure/Short Bowel Syndrome (SBS) and TPN management program under the supervision of Dr. Marcus Rivera. His team including our specialized dietician, Kellie Wall works with home care providers and outpatient pharmacies to provide comprehensive multidisciplinary gastrointestinal, nutrition, and surgical care to these complex patients.

Recently we established a Pediatric Aerodigestive Program under the supervision of Dr. Aamer Imdad, which provides an interdisciplinary team approach in the treatment of aerodigestive disorders. The collaboration of the team, which includes Dr. Marium Yabe-Gill from Pediatric Pulmonary, Dr. Anthony Mortelliti from Pediatric Otolaryngology and Jill Merrow from Pediatric Speech Therapy, provides integrated multi-specialty care to assure quality and patient-centered care to children and their families. The Aerodigestive Program coordinates the care of children with complex conditions of the upper airway, lungs, upper digestive tract, including problems with sleep and feeding.

Educational Highlights

The gastroenterology faculty are involved in a variety of educational activities for residents and medical students. Medical students in their fourth year can enroll in the pediatric gastroenterology elective which has had excellent reviews. Our faculty also provide non-GI education for medical students: **Dr. Rivera** participates in the bioethics curriculum, while **Dr. Imdad** leads the 'Evidence Based Medicine' program under the Foundations of Reasoning in Medicine course. GI faculty participate in the annual pediatric resident lecture series and provide the fundamental knowledge basis for recognizing and treating common GI disorders. The Pediatrics and Family Medicine residents also benefit from both inpatient and outpatient pediatric GI experiences. We encourage the residents to participate in clinical academic projects and research with the potential for presentations and publication.

Research Highlights

The Upstate Golisano Children's Pediatric Inflammatory Bowel Disease Program has generated a number of research studies. The Protect Trial was a NIH-sponsored multicenter study examining the diagnosis and management of Ulcerative Colitis in children. Along with our participation in the ImproveCareNow collaborative, we were invited and are actively participating in a national study, the Clinical Outcomes of Methotrexate Binary Therapy in Practice (COMBINE) trial. The division is also working with six pediatric IBD centers in a study led by **Dr. Harland Winter** at Mass General Hospital on the Detection of Serum Protein Biomarkers to Predict and Monitor Response to Infliximab Using SOMAscan. This year we will also begin participation in a clinical trial from Takeda pharmaceuticals for the use of Vedolizumab in Children with Crohn's disease and Ulcerative Colitis.

Dr. Imdad has a particular interest in research involving global health and has multiple publications in quality peer reviewed journals. Over the past two years, he has produced eight manuscripts which include our medical students to expand their experience in evidence synthesis. He received a grant

from World Health Organization (WHO) to help develop feeding guidelines for infants and young children. He is currently developing research projects pertaining to pediatric aerodigestive health with our other subspecialty colleagues.

Grants Awarded: July 1, 2020- June 30, 2021

Wali P & Lisa Susko, RN

2020: GI Outpatient Clinic Patient Experience, Upstate Foundation, Upstate Golisano Children's Hospital. \$7,000

2021: GI Outpatient Clinic Patient Experience, Upstate Foundation, Upstate Golisano Children's Hospital. \$7,000

Imdad A

2021: World Health Organization: \$ 10,000: Principal Investigator: "Antibiotic as an adjunct to treatment of severe acute malnutrition in infants less than six months of age"

2021: World Health Organization: \$ 20,000: Principal Investigator: "Optimal iron content in ready-to-use therapeutic foods for the treatment of severe acute malnutrition in the community settings."

2020: World Health Organization: \$ 15,000: Principal Investigator: "The effect of consumption of animal milk compared to infant formula for non-breastfed or mixed-fed (breastmilk and other milk) infants 6-11 months of age. A systematic review"

Clinical Snapshot



Our pediatric gastroenterology division includes dedicated board certified physicians, nurse practitioners, nurses, dietitians and social workers with expertise in advanced diagnostic and therapeutic technologies to provide the most up to date care for children with digestive illnesses. We also support our local community physicians with consultations for common gastrointestinal problems such as abdominal pain, diarrhea, vomiting and constipation.

General Pediatrics

Faculty

Steven Blatt, MD, Professor of Pediatrics, Division Director; Associate Professor Syracuse University College of Law

John Andrade, MD, Associate Professor of Pediatrics, Director of Pediatric Hospital Medicine Division

Janice Bach, MD, Assistant Professor of Pediatrics

Winter Berry, DO, Associate Professor of Pediatrics

Joshua Bonville, MD, Assistant Professor of Pediatrics

Rheu Candava, MD, Assistant Professor of Pediatrics

Robert Hingre, MD, Assistant Professor of Pediatrics

Travis Hobart, MD, Assistant Professor of Pediatrics and Public Health and Preventive Medicine

Tobey Kresel, MD, Assistant Professor of Pediatrics

Jessica Mayer, MD, MPH, Assistant Professor of Pediatrics and Medicine

Elizabeth Nelsen, MD, Associate Professor of Pediatrics; Director, Pediatric Residency Program

Yekaterina Okhman, MD, Assistant Professor of Pediatrics

Jenica O'Malley, DO, Assistant Professor of Pediatrics

Uzma Rani, MD, Clinical Instructor of Pediatrics

Ronald Saletsky, PhD, Professor of Psychiatry

Ellen Schurman, MD, Assistant Professor of Pediatrics

Andrea Shaw, MD, Assistant Professor of Pediatrics and Medicine

Jaclyn Sisskind, MD, Assistant Professor of Pediatrics; Medical Director, Upstate Pediatrics

Anne Sveen, MD, Assistant Professor of Pediatrics

Karen Teelin, MD, MEd., Associate Professor of Pediatrics, Director, Section of Adolescent Medicine and Director of Adolescent Gender Clinic

Clinical Overview

Upstate Pediatrics and Adolescent Medicine (UPAC)

- Adolescent Medicine
- ENHANCE Services for Children in Foster Care
- Center for International Health
- Upstate Pediatrics

Clinical activity occurs in the term newborn nursery at Crouse Hospital, in General Pediatrics at Upstate Pediatrics, a busy four-pediatrician practice in Baldwinsville, NY, and at Upstate Pediatric and Adolescent Center (UPAC) in Syracuse. Both UPAC and Upstate Pediatrics are Level 3 NCQA Patient Centered Medical Homes.

The division provides a wide array of services to children, adolescents, and families, including well child and adolescent care, and acute episodic and chronic disease care. Programs include:

- ENHANCE Services for Children in Foster Care which provides primary and comprehensive health care services to children in Onondaga County Department of Social Services custody. ENHANCE is one of the oldest free-standing medical clinics for children in foster care in the country
- The Adolescent Medicine Program offers specialty care to patients 11 to 21 years of age. Patients and their families receive care for typical adolescent health issues, including mental health, reproductive health, and sexuality issues. Adolescent Medicine also provides services to a large, adolescent transgender community.

- The Center for International Health first opened in 2005 and now provides primary and specialized care to the more than 1000 new immigrants arriving annually in Central New York with the leadership of Dr. Andrea Shaw.
- The Central /Eastern New York Lead Poisoning Resource Center is funded by the New York State Department of Health.

Educational Highlights

Pediatric Residents are assigned their weekly continuity clinic and their own panel of patients for whom they are the primary care provider. They also rotate through the Division during their month of Newborn medicine, 2 months of outpatient pediatrics as a PL-1, 2 months as a PL-2, and 1 month as a PL-3. Additionally, as a PL-1, they spend time in the Center of International Health and ENHANCE. Senior residents spend a month in Adolescent Medicine.

Residents rotating through UPAC attend conferences 3 days each week, including the Current Events faculty-led journal club, UPAC lecture series, and UPAC case conference. UPAC faculty join the entire residency program each week for resident Journal Club or Intern Conference.

Research Highlights

Division Faculty participate in various research projects in the areas of Global Health; Lead Poisoning; Vaccine Development; Mental Health and Child Development.

Division Highlights

UPAC provides care through ~ 24,000 annual visits each year. Approximately 80-90% of our patients receive public assistance and Medicaid. Approximately 20-30% of our patients are new refugees or were born in Syracuse as children of new refugees. The majority of our patients are in one-parent families, and the majority of the mothers had their first child when they were a teenager. Care is provided by 12-15 faculty, 8 Nurse Practitioners, and 47 Pediatric Residents.

UPAC has a number of special programs including:

- **UPAC Diaper Bank:** Analogous to a food bank, the Diaper Bank helps defray the cost of this necessity for our young families.
- **Healthy Steps** provides extra developmental and parental support to families with new babies.
- **Reach Out and Read** is a national program providing books at each pediatric visit to young children.
- **Mental Health Therapy @ UPAC** includes a Mental Health Therapist to provide counseling to our patients and a Psychiatric Nurse Practitioner to assist with providing psychiatric medication to our patients.
- **Respiratory Therapy at UPAC** is a program with a respiratory therapist to provide Asthma teaching and **Pulmonary Function Tests** on site.

Grants and Contracts

Blatt SD

Health Steps for Young Children. Enhanced Ambulatory Care grant via NY State Office of Mental Health. Co-PI. 2016-2023

Pediatric Hematology/Oncology

Faculty

Melanie Comito, MD, Professor of Pediatrics, Paige Yeomans Arnold Endowed Professor in Pediatric Oncology, Division Director

Amy Caruso Brown, MD, MSc, MSCS, Associate Professor of Pediatrics; Interim Chair of the Center for Bioethics and Humanities

Irene Cherrick, MD, Associate Professor of Pediatrics; Medical Director, C.H.O.I.C.E.S Pediatric Palliative Care Program

Andrea Dvorak, MD, Assistant Professor of Pediatrics; Director, Pediatric Comprehensive Hemophilia Center

Gloria Kennedy, MD, Assistant Professor of Pediatrics, Director, Pediatric Dubowy Brain Tumor Center

Jill Majeski, PsyD, Assistant Professor of Pediatrics, Psychologist, Pediatric Hematology/Oncology and Palliative Care Programs

Philip Monteleone, MD, Associate Professor of Pediatrics; Principal Investigator, Children's Oncology Group, SUNY Upstate affiliate

Kathryn Scott, MD, Assistant Professor of Pediatrics; Director, Pediatric Sickle Cell Comprehensive Care Center

Jody Sima, MD, Assistant Professor of Pediatrics; Director, Survivor Wellness Center

Clinical Overview

The Division of Pediatric Hematology / Oncology provides care for children, adolescents, and young adults with oncologic and hematologic disorders as well as childhood cancer survivors. In addition to serving the greater Syracuse area, we also provide care to 17 surrounding counties in Central New York. Our program is the regional sickle cell center as well as the regional hemophilia and bleeding disorders treatment center. Consultative services are available immediately for primary care physicians.

Outpatient care is provided in the Waters Center for Children's Cancer and Blood Disorders located in the Upstate Cancer Center which opened in 2014. The clinic is located on the third floor in a space designed for children. The Outpatient Infusion Center is also located in this facility and serves all pediatric subspecialty patients. The physicians of the division are readily available to care for any infusion-related reactions for all children in the Center. A pediatric nurse practitioner is onsite and helps in the supervision of the care of the other subspecialty infusion patients.

Inpatient care is provided in a dedicated unit in the Upstate Golisano Children's Hospital. This unit and its nursing staff provides care for children receiving care for cancer and blood disorders. We also provide care for children undergoing autologous stem cell transplants, immunotherapy, and other biotherapy treatments. Consultative services are available throughout Upstate Golisano Children's Hospital and is also available to the infants in the Neonatal Intensive Care Unit of Crouse Hospital.

The Center for Children's Cancer and Blood Disorders is an active member of the **Children's Oncology Group (COG)**. COG is an international clinical trials group supported by the National Cancer Institute and is the world's largest organization devoted exclusively to pediatric cancer research. This allows us to provide the most current therapy while keeping the children and their parents close to the support of family and friends at home. These trials include frontline treatment for many types of childhood cancers, studies aimed at determining the underlying biology of these diseases, and trials involving new and emerging treatments, supportive care, and survivorship. Our participation in the COG also allows us to contribute to the steady improvement in therapies that is now allowing nearly

80% of children diagnosed with cancer to survive.

Our pediatric hematology/oncology program is committed to quality which is measured by our commitment to best practices, outcomes, and our ability to prevent infections. A formal chemotherapy safety program has been implemented to aid in the establishment of standardized procedures and event tracking. We hold multidisciplinary pediatric tumor boards that meet twice monthly to discuss our patients in active treatment. Ongoing quality projects include measurement of time to antibiotics for patients with febrile neutropenia, tracking of seasonal influenza vaccination rates for our active chemotherapy and sickle cell patients and working with our Children's Hospital Safety team on the tracking of our central line-associated bloodstream infections (CLABSI) rates in the pediatric oncology/SCT population.

The **Dubowy Brain Tumor Center** is a multidisciplinary neuro-oncology program. The center is directed by **Dr. Gloria Kennedy**. The focus of the center is a dedicated clinic that is focused on the pediatric brain tumor survivor with support from the educational specialist, family therapist, and social worker. There is additional support for patients from close collaborations with pediatric neurology, pediatric neurosurgery, radiation oncology, and pediatric endocrinology. The visits focus not only on the medical care and management of long-term complications but also on the psychosocial and educational needs of these unique and rapidly growing group of patients. It has been well recognized that the management of children with pediatric brain and spinal cord tumors is complex and requires a special multidisciplinary team. With the addition of Dr. Melanie Comito, who brings 16 years of experience in pediatric neuro-oncology, the mission has been expanded to treat all pediatric neuro-oncology patients in the context of a specialized program.

Our **Comprehensive Sickle Cell Treatment Program** is a state-designated center providing care to children and adolescents with sickle cell disease. The program staff is responsible for the care of all infants identified in our region by New York State's newborn screening program. Throughout the continuum of care of childhood, the care is focused on the prevention and treatment of complications. Under the guidance of Dr. Kathryn Scott, a multidisciplinary clinic is held with involvement by a dedicated nurse coordinator, psychologist, educational specialist, and social work support. New programs developed in the past year include Thriving Together, a program of family-centered events and connection, as well as Thriving Onward Transition Program for adolescent and young adult patients with sickle cell disease.

Our **Survivor Wellness Center** provides comprehensive follow-up care, into adulthood, for all children, adolescents and young adults who have successfully completed their cancer therapy. Great advances in the detection and treatment of childhood cancers are helping thousands of children live longer and become long term survivors, however treatments such as radiation or chemotherapy that were used to cure the cancer have impacted the lives of survivors in many ways including physically, socially, cognitively, vocationally, spiritually, and financially. The Survivor Wellness Program educates patients about their disease and its treatment, promotes preventive medicine, and provides ongoing consultation with the patients' primary care providers. We also strive to improve treatment of childhood cancers as well as management of long-term complications of therapy through clinical and laboratory research. As part of the COG, the staff networks with similar programs around the world. We are able to provide information gained from the most recent clinical studies, and also contribute to scientific knowledge by performing original research.

The **Pediatric Bleeding Disorder Program** is directed by Dr. Andrea Dvorak. This is a special program for patients with hemophilia, rare factor deficiencies, and von Willebrand's disease. The program is part of a research network through the Center for Disease Control and Prevention's (CDC) Public Health Surveillance for Bleeding Disorders project and with the American Thrombosis and

Hemostasis Network. In addition to the diseases above, the Program also follows patients with platelet disorders and a variety of other rare bleeding disorders.

A **Pediatric Vascular Malformation** program has been established under the guidance of Dr. Phil Monteleone who has put together a multidisciplinary team which includes specialists from pediatric oncology, pediatric radiology, pediatric surgery, interventional radiology, pediatric cardiology, ENT as well as other pediatric subspecialists. This team meets monthly in a dedicated tumor board for interdisciplinary discussions of patients referred to the program. The goals of this program are to create a home for these patients in our system so that they can be evaluated and treated in an efficient/effective way as well as to standardize the work up and management across divisions.

Educational Highlights

The clinical faculty are involved in a variety of educational activities including teaching medical students in their third-year pediatric clerkship, as well as offering a popular acting internship in inpatient Pediatric Hematology/oncology for fourth-year medical students interested in a career in pediatrics. There is also an outpatient elective available to fourth year medical students.

The pediatric residents rotate on the inpatient clinical service during their second year. Electives in outpatient hematology/oncology are available for pediatric residents as well. The clinical faculty regularly participate in providing lectures to the residents as well as participate in Pediatric Resident Journal Club on topics within this field. Division members are frequent presenters for the Morbidity and Mortality conferences presented by our pediatric residents. We have had a number of residents continue their education with fellowships in Pediatric Hematology & Oncology.

Dr. Amy Caruso Brown teaches courses in bioethics for medical and health profession students. She is the co-director of the health systems science curriculum for students in the MD program.

Drs. Dvorak and Monteleone are facilitators for the clinical case discussions for the MS-1 course Foundations in Reasoning in Medicine. **Dr. Scott** facilitates the MS-1 course Patients to Populations.

Our division provides the following CME conferences on a regular basis that are available on Webex:

- Pediatric Tumor Board, 1st and 3rd Tuesdays
- Pediatric Hematology Case Conference, 2nd Tuesdays
- Pediatric Vascular Anomalies Case Conference, 4th Tuesdays

Faculty / Research Highlights

All of the clinical pediatric oncologists participate in clinical trials with the COG and regularly enroll patients in these international clinical trials.

Dr. Melanie Comito, as the division chief, brings expertise in pediatric neuro-oncology and pediatric stem cell transplant therapies, as well as work in post-graduate education in pediatric hematology/oncology. She has participated in collaborative efforts in innovative therapies for infants with malignant brain tumors as well as studies in diffuse intrinsic pontine gliomas. Under her direction, the division has focused on quality projects and has established additional programs in Vascular Anomalies and Cancer Predisposition Programs. She was instrumental in establishing the Pediatric Hematology/Oncology Thruway Network which is a multi-institutional collaboration among the 4 upstate pediatric hematology/oncology. This network has held annual meetings starting in 2017 and has completed several joint projects.

Dr. Philip Monteleone has been a pediatric hematology/oncology physician for over 30 years. His main interests include running the COG research studies in children with cancer. He also has specific interests in children with leukemia or lymphoma and teenagers with cancer. He also has an interest in childhood vascular anomalies and has developed a multidisciplinary team and program for our center.

Dr. Irene Cherrick is board certified in Hospice and Palliative Care in addition to Pediatric Hematology/Oncology. Her interests span the two fields including supportive care for the pediatric oncology patient (management of pain as well as nausea/vomiting). She leads the CHOICES Pediatric Palliative Care team with particular interest in perinatal palliative care, particularly of genetic disorders such as Trisomy 18/13 as well as symptom management and care for the child with severe neurological impairment. She is actively involved in quality improvement studies within each of these fields.

Dr. Amy Caruso Brown's interests include all aspects of pediatric ethics, decision-making, and health equity as well as the provision of pediatric hematology/oncology and pediatric palliative care in resource-limited settings. She is also the Interim Chair of the Center for Bioethics and Humanities and the co-director of the health systems science curriculum for students in the MD program. Her research interests include understanding the role of faith and culture in treatment disagreements and the impact of social media on trust and the family-provider relationship.

Dr. Jody Sima has expertise in pediatric solid tumor multidisciplinary management. As director of the Survivor Wellness Clinic, she has a special focus on cancer survivorship and long-term complications of cancer treatment. Dr. Sima also works with a specialized team working to improve fertility options after cancer treatment.

Dr. Gloria Kennedy's interests include brain tumors especially those occurring in children with NF1 and Tuberous Sclerosis. She is director of the Dubowy Brain Tumor Center for survivors of Pediatric brain tumors. She is training in genetic cancer risk assessment with the City of Hope and plans for a pediatric center for diagnosis and surveillance of children with familial cancer syndromes.

Dr. Andrea Dvorak has special interests in Bleeding Disorders, Thrombosis, Hematologic Malignancies, and Vascular Anomalies. As the Director for the Pediatric Bleeding Disorder Clinic she participates in research through the Center for Disease Control and Prevention's Public Health Surveillance for Bleeding Disorders project and with the American Thrombosis and Hemostasis Network.

Dr. Jill Majeski is a pediatric psychologist focused on providing psychological services with pediatric sickle cell disease and pediatric palliative care populations. Her primary interests are in optimizing quality-of-life for children living with serious and complex medical conditions, communication in the healthcare setting, medical decision-making, and psychosocial program development. She has held leadership positions with the Society of Pediatric Psychology with goals of further developing formal education and training opportunities for pediatric psychologists interested in specializing in pediatric palliative care.

Dr. Kathryn Scott's interests are in pediatric hematology and education. She is the Medical Director of our Comprehensive Pediatric Sickle Cell Program. She runs our chronic transfusion/iron chelation program and has interests in bone marrow failure syndromes, thrombosis, and other benign hematologic disorders. Her interests in Thalassemia care has led to participation in the Mid-Atlantic Regional Thalassemia Group.

Division Highlights

Our program has been a long-standing member of the COG. Patients are enrolled in Phase II and III clinical trials, biology studies, cancer control, and late effects studies. We are also members of 2 other consortiums which includes the National Experimental Therapeutics (NEXT) consortium which sponsors the Head Start 4 study for young children with malignant brain tumors and North American Consortium for Histiocytosis (NACHO) which sponsors studies for children with Langerhans cell histiocytosis. We have opened the SurvivorLink study, which is a multi-center trial whose purpose is to evaluate the impact of SurvivorLink on the patient survivor care clinic attendance and risk-

based surveillance. We have our own pediatric hematology/oncology research office which oversees these studies. In addition, this office also enrolls patient on trials sponsored by the CDC in hemophilia and bleeding disorder. We also have done investigator-initiated studies and completed studies in vaccine retention after childhood cancer treatment and a feasibility study on cancer predisposition syndromes in our cancer survivors.

In addition to the programs highlighted above, we have an active hematology program directed by Dr. Scott. She runs our chronic transfusion service and chelation program for iron overload. We are experts in iron deficiency, thrombosis/hemostasis, and bone marrow failure syndromes.

The division has been actively involved in patient safety. We participate in the Children’s Hospitals’ Solutions for Patient Safety Children’s Network, which is a network of Children’s Hospitals across the US and Canada. We also participate in the Solutions for Patient Safety Hematology/Oncology pioneer cohort for prevention of CLABSI.

Grants and Contracts

Comito MA

Infrastructure Grant for clinical oncology research support St Baldrick’s Foundation. PI. 2016 to present, \$50,000/year

LCH-IV – International Collaborative Treatment Protocol for Children and Adolescents with Langerhans Cell Histiocytosis. Sponsor: NACHO – North American Consortium for Histiocytosis through St. Jude’s Children’s Research Hospital. 2017-present

Head Start 4 – Newly Diagnosed Children (less than 10 years old) with Medulloblastoma and other Central Nervous System Embryonal Tumors. Clinical and Molecular Risk-Tailored Intensive and Compressed Induction Chemotherapy Followed by Consolidation with Randomization to either Single or Sequential Cycles of Marrow-Ablative Chemotherapy with Autologous Hematopoietic Progenitor Cell Rescue. Sponsor: NEXT Consortium, Nationwide Children’s Hospital. 2016-present

Dvorak A

Mount Sinai School of Medicine: Hemophilia Treatment Centers. Through the Maternal Child Health Bureau. PI. 2013-present.

Mount Sinai School of Medicine: Community Counts: Public Health Surveillance for the Bleeding Disorders. PI. 2013-present.

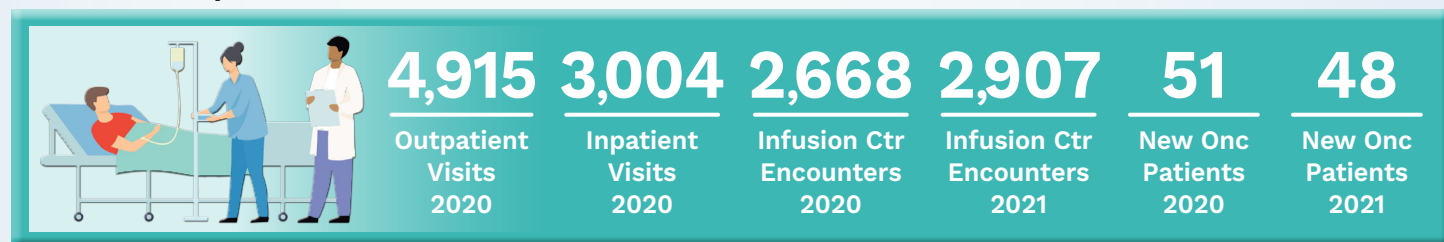
Monteleone P

Children’s Oncology Group – awards and subcontracts, ongoing
 40 open COG trials and 2 hybrid (SWOG/ECOG/COG) trials open.
 Patient enrollment for 2021: 11 therapeutic enrollments and 43 non-therapeutic enrollments

Sima J

SurvivorLink: Scalability of an Electronic Personal Health Record for Cancer Survivors and Caregivers at Pediatric Cancer Centers (“SurvivorLink Scalability”). Sponsor: Emory University School of Medicine, Department of Pediatrics. 2021-present.

Clinical Snapshot



Pediatric Hospital Medicine

Faculty

John S. Andrade, MD, Associate Professor of Pediatrics, Division Director

Olamide A. Ajagbe, MD, Assistant Professor of Pediatrics

Kerry Biggs, MD, Assistant Professor of Pediatrics

Ian Dargon, MD, Assistant Professor of Medicine and Pediatrics

Elizabeth Lodge, MD, Assistant Professor of Pediatrics

Matthew Mittiga, MD, Assistant Professor of Pediatrics

Jennifer Myszewski, DO, PhD, Assistant Professor of Pediatrics; Director, Pediatric Hospital Medicine Fellowship Program

Jennifer A. Nead, MD, Assistant Professor of Pediatrics; Director, Pediatrics Clerkship Program

Andrew Osten, MD, Assistant Professor of Pediatrics

Melissa Schafer, MD, Associate Professor of Pediatrics

Nusrat Zaman, MD, Assistant Professor of Pediatrics

Clinical Overview

The Division of Pediatric Hospital Medicine provides comprehensive care for children from newborns to young adults up to age 20 requiring inpatient medical care. The division provides care for a variety of disorders, acute and chronic, with general and subspecialty needs. Common conditions on the inpatient service include: acute and chronic respiratory illnesses, gastrointestinal disorders, infectious diseases, rheumatologic and cardiac conditions, and neurologic concerns. The faculty provides direct care and coordination of care for medically complex patients while they are inpatients. The hospitalists provide medical care alongside the Child Psychiatry Consultation and Liaison service for children and adolescents with psychiatric and behavioral health problems. The division also provides consultative care for patients on surgical and medical subspecialty services.

Our inpatients are cared for in the General Pediatric Inpatient Units in the Upstate Golisano Children's Hospital by teams that include Pediatric Hospitalists, residents, medical students, and nurse practitioners. The care is enhanced with the assistance of dedicated pediatric case managers, social workers, pharmacists, child life specialists, and art and music therapists.

Educational Highlights

Dr. Olamide Ajagbe was the recipient of the College of Medicine's quarterly "Exceptional Teacher Initiative" award for Q1 2020. This award is based on students' survey responses, asking what teachers did that resulted in an exceptional educational experience and how it changed them.

Dr. Nusrat Zaman received The Exceptional Moments in Teaching Recognition award in December 2019, awarded to faculty based on student assessments to recognize "those who challenge students and provide an exceptional learning experience". **Dr. Ian Dargon**, who is trained in Medicine and Pediatrics and serves as a hospitalist in both departments, received this honor in January 2022.

Dr. Jennifer Nead won the 2021 Upstate President's Award for Excellence in Teaching in the College of Medicine for Clinical Teaching.

Dr. Jennifer Myszewski won the Pediatrics Faculty Star Award in November 2021 for her efforts to address resident wellness during the pandemic.

Hospital Medicine faculty are involved in a variety of educational activities. The division is responsible for the inpatient educational activities for all students on the pediatric clerkship. Medical students

are an integral part of the inpatient teams. **Dr. Nead** serves as the Clerkship Director and has developed a project involving peer assessments of oral presentations.

The faculty is also responsible for teaching the fourth-year medical students, on their Inpatient Pediatric Acting Internship, a rotation for most medical students who go on to pursue Pediatric residencies and some with interests in Family Medicine.

All three years of Pediatric residents have required rotations on the Inpatient Service. The faculty provides the inpatient education and evaluation of each of the residents. Residents have also opted to take additional Hospital Medicine electives to hone their skills in the care of pediatric inpatients.

Dr. Ajagbe serves as an Associate Program Director for the Residency Program.

Family Medicine residents also rotate onto the Hospital Medicine Service. We currently are teaching residents from 3 Family Medicine residency programs, including residents in their first, second and third years of residency.

In July of 2022 we will welcome our first Pediatric Hospital Medicine Fellow. This 2-year fellowship program has been accredited by the ACGME and is led by **Dr. Myszewski**, the Program Director and **Dr. Zaman**, the Associate Program Director. Graduating fellows will be eligible to sit for the ABP certifying exam in Pediatric Hospital Medicine. Dr. Myszewski works with the PHM Fellowship Director's Council's Faculty Development Subcommittee.

Under the guidance of **Dr. Zaman** and collaboratively with nursing, palliative care, child life specialists and residents, the division is working to review and update the LEAPP program: Listen, Evaluate, Anticipate, Plan and Proceed, an approach to preparing for procedures on pediatric inpatients. This involves an educational program for staff and families to better address pain, especially around procedures, including a new order set for pain medications.

Division faculty present lectures to the residents in their Thursday Morning Conference series, present at department Grand Rounds, and regularly participate and present in the Monthly Morbidity and Mortality Conferences. This Morbidity and Mortality Conference is organized and led by **Dr. Melissa Schafer**, one of the faculty in the division. Dr. Schafer also provides education to the residents throughout the year with a series of lectures about quality improvement.

Faculty in the division, especially **Dr. Ajagbe** are also responsible for resident education in Diversity, Equity, and Inclusion, conducting workshops for residents on this topic.

Hospitalist faculty participate in teaching residents through simulations. These simulations entail mock codes and other inpatient scenarios while the residents are on service. There is also a skills lab geared at developing residents' procedural skills.

Research Highlights

Hospital Medicine Faculty participate in various research projects. Members of our division participate in the multicenter study for Eliminating Monitor Overuse (EMO) Hybrid Effectiveness De-Implementation Trial.

Dr. Melissa Schafer is involved in multiple QI research projects and presentations, including projects that improve pediatric sepsis outcomes, influenza hesitancy, bronchiolitis management, and education around QI. See more in the Quality and Safety section.

Division Highlights

Throughout the COVID-19 pandemic, the division has worked to keep up with the current information on the pandemic. We have established collaborative working groups with faculty from Critical Care, Pediatric Emergency Medicine, Hematology and Oncology, Cardiology, Rheumatology, nursing and

respiratory therapy in order to develop care pathways to manage acute COVID-19 infection and MIS-C. The division expanded the age of patients for whom we provide care up to age 30 years during the Delta Variant COVID-19 surge.

The Pediatric Hospital Medicine division continues to develop pathways for other diagnoses. Bronchiolitis is a common diagnosis requiring hospital admission. The division has developed a working group including faculty from the ED and PICU, along with nursing and respiratory therapy to develop and oversee a pathway for this disease. This process has allowed us to bring High Flow Nasal Canula for this diagnosis to the general inpatient units. This group is currently developing a care pathway for asthma.

Our division participates in Solutions for Patient Safety, a patient safety network of Children's Hospitals across the US and Canada addressing a number of hospital-acquired conditions. We were named the Solutions for Patient Safety Hospital of the Month for July 2021; where the hospital and safety team was honored for performance in preventing central line infections, preventing pressure injuries, and preventing unplanned extubations.

The faculty have also joined an AAP Value In Pediatrics (VIP) project, Better Antibiotic Selection in Children. This is a national quality improvement project geared towards improving our antibiotic use in skin and soft tissue infections, urinary tract infections, and community acquired pneumonia. This multi-institutional collaboration has led to decreased antibiotic use and more selective antibiotic choices. At our hospital, this resulted in care pathways to stream line care of patients with these conditions. Another VIP project that the hospital medicine division is participating in is the REVISE II project (Reducing Variability in the Infant Sepsis Evaluation).

Dr. Zaman, with one of our residents, **Dr. Saber Jan**, is leading a QI project regarding resident education around palliative care medications and pain in patients.

The Hospital Medicine division has established a collaborative working relationship with the other PHM divisions in Upstate, NY, including Buffalo, Rochester, and Albany. We have been meeting quarterly to review topics of common interest.



Pediatric Immunology and Infectious Diseases

Faculty

Leonard B. Weiner, MD, Distinguished Service Professor of Pediatrics, Pathology and Family Medicine, Division Director, Pediatric Infectious Disease Fellowship Program Director

Joseph B. Domachowske, MD, Professor of Pediatrics, Microbiology and Immunology

Jana Shaw, MD, MPH, MS, Professor of Pediatrics

Manika Suryadevara, MD, Associate Professor of Pediatrics

Fellow

Danielle Daniels, MD: July 2020 to present

Clinical Overview

The Division of Immunology and Infectious Diseases provides care for infants, children and adolescents with severe or unusual infections and immune deficiency syndromes, including HIV. Infectious disease specialists evaluate and treat children with recurrent infections, persistent or periodic fever syndromes, unusual or severe bacterial, viral, fungal and parasitic diseases, and innate or acquired immune deficiency syndromes. As a designated New York State Department of Health Pediatric/Adolescent AIDS Center of Excellence, we provide medical care for pediatric and young adult patients infected with or exposed to human immunodeficiency virus. Our outpatient care is provided in the Pediatric and Adolescent Infectious Disease and Immunology Center in the pediatric subspecialty outpatient setting located in the Golisano Children's Hospital. Patients referred by their primary care physicians for infectious disease and immunologic diagnostic evaluations or who need intravenous antibiotics and immunoglobulin infusions are cared for in this Center. Follow-up evaluations on recently hospitalized patients also take place in this setting. Additionally, as a NYSDOH designated Newborn Referral Center for severe combined immunodeficiency (SCIDS) screening, we provide immediate evaluations for those newborns with positive screens.

Hospitalized patients are evaluated upon the request of their physicians at Golisano Children's Hospital and the Crouse NICU. Our infectious disease specialists work closely with primary care pediatricians, family physicians, surgical specialist, intensivists, hospitalists, and neonatologists to direct the diagnostic and therapeutic evaluations of patients with infectious disease and/or immunologic problems.

The activities of the Division of Immunology and Infectious Diseases include the only New York State Department of Health Pediatric Designated AIDS Center/Specialty Care Center in the region. This program has also received a Center of Excellence designation and is funded by the New York State Department of Health. The Division of Infectious Disease is also a NYSDOH-designated newborn screening center for evaluation of T-cell lymphopenia disorders/SCIDS and has received a Center of Excellence designation.

The Division of Immunology and Infectious Diseases also has oversight responsibilities for the Infection Control and Antimicrobial Stewardship Programs at Upstate Golisano Children's Hospital and for the inpatient control activities at the Crouse NICU.

Educational Highlights

The Division of Immunology and Infectious Diseases has an accredited fellowship program that accommodates one postgraduate resident a year. The focus of this sub-specialty education is research and clinical care. The fellowship has a full five-year accreditation from the ACGME with no citations.

Fellow **Dr. Danielle Daniels** was selected for the 2020 APS SPR Journeys & Frontiers in Pediatric Research program.

Research Highlights

A major effort of the infectious disease physicians is direction and participation in multi-center, national and international clinical trials to evaluate the safety and efficacy of new pharmacologic agents and vaccines for children and adolescents. Specifically, **Dr. Leonard Weiner** currently supervises protocols to evaluate novel antiviral therapies and multiple clinical vaccine trials.

Dr. Joseph Domachowske's clinical research interests focus on the epidemiology, prevention and clinical manifestations of viral infections. Dr. Domachowske is the Director, Maternal-Child Pediatric Health for the institution's Global Health Program.

Dr. Jana Shaw's clinical research interests focus on epidemiology, infection control, and vaccine policy. She has also undertaken studies aimed at elucidating the causes of vaccine refusal among various populations and to describe the epidemiology of vaccine hesitancy in the US.

Dr. Manika Suryadevara's research interests include the study of vaccine preventable diseases, increasing vaccination rates by both improving access to vaccine and understanding and intervening with parental and provider vaccine hesitancy. She is also involved in clinical vaccine trials.

Division Highlights

The arrival of the SARS-CoV-2 pandemic in early 2020 resulted in a major re-focusing of the clinical and research activities of the Division of Immunology and Infectious Diseases. Clinically, along with everyone else in the medical community, we had to learn how to manage patients with a completely new set of disease manifestations. Additionally, we worked to develop tools to define the new epidemiology of this burgeoning pathogen and to collaborate with others in the evaluation of effective vaccines and therapeutic modalities. To that end, the Division undertook large scale Pfizer and Moderna SARS-CoV-2 pediatric vaccine trials for ages 6-months to 18 years which are still in progress.

Grants and Contracts

Weiner LB

Pediatric Designated AIDS Center/Specialty Care Center (PDAC). New York State Department of Health AIDS Institute. PI. 1990-2021.

A phase 2/3, multicenter, open-label, multicohort, two-part study evaluating Pharmacokinetics (PK), safety, and efficacy of Cobicistat-boosted Atazanavir (ATV/co) or Cobicistat-boosted Darunavir (DRV/co) administered with a background. Sponsor: Gilead Sciences Incorporated. PI. 2013-2020.

A phase I-II, randomized, double-blind, study to evaluate the safety, tolerability, and immunogenicity of different formulations of V114 in healthy adults and infants. Sponsor: Merck Sharp and Dohme Corporation. PI. 2015-2020.

Meningococcal vaccination coverage in adolescents at a public clinic and a private practice group. Sponsor: Sanofi Pasteur Incorporated. PI. 2016-2020.

A phase 3, multi-center, open-label, randomized, comparator controlled trial of the safety and efficacy of Dalbavancin versus active comparator in pediatric subjects with acute bacterial skin and skin structure infections. Sponsor: Allergan Sales LLC. PI. 2016-2020.

Pre-Exposure Prophylaxis (PrEP) Services in General and Primary Care Settings. New York State Department of Health AIDS Institute. Co-PI. 2016-2021.

Adolescent/Young Adult HIV Specialized Care Center (SCC). New York State Department of Health AIDS Institute. PI. 2016-2021.

A phase II, double-blind, randomized, multicenter study to evaluate the safety, tolerability, and immunogenicity of V114 compared to Prevnar12 in healthy infants. Sponsor: Merck Sharp and Dohme Corporation. PI. 2017-2021.

A phase 1, open-label, multicenter, non-comparative Pharmacokinetics and safety study of intravenous Isavuconazonium Sulfate in pediatric patients. Sponsor: Astellas Pharma US Incorporated. PI. 2017-2020.

A phase 2, randomized, open-label trial to evaluate the safety and immunogenicity of a multivalent Pneumococcal Conjugate vaccine given with, or separately from, 13-Valent Pneumococcal vaccine in healthy infants. Sponsor: Pfizer Incorporated. PI. 2018-2020.

A phase 2, randomized, double-blind trial to evaluate the safety and immunogenicity of a multivalent Pneumococcal Conjugate vaccine in healthy infants. Sponsor: Pfizer Incorporated. PI. 2018-2020.

A phase IIIB, observer-blind, randomized, placebo-controlled, multicenter study to assess the safety and immunogenicity of GSK Meningococcal Group B vaccine and 12-valent Pneumococcal vaccine when administered concomitantly. Sponsor: GlaxoSmithKline. PI. 2018-2020.

A phase 3, multicenter, randomized, double-blind, active comparator controlled study to evaluate the safety and tolerability of V114 in healthy infants (PNEU_LINK). Sponsor: Merck Sharp and Dohme Corporation. PI. 2019-2021.

A phase 3, multicenter, randomized, double-blind, active-comparator controlled study to evaluate the safety, tolerability, and immunogenicity of a 4-dose regimen of V114 in healthy infants (PNEU-PED). Sponsor: Merck Sharp and Dohme Corporation. PI. 2019-2020.

A phase 2, open-label, non-comparative, multicenter study to evaluate the safety and tolerability, efficacy and pharmacokinetics of Isavuconazonium Sulfate for the treatment of Invasive Aspergillosis (AI) or Invasive Mucormycosis (IM). Sponsor: Astellas Pharma Global Development Incorporated. PI. 2019-2020.

Congenital and perinatal infections rare diseases clinical research consortium (RDCRC). Sponsor: Board of Trustees of the University of Alabama Birmingham. PI. 2019-2020.

A phase 1b, randomized, observer-blind, placebo-controlled, dose-ranging trial to evaluate the safety and immunogenicity of mRN-1653, a combined human metapneumovirus (hMPV) and Parainfluenza virus type 3 (PIV3) vaccine-adults & 12-36mo. Sponsor: ModernaTX. PI. 2020-2021.

A phase 3, randomized, double-blind trial to evaluate the safety and immunogenicity of a 20-Valent pneumococcal conjugate vaccine in healthy infants. Sponsor: Pfizer Incorporated. PI. 2020-2021.

Collection of respiratory swab samples from patients with suspected respiratory tract infections. Sponsor: Roche Molecular Systems. PI. 2020-2022.

Congenital and perinatal infections rare diseases clinical research consortium (RDCRC). Sponsor: Board of Trustees of the University of Alabama Birmingham. PI. 2020-2021.

A phase 2/3, randomized, observer-blind, placebo controlled, study to evaluate the safety, reactogenicity, and effectiveness of mRNA-1273 SARS CoV 2 vaccine in healthy adolescents 12 to <18 years of age. Sponsor: ModernaTX. 2021-2022.

A phase 2/3 two part, open label, dose escalation, age de-escalation and randomized observer blind placebo controlled expansion study to evaluate the safety tolerability reactogenicity and effectiveness of mRNA 1273 SARS CoV2 vaccine. Sponsor: ModernaTX. PI. 2021-2022.

Domachowske JB

A prospective, epidemiological, interventional, multicountry based, cohort study to assess the disease burden of respiratory syncytial virus (RSV) associated, suspected lower respiratory tract infections (LRTIs) in newborns. Sponsor: GlaxoSmithKline. PI. 2014-2022.

A phase 3 randomized, double-blind, placebo-controlled study to evaluate the safety and efficacy of

MED18897, a monoclonal antibody with an extended half-life against respiratory Syncytial virus, in healthy late preterm and term infants. Sponsor: MedImmune. PI. 2019-2022.

A phase 2/3 randomized, double-blind, palivizumab-controlled study to evaluate the safety of MED18897, a monoclonal antibody with an extended half-life against respiratory syncytial virus, in high-risk children. Sponsor: MedImmune. PI. 2019-2022.

A phase 1/2, randomized, observer-blind, controlled, multi-center study to evaluate safety, reactogenicity and immunogenicity of GSK biologicals' respiratory syncytial virus (RSV) investigational vaccine based on the RSV viral proteins. Sponsor: GlaxoSmithKline. PI. 2019-2021.

A phase IIIB randomized controlled observer blind study to evaluate safety and immunogenicity of GSK's meningococcal ABCWY vaccine when administered in healthy adolescents and adults previously primed with meningococcal ACWY vaccine. Sponsor: GlaxoSmithKline. PI. 2021-2023.

A phase 1 open-label dose-finding study to evaluate safety tolerability and immunogenicity and phase 2/3 placebo controlled observer blinded safety. Sponsor: Pfizer Incorporated. PI. 2021-2022.

A phase III randomized observer blinded placebo-controlled multi center project to evaluate safety and immunogenicity of the Chikungunya vaccine MV-CHIK in healthy adults. Sponsor: Themis Biosciences. PI. 2020-2021.

A phase 2 open label uncontrolled single dose study to evaluate the safety and tolerability pharmacokinetics and occurrence of antidrug antibody for Nirsevimab in immunocompromised children less than or equal to 24 months of age. Sponsor: AstraZeneca. PI. 2021-2022.

Shaw J

SARS-CoV2 vaccines information equity and demand creation project. Sponsor: John Hopkins University. PI. 2021.

Vaccine Hesitancy for COVID 19. Sponsor: John Hopkins University. PI. 2021-2022.

Suryadevara M

A multicenter, single-arm, open-label study to assess the safety, pharmacokinetics, and efficacy of Baloxavir Marboxil in otherwise healthy pediatric patients from birth to <1 year of age with influenza-like symptoms. Sponsor: Genentech Incorporated. PI. 2019-2023.

A phase 2, double-blind, placebo-controlled study to evaluate the antiviral activity, clinical outcomes, safety, tolerability, and pharmacokinetic/pharmacodynamic relationships of different doses of JNJ-53718678 in children ≥ 28 days & 3yr. Sponsor: Janssen Research and Development LLC. PI. 2020-2023.

A prospective surveillance study to determine the clinical manifestations pathogen co-detection, temporal patterns of, and meteorologic and air quality factors associated with RSV infection among young children in the middle income tropical. Sponsor: Merck Sharp and Dohme Corporation. PI. 2021-2022.

A prospective study to characterize vaccine knowledge, attitudes, and practices among healthcare providers in NYS. Sponsor: Merck Sharp and Dohme Corporation. PI. 2021-2022.

Pediatric Nephrology

Faculty

Scott Schurman, MD, Associate Professor of Pediatrics, Division Director; Vice Chair of Pediatrics

Dongmei Huang, MD, Assistant Professor of Pediatrics

Heather Wasik, MD, Assistant Professor of Pediatrics

Thomas Welch, MD, Professor Emeritus of Pediatrics

Clinical Overview

The Section of Nephrology provides inpatient consultation and acute dialysis care, including peritoneal dialysis, hemodialysis, and continuous renal replacement therapies (CRRT) at the Upstate Golisano Children's Hospital (UGCH). In 2019, Pediatric Outpatient Dialysis Units for peritoneal dialysis and hemodialysis opened at UGCH. Other outpatient services are provided in our offices at 725 Irving Ave, Suite 805, directly across the street from UGCH. This office has been recognized for exemplary Patient Experience Performance, and **Dr. Schurman** received the 2019 Patient Experience Outstanding Performer Award.

The section evaluates and treats infants, children, and adolescents with the full spectrum of disorders of the urinary tract. This activity includes basic nephrology disorders such as nephrotic syndrome, glomerulonephritis, all stages of chronic kidney disease, and inpatient and outpatient dialysis. The section is part of the University Hospital Transplant team, providing comprehensive kidney transplant services for children and adolescents; over the last decade our team has consistently performed the most pediatric kidney transplants in the Upstate New York region, with 100% 1, 3, and 5-year graft survival. This includes 46 transplants in 2021 alone.

We have an established expertise in the evaluation and management of children with hypertension, including 24-hour ambulatory blood pressure monitoring. Metabolic evaluations of children with urolithiasis are performed, stressing dietary measures that can minimize risk of recurrence.

The section provides coordinated care to infants and children with simple and complex urologic abnormalities, including prenatal visits. Patients with congenital or other hydronephrosis and vesicoureteral reflux are evaluated and followed. We work closely with our section of Pediatric Urology, including a bi-monthly combined case review.

Educational Highlights

Nephrology faculty are involved in a variety of educational activities. The pediatric residency lecture series, in which our faculty actively participate, provides the fundamental knowledge basis for recognizing and treating common kidney diseases.

Residents often choose to spend a month with our team on elective; this time focuses on inpatient rounds and outpatient care, including general nephrology, dialysis, and transplant patients. Elective curriculum includes a series of didactic case discussions that focus on nephrology subjects pertinent to the general pediatric board examination.

Research Highlights

Dr. Heather Wasik's focus has been on using large databases to ask and answer questions related to End Stage Kidney Disease Care. This has included retrospective cohort studies using the North American Pediatric Renal Trials and Collaborative Studies database to evaluate dialysis and transplant outcomes in children with end stage kidney disease due to lupus nephritis and analysis of hospitalization costs of hemodialysis catheter-associated blood stream infections in children by

using data from the Standardizing Care to Improve Outcomes in Pediatric ESRD (SCOPE) Collaborative and the Pediatric Health Information System databases.

Division Highlights

The section is involved in Quality Improvement initiatives touching multiple areas of care. The Nephrotoxic Acute Kidney Injury (NAKI) is a program sponsored through the Solutions for Patient Safety. Our process for identifying patients admitted to the hospital and at-risk for medication induced renal injury, and communicating that information to care providers, was highlighted by the consortium.

The Pediatric Nephrology Center at UGCH participates in the SCOPE Collaborative. A Quality Transformation Network, the SCOPE Collaborative of 50+ Pediatric Nephrology centers implements evidence-based catheter bundles aimed to reduce catheter related infection.

The section coordinates Quality Assessment and Performance Improvement (QAPI) programs in chronic Pediatric Dialysis and Pediatric Kidney Transplantation, including projects to improve viral and rejection surveillance and hypertension management in transplant patients.



The pediatric nephrology division at Upstate Golisano Children's Hospital provides outstanding clinical care to infants, children, and adolescents in the Central New York region with a broad range of kidney and related conditions.

Our team includes dedicated board certified physicians, nurses, dieticians and social workers. Our division also collaborates with experts in pediatric urology, dialysis, and kidney transplantation to provide comprehensive care to our patients. In addition, we support our neonatal and pediatric intensive care units and local community physicians with consultations for both rare and complex as well as common conditions of the kidney and genitourinary tract

From left to right, Richard Johnson (2nd place in his age division), Dr. Heather Wasik (1st place in the women's division) and Scott Corrigan (3rd place in his division) after participating in the Syracuse Walk/Run for Kidneys at Onondaga Lake Park, Liverpool, New York.



Pediatric Palliative Care

Faculty

Irene Cherrick, MD, Associate Professor of Pediatrics; Medical Director

Nusrat Zaman, MD, Assistant Professor of Pediatrics

Jill Majeski, PsyD, Clinical Associate Professor of Pediatrics, Licensed Pediatric Psychologist

Clinical Overview

The CHOICES Pediatric Palliative Care Program provides care from prior to birth (prenatal period) into adulthood for children and their families with complex and life-threatening medical conditions. Program Director Dr. Irene Cherrick is Board-Certified in Hospice & Palliative Care Medicine. All medical providers on the CHOICES team have completed a nationally recognized intensive Pediatric Pain Master Class. Pediatric Palliative Care provides an extra layer of support and various services to patients (and their families) that are cure-seeking, life-prolonging, comfort-enhancing to optimize quality of life. The CHOICES team provides care across the spectrum of life and is NOT limited to end of life or hospice care. This team provides care and support to children dealing with medically complex problems. This care is provided in the inpatient, outpatient as well as home setting based upon need. The CHOICES team partners with the patient's medical team as well as numerous community-based agencies to perform this complex care.

The CHOICES team supports medical decision-making, providing timely and effective interventions to minimize suffering (pain and symptom management) while maximizing quality of life and managing and coordinating the logistics of care to provide seamless transitions between settings (thus optimizing patient and family continuity) to maintain the highest quality of care. Team members have collective expertise to address the physical, psychosocial, emotional, practical and spiritual needs of the child and family as a whole (including extended families and siblings in addition to patients and parents). This care includes bereavement care which includes anticipatory grief and continues after the death.

Pediatric Palliative Care populations are very different from adult palliative care populations. Although adult palliative care teams often focus on improving quality of life for patients with terminal diseases, pediatric palliative care programs support children and families with chronic medical disease across the spectrum of many years.

The CHOICES team provides the following:

- Establishes rapport with the patient/family/support system throughout a continuum incorporating complex medical conditions and care
- Explores and assists with defining and advocating for patient's/families' goals of care
- Expert pediatric pain and symptom management, including those with severe neurological impairment who often require a different level of expertise
- Assist with processing the impact of serious medical conditions/injuries for the patient/family and support network, and providing educational resources for coping, communication, decision making, and parenting in the face of a complex medical illness
- Support groups for caretakers of children with complex medical conditions as well as support group for bereaved family members
- Offers continuity of care throughout including specialists' appointments, hospitalizations, attending care conferences, and provides continuous support services among specialties and settings including Golisano Children's Hospital, Crouse NICU, perinatal center, home, provider provider's office, specialty clinics, outpatient and inpatient settings, and hospice services

- Facilitates the processing of anticipatory grief, end-of-life care and bereavement support, and coordinates with local hospices providing pediatric expertise for those children nearing the end of their lives.

Educational Highlights

The faculty are involved in many educational activities including clinical teaching with nursing staff, housestaff, and medical students.

There is an elective for pediatric housestaff in Pediatric Palliative Care which is tailored to their plans for the future whether this be specialty or primary care. These residents are encouraged to have this experience reinforce and present a unique time to enhance their communication skills with patients/families. A similar elective is available to medical students.

Dr. Cherrick has presented at the National/International, State and Local (including within the institution) on various topics within Pediatric Palliative Care including being a guest speaker. She is also involved in teaching of Palliative Care fellows at Rochester Regional Medical Center.

The team members are also regular participants at National and International conferences within the field.

Faculty Overview:

Dr. Cherrick, as the medical director and founder of Pediatric Palliative Care at Upstate. She is board certified in Hospice and Palliative Care. She leads the CHOICES Pediatric Palliative Care team with particular interest in perinatal palliative care, particularly of genetic disorders such as Trisomy 13/18 as well as symptom management and care of the child with severe neurological impairment.

Dr. Jill Majeski is a pediatric psychologist focused on providing psychological services with pediatric sickle cell disease and pediatric palliative care populations. Her primary interests are in optimizing quality-of-life for children living with serious and complex medical conditions, communication in the healthcare setting, medical decision-making, and psychosocial program development. She holds leadership positions with the Society of Pediatric Psychology and other professional groups with goals of further developing formal education and training opportunities for pediatric psychologists interested in specializing in pediatric palliative care.

Dr. Nusrat Zaman is a Pediatric Hospitalist and the Associate Program Director for the PHM fellowship. Her interest in Pediatric Palliative Care stemmed from encountering hospitalized children with complex diagnoses and medical issues and recognizing the benefit of early pediatric palliative care intervention. Her primary interests are pain management, particularly improving comfort for hospitalized children during bedside procedures and emphasizing an interdisciplinary approach to chronic pain.

Clinical Snapshot



Pediatric Pulmonary, Asthma & Sleep Medicine

Faculty

Zafer Sultant, MD, Associate Professor of Pediatrics, Division Director

Chris Fortner, MD, PhD, Associate Professor of Pediatrics, Cystic Fibrosis Care Center Director

Robert V. Hingre, MD, Assistant Professor of Pediatrics

Christina Nicolais, PhD, Assistant Professor of Pediatrics

Marium Yabe-Gill, MD, Assistant Professor of Pediatrics

Clinical Overview

The Division of Pulmonary, Asthma, and Sleep Medicine provides care for the full range of respiratory disorders and diseases in children and adolescents.

The Cystic Fibrosis Center (Robert C. Schwartz Cystic Fibrosis Program) is accredited by the Cystic Fibrosis Foundation. A team of physicians, a nutritionist, a social worker, cystic fibrosis (CF) care nurses, a CF Center coordinator, a pharmacy technician, a specialized CF pharmacist, and the CF Center psychologist strive to provide excellent care for children with CF.

The Center has been the site for many of the landmark therapeutic trials sponsored by the Cystic Fibrosis Foundation's Therapeutic Development Network (TDN).

The Center's physical therapist led the US CF Physical Therapy annual meeting in 2019-2020, and he was asked in December 2021 to be the Physical Therapy Co-Representative on the North American Cystic Fibrosis Conference Program Planning Committee. It is a tremendous honor to be a part of this program and organization to help move care for patients with CF forward.

The Center has been repeatedly recognized by the Cystic Fibrosis Foundation for excellence in partnership with the Central New York chapter of the Cystic Fibrosis Foundation, most recently in 2021.

The Asthma Program: Our mission is making children with asthma breathe easier and free from asthma symptoms. A group of enthusiastic and experienced nurses and providers collaborate and apply the latest asthma management guidelines, including monitoring and improving adherence via a comprehensive Medication Management Program.

The Sleep Center cares for sleep-related breathing disorders, insomnia, parasomnias, narcolepsy and other hypersomnia, circadian rhythm disorders and rhythmic movements disorders, and restless legs syndrome. The Center is unique for having on staff a dedicated sleep respiratory therapist to support families and children treated with Positive Airway Pressure therapy.

The Bronchopulmonary Clinic, directed by Dr. Robert Hingre, strives to provide comprehensive care to infants born with extreme prematurity or other serious congenital problems that will affect their pulmonary function. Care is provided from the time of discharge from the NICU and continues throughout childhood for patients who have long-term pulmonary problems.

Aerodigestive Disorders: We coordinate the care of these children with complex medical issues with Pediatric GI, Pediatric ENT, and Speech pathologists.

Neuromuscular Disorders: We work with Pediatric Neurology on application of noninvasive ventilation and cough assist device for infants with SMA type 1 and children/adolescents with Duchene muscular dystrophy. We care for respiratory complications in children with neuromuscular disorders, such as aspiration and restrictive lung diseases.

We care for children dependent on invasive and non-invasive assisted ventilation.

We treat **rare lung diseases** such as primary ciliary dyskinesia and **interstitial lung diseases**, and **congenital lung conditions** such as bronchogenic cysts, congenital cystic adenomatoid malformations and lobar emphysema.

Pulmonary Pediatric Psychology collaborates with pulmonary providers and offers assessment and intervention services to address emotional, behavioral, and social concerns related to pulmonary medical diagnoses (e.g., sleep difficulties, treatment compliance/adherence, coping with disease burden, medical/procedural anxiety, adjustment to new diagnosis).

We offer comprehensive **pediatric pulmonary function assessments and cardiorespiratory stress testing**.

A 5-bed **Pediatric Sleep Laboratory** within Upstate Sleep Laboratory provide overnight comprehensive sleep studies, home sleep studies, Multiple Sleep Latency, and Maintenance of Wakefulness tests.

Flexible bronchoscopy is provided at the Pediatric Surgery Center in 3 North, University Hospital.

Outpatient care is provided at the Physician Office Building suite 503. Inpatients are cared for both in the Upstate Golisano Children's Hospital and the Crouse Hospital Neonatal Intensive Care Unit.

Educational Highlights

The Division is invested in the education of all learners, from medical school to residency. We provide:

- Docs for Tots shadowing opportunities for first year medical students
- An outpatient site for the third-year medical students during their Pediatric clerkship
- Elective opportunities for 4th year medical students
- Elective site for 1st-3rd year Pediatric Residents
- Grand rounds for the Department of Pediatrics
- 6 core curriculum lectures for Pediatric Residency Program
- Annual CF teaching day
- Annual Sleep Teaching Day, a CME activity

Research Highlights

The Division is active in **quality improvement**.

Current projects:

- Improving adherence to therapies by application of comprehensive medications management program
- Early detection and monitoring of CF related liver disease by applying the Stanford Algorithm
- Pre-Visits Comprehensive Evaluations for children with CF

Current CFF TDN therapeutic studies at our Center, Dr Fortner is the PI

- VX20-121-103: A Phase 3, Randomized, Double-blind, Controlled Study Evaluating the Efficacy and Safety of VX-121 Combination Therapy in Subjects with Cystic Fibrosis Who Are Homozygous for F508del, Heterozygous for F508del and a Gating (F/G) or Residual Function (F/RF) Mutation, or Have At Least 1 Other Triple Combination Responsive CFTR Mutation and No F508del Mutation
- BEGIN-OB-19: A Prospective Study to Evaluate Biological and Clinical Effects of Significantly Corrected CFTR Function in Infants and Young Children

Awards and Recognition

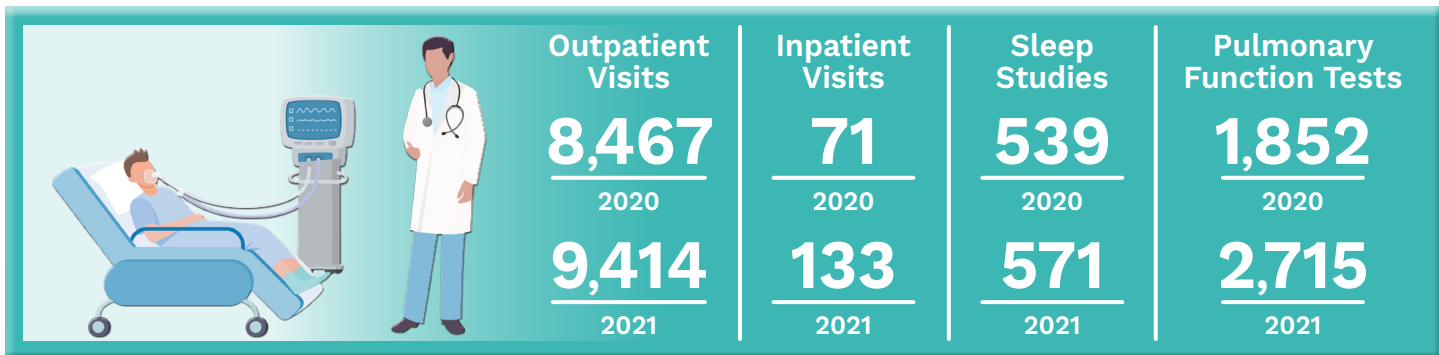
The Upstate Cystic Fibrosis Center (Robert C. Schwartz Cystic Fibrosis Program) was recognized at the 2021 North American Cystic Fibrosis Conference for its excellence in partnership with the Central New York chapter of the Cystic Fibrosis Foundation.

Grants and Contracts

Cystic Fibrosis Foundation Care Center Grant. PI. 2020-2021.

Cystic Fibrosis Foundation Therapeutics Development Network Grant. PI. 2020-2021.

Clinical Snapshot



The Pediatric Pulmonary & Sleep Center is dedicated to providing personalized and quality care to our pediatric patients with pulmonary diseases and sleep disorders. We strive to stay up to date with the most innovative practices and research. We pride ourselves on putting our patients and their family members first so that everyone will feel comfortable and confident in our care.

Quality and Safety

Faculty

Melissa Schafer, MD, Associate Professor of Pediatrics, Pediatric Quality Officer

Sarah Harding, MD, Assistant Professor of Pediatrics, ICU Quality and Safety

Beth Nelsen, MD, Associate Professor of Pediatrics, Pediatric Residency Program Director

Nursing

Bonnie Seitz, MS, RN, CNS, CPN, Pediatric Patient Safety Officer

Michelle Jeski, MSN, RN, PCNS-BC, CPN

Clinical Overview

Our patient safety program is Children's Hospitals' Solutions for Patient Safety (SPS), in which we have participated since 2012. Through this program, we work to reduce hospital-acquired harm and staff injuries. We were honored to be named "Hospital of the Month" from SPS in July, 2021, for achieving goals of zero pressure injuries per 1000 patient days, zero central line infections per 1000 line days, AND zero unplanned extubations per 100 ventilator days, an accomplishment shared by only 20 other hospitals nationwide. Our current Preventable Harm Index is 5 children, and our current Serious Safety Event rate is 1.29 per 10,000 adjusted patient days in early 2022, down from around 3.02 in 2021.

We are also active participants in the Pediatric Trauma process improvement program, the Pediatric Surgery process improvement program, the Children's Hospital Association Improving Pediatric Sepsis Outcomes collaborative, local projects of our own design, and more. For faculty we have an American Board of Pediatrics Maintenance of Certification (MOC) portfolio program; since starting in 2019 we have approved 9 separate quality improvement projects and have been approved for a 2-year renewal.

Educational Highlights

Our program has three distinct phases occurring over the three-year training cycle with a few longitudinal elements, in addition to quarterly didactic sessions.

1. First year Pediatric residents complete the Institute for Healthcare Improvement basic certificate online, do the solutions for patient safety error prevention course, and develop a proposed SMART aim and PDSA cycle. The last two are worksheets, which they are encouraged to prepare in small groups.
2. In the second year we take those proposed PDSA cycles and add to them faculty mentors and QI mentors who strongly encourage completion of the PDSA cycle including data, submission for MOC credit and presentation
3. In the third year each resident does a Morbidity & Mortality conference (M&M) for grand rounds on a case in which they believe we could have done better. Preparation includes identifying a faculty mentor, developing an interdisciplinary team, identifying health equity factors, doing an event timeline, a cause analysis fishbone, and an impact/effort grid for proposed system improvements. Since redesigning our M&M conference in this manner two years ago, we have had 28 conferences yielding 61 recommended systems improvements, of which 20 have been implemented thus far.

Finally, for first time test takers of the American Board of Pediatrics certification exam, our graduating residents have scored a perfect 300 on the "Research Methods, Patient Safety, and Quality Improvement" subsection on both the 2020 and 2021 exams.

Pediatric Rheumatology and Integrative Medicine

Faculty

Caitlin Sgarlat, DO, MSc, Associate Professor of Pediatrics, Division Director; Department of Pediatrics Wellness Officer; Upstate Information Technology Medical Advisor

William Hannan, MD, Associate Professor of Pediatrics

Anjali Sethi Sura, MD, Assistant Professor of Pediatrics

Clinical Overview

The Division of Pediatric Rheumatology provides comprehensive evaluation and treatment of children, adolescents, and young adults with juvenile idiopathic arthritis (JIA), systemic lupus erythematosus (SLE), juvenile dermatomyositis, and other related disorders, as well as inflammatory processes associated with COVID-19 infection. Other children seen in the Pediatric Arthritis Center include those referred for post-infectious causes of joint pain and arthritis, evaluation of acute and chronic joint pain, limp, and fevers of unknown origin.

All patients referred to the Pediatric Arthritis Center are seen and evaluated by one of our pediatric rheumatologists. There is also a nurse dedicated to the program who is available for teaching families and children. Other ancillary services include pediatric physical and occupational therapy, social work, and child life. There are now over 200 children with chronic rheumatologic disease followed by the division.

Integrative care is also offered in our Division of Pediatric Rheumatology and Integrative Medicine. The pediatric rheumatology clinic is a participating site in the Childhood Arthritis and Rheumatology Research Alliance (CARRA). Dr. Caitlin Sgarlat is a member of CARRA's research collaborative to prevent, treat and cure pediatric rheumatic diseases. Dr. Sgarlat also incorporates integrative methods of medicine in combination with, when needed, conventional practices.

Educational Highlights

Our Rheumatology providers have medical students, residents, and graduate medical fellows rotate with them in both Pediatric Rheumatology and Pediatric Integrative Medicine Clinics. They give formal and impromptu lectures and do teaching on various diseases and treatment management as we see patients, as well as topics regarding integrative therapies and tools. They also give our Pediatric Rheumatology Lecture series to the residents each year consisting of at least 2 formal lectures. Dr. Sgarlat provides wellness lectures and workshops for our residents.

Research Highlights

The Pediatric Rheumatology Clinic was accepted in 2012 as a "small site" member of the CARRA, which is a national collaborative research group. The division continues to participate in quality improvement projects regularly.

In 2021, the IRB approved two projects that are part of a multidisciplinary collaboration that the in which division is actively participating. One is Cytokine Profiling of Multisystem Inflammatory Syndrome in Children (MIS-C); the other is a IS-C Collaborative quality project.

Division Highlights

Another important clinical highlight was the creation of the innovative Pediatric Integrative Medicine Clinic. This clinic has also grown substantially since its inception in 2015. Prior to this creation there was not a resource of Integrative Medicine for children in Central New York. In this clinic, **Dr. Sgarlat** strives to enhance each patient's health and wellbeing, as well as prevent and treat disease. Integrative methods of medicine, in combination with any necessary conventional practices, are

offered in a welcoming and stimulating peaceful environment. A comprehensive integrative approach is used. This approach is anchored in lifestyle medicine in combination with nurturing intrinsic healing of the whole patient. Integrative treatment can include any of the following modalities: dietary recommendations (supplements, botanicals), mind/body medicine (guided imagery, yoga, breathing techniques), manual medicine (massage therapy, physical therapy), and whole medicinal systems (Ayurveda, Traditional Chinese Medicine therapies such as acupuncture or acupressure, and aromatherapy).



Specialists in our Division of Rheumatology and Integrative Medicine provide comprehensive services for the evaluation and management of infants, children, and adolescents with rheumatologic disorders.

Children are often referred to a pediatric rheumatologist by their doctor for a variety of symptoms that are often puzzling. We provide an interdisciplinary approach that often includes nursing care, various treatments, referrals to other specialists including ophthalmology and orthopedics, and referral to physical and occupational therapy.

Other Pediatric Specialties

Pediatric Anesthesiology

Faculty

Joseph Resti, MD, Assistant Professor of Anesthesiology, Director of Pediatric Anesthesiology

Jadwiga Bednarczyk, MD, Assistant Professor of Anesthesiology

Rahila Bilal, MD, Associate Professor of Anesthesiology, Co-Director of Pediatric Anesthesiology

Elizabeth Demers Lavelle, MD, Assistant Professor of Anesthesiology

Chiagozie Fawole, MD, Assistant Professor of Anesthesiology

Robert Kale, MD, Assistant Professor of Anesthesiology, Director of Pediatric Regional Anesthesia

Venkata Sampathi, MD, Clinical Instructor of Anesthesiology

Bettina Smallman, MD, Professor of Anesthesiology and Pediatrics

Clinical Overview

The Division of Pediatric Anesthesiology in the Department of Anesthesiology continues to experience significant growth. Surgeons from all specialties provide care for children requiring surgery in the Olivia Louise Pietrafesa Center for Children's Surgery (CCS). In addition, the demand for procedures conducted outside the operating room environment (CT, MRI, Interventional Radiology, Radiation Therapy, and Nuclear Medicine) continues to grow steadily.

The pediatric medical specialties, such as pulmonology and gastroenterology, have increased their procedural volume, and the pediatric oncologists have continued to utilize pediatric anesthesiology services frequently for interventional procedures. As one of the few referral centers in Central New York for children undergoing MRIs and CTs, we have been able to streamline the process, making it safe and efficient to accommodate an ever-increasing demand.

The Pediatric Anesthesia Division participates actively in anesthesia coverage at the Upstate Ambulatory Surgical Center.

The Pediatric Anesthesia Division continued to show a strong commitment to the education of our anesthesiology residents and medical students. In addition to active participation in patient care, residents rotating in pediatric anesthesiology undergo a series of didactic lectures and journal clubs. Our team also teaches basic pediatric airway skills to Pediatric and Emergency Medicine residents and fellows who rotate through the CCS.

Our Division of Pediatric Anesthesiology consists of 8 fellowship-trained pediatric anesthesiologists. Our clinical care extends throughout Upstate Golisano Children's Hospital (GCH), providing services within our five-operating room Center for Children's Surgery, along with many outside of the OR locations, including MRI, CT scan, interventional radiology, and radiation oncology. We also care for all surgical patients at the Level 4 NICU at neighboring Crouse Hospital, who are temporarily transferred to GCH at Upstate specifically for surgical and anesthesiology care.



Pediatric Cardiovascular-Thoracic Surgery

Faculty

George M. Alfieris, MD, Clinical Associate Professor of Surgery and Pediatrics

Mohamed F. Algahim, MD, Clinical Assistant Professor of Surgery

Shuichi Yoshitake, MD, Clinical Assistant Professor of Surgery

Clinical Overview

Syracuse is fortunate to have a high quality, nationally known program in congenital cardiac surgery. Part of the reason this program has been successful is the innovative arrangement Dr. George Alfieris has developed with the University of Rochester, by which his time is shared between both institutions. This has enabled both programs to benefit from skilled surgery and has allowed Dr. Alfieris and his colleagues to undertake a higher volume of cases than he would at either center alone. The team also provides crucial support to our ECMO program.



Thirty-six life-sized fiberglass horses arrived in Syracuse on Dec. 18, 2001, as part of the High Falls Brewing Company's fund-raising community art project, "Horses On Parade." Only a few of the horses still stand in Syracuse today. This pony greets you inside the entrance of Upstate Golisano Children's Hospital.

Pediatric Emergency Medicine

Faculty

Tyler Greenfield, DO, Assistant Professor of Emergency Medicine and Pediatrics, Medical Director

Leah Bennett, MD, MPH, Assistant Professor of Emergency Medicine and Pediatrics

Vincent Calleo, MD, Assistant Professor of Emergency Medicine and Pediatrics

Gregory P. Conners, MD, MPH, MBA, Professor of Pediatrics and Emergency Medicine

Kayla Dueland-Kuhn, MD, Assistant Professor of Emergency Medicine and Pediatrics

Erin Hanley, MD, Assistant Professor of Emergency Medicine and Pediatrics

Samantha Jones, MD, Assistant Professor of Emergency Medicine and Pediatrics

Alison McCrone, MD, Assistant Professor of Emergency Medicine and Pediatrics

Rhonda Philopena, MD, Assistant Professor of Emergency Medicine and Pediatrics

Peter David Sadowitz, MD, Associate Professor of Emergency Medicine and Pediatrics

Asalim Thabet, MD, Assistant Professor of Emergency Medicine and Pediatrics

Matthew Thornton, MD, Associate Professor of Emergency Medicine and Pediatrics

Fellows (2021-2022)

Timothy Bright, MD

Adrienne Cheng, MD

Kathryn Keenan, MD

Philip Mackewicz, MD

Mitchell McKinnon, MD

Kimberly Wells, MD

Clinical Overview

The Division of Pediatric Emergency Medicine provides expertise in pediatric emergency care. This service is dedicated to the children and families of the entire CNY region. Practitioners are experts in the care of acute complaints affecting infants and children, including major and minor trauma, poisonings, burns, behavioral illnesses, and major medical issues. Care is provided in a 22-bed modern Pediatric Emergency Department setting.

Specialists in Pediatric Emergency Medicine have completed fellowships in Pediatric Emergency Medicine with board certification under the shared management of both the American Board of Pediatrics and American Board of Emergency Medicine. In addition, the Pediatric Emergency Department maintains an active and ever-growing component of specialists in Pediatric Emergency Nursing, who have developed expertise in the care of ill and injured infants and children. We also provide child life specialist and pharmacist services during our busiest hours.

The Division also operates the Golisano Pediatric After Hours children-only urgent care at the Upstate Community Hospital, under the medical direction of Dr. Alison McCrone.

Division Highlights

The Pediatric Emergency Department was given the Upstate Medical University President's Employee Recognition Award as Clinical Team of the Year, 2021.

Educational Highlights

The well-established Pediatric Emergency Medicine Fellowship training program accepts two new fellows each year, following their residency training in either Pediatrics or Emergency Medicine.

Fellows produce original research during the course of their training. Dr. Erin Hanley is director of this successful training program.

The Division of Pediatric Emergency Medicine presents an Annual Pediatric Emergency Medicine Assembly, held in the early fall in Syracuse. Attendees range from 100 to 150 persons encompassing all levels of pediatric emergency care, including pre-hospital care providers, nurse practitioners, physician assistants, and physicians. This teaching day has been a tradition for nearly 20 years. In addition, the Division of Pediatric Emergency Medicine is responsible for primary education within our field with didactic and simulation training provided to residents in Pediatrics, Emergency Medicine, and Family Practice. We also maintain an active clinical training environment for these aforementioned specialty residents.

Clinical Snapshot



Upstate University Hospital's pediatric emergency department features 18 private exam rooms with a capacity to serve 24 patients. The pediatric emergency department sees about 27,000 visits annually. The space also has its own pediatric-friendly diagnostic radiology unit, meaning children do not have to leave the unit for some diagnostic tests. The space has also been designed and furnished with kids in mind, with plenty of gaming systems for all ages.



Child Neurology

Faculty

Ai Sakonju, MD, Assistant Professor of Neurology and Pediatrics, Division Director

Arayamparambil C. Anilkumar, MD, Associate Professor of Neurology and Pediatrics

Nicole C. Brescia, MD, Assistant Professor of Neurology and Pediatrics

Bagwan Moorjani, MD, Clinical Assistant Professor of Neurology and Pediatrics

Nancy Havernick, MD, Assistant Professor of Neurology, Pediatrics and Psychiatry

Steven Rothman, MD, Clinical Professor of Neurology and Pediatrics

Clinical Overview

Child neurology services are provided through the Section of Child Neurology in the Department of Neurology. These faculty members have joint appointments in the Department of Pediatrics.

The Child Neurology team provides comprehensive services and compassionate care by physicians trained to evaluate infants, children, and adolescents with common and rare disorders of the nervous system. These include diseases affecting the brain, spinal cord, nerves, neuromuscular junction, and muscles. These physicians are active educators teaching future physicians and the community. They also understand the importance of providing excellent leading-edge diagnostic evaluations, programs, and treatments by research and collaboration with experts to provide the best care appropriate for each patient. Being flexible in meeting the needs of the community are paramount and reflected in the ongoing creation and continuation of specialty clinics below.

We now have a well-developed a ketogenic diet program, under the direction of **Dr. Nicole Brescia**.

Subspecialty Clinics

Epilepsy: Children with epilepsy have access to services of the Department of Neurology's epilepsy team and have the full services of the Department of Clinical Neurophysiology available to them including, electroencephalography, long-term video electroencephalographic monitoring, ambulatory electroencephalograms, and epilepsy surgery. Inpatient epilepsy monitoring is at the Upstate Golisano Children's Hospital and includes working with the Department of Neurosurgery for surgical evaluation of refractory epilepsy. In addition, a new onset seizure/spells clinic is available for rapid and thorough evaluation of children with unexplained events or concern for seizures. **Dr.**

Arayamparambil Anilkumar is the Director of the Pediatric Epilepsy program.

Neuromuscular: Children with muscular dystrophies and hereditary neuropathies are eligible for care under the auspices of the Muscular Dystrophy Association clinic. Evaluation of new and ongoing pediatric neuromuscular patients can also be done by certified faculty trained in the evaluation and management of these disorders. Testing may include muscle biopsy and/or nerve conduction and electromyogram testing useful in determining disorders of the nerves and muscles as well as neuromuscular junction. Patients with both hereditary and acquired or autoimmune neuromuscular disorders may be seen by faculty with specific expertise.

Tumors: In collaboration with **Dr. Gloria Kennedy** and her pediatric oncology colleagues, children with brain tumors and other tumors of the central nervous system are cared for at the monthly neuro-oncology clinic at Golisano Children's Hospital.

Headaches: All types of headaches seen in children and teens with both common and refractory headaches are evaluated and treated by several faculty members. Patients may be seen in concussion clinic in the department of rehabilitation and neurology clinic for comprehensive care.

Neuro-ophthalmology: This is a unique clinic with faculty trained to perform the evaluation of visual

pathways in infants to adolescents which can include pseudotumor cerebri, optic neuritis, nystagmus, and other disorders. Specialized diagnostic tests including visual evoked responses, ocular imaging, and visual fields are also available.

Movement Disorders: Children with balance problems, intrusive movements such as tics, dystonia, neurotransmitter disorders, and problems with walking or hand use are seen for evaluation and treatment in the neurology clinic. Some patients with spasticity may be seen in coordination with the Physical Medicine & Rehabilitation and Developmental Pediatrics subspecialty groups for comprehensive management.

Clinical Snapshot



Our special areas of clinical interest include neuro-genetics, epilepsy, muscular dystrophy, neurocutaneous disorders (e.g. neurofibromatosis and tuberous sclerosis) and comprehensive neurological assessment. We are engaged in clinical research in the areas of epilepsy, muscular dystrophy, and neuro-genetics. Our team is composed of four board certified child neurologists and a child neurology nurse practitioner.

Pediatric Neurosurgery

Faculty

Satish Krishnamurthy MD, MCh, Professor of Neurosurgery, Director Minimally Invasive Surgery, Chair of Neurosurgery

Zulma Tovar-Spinoza MD, Associate Professor of Neurosurgery, Neurology, and Pediatrics, Director of Pediatric Neurosurgery

Clinical Overview

The Pediatric Neurosurgery division provides care for children with structural disorders of the brain and spinal cord. Our patients are from the regional community but also include referrals from other states and other countries. We enjoy collaborating with expert pediatric neurologists, neuroradiologists, neonatologists, and intensivists. We participate regularly with the Pediatric Epilepsy Center, Spina Bifida Program, Cranio-facial Center, Trauma Center, Centers for Development, Behavior and Genetics, and the Physical Medicine and Rehabilitation Programs.

The division has expertise in the treatment of brain and spine tumors, congenital and developmental malformations, epilepsy, hydrocephalus, nervous system vascular lesions, pediatric brain trauma, and spasticity.

Neurosurgeons in the division provide a complete array of pediatric services including:

- Surgical treatment of congenital and developmental lesions of the nervous system [Spina bifida, Chiari Malformation, Craniocervical spine abnormalities, tethered cord]
- Surgical treatment of brain and spine tumors [Open surgery and endoscopic]
- Surgical treatment of craniosynostosis [skull reconstructive surgery]
- Surgical treatment of epilepsy [invasive monitoring and resection of the brain area producing epilepsy]
- Surgical treatment of hydrocephalus [shunts and endoscopic third ventriculostomies -without shunt]
- Surgical treatment of spasticity [Baclofen Pumps, Dorsal Rhizotomies]
- Surgical treatment of vascular lesions of the nervous system [aneurysms, arterio-venous malformations, Moyamoya disease]

Dr. Zulma Tovar-Spinoza has also established the only center in Upstate New York to offer MRI Guided laser ablation surgery as an option for patients with brain tumors and epilepsy. The use of other new technologies are incorporated to improve the endoscopic and minimally invasive treatment of brain tumors, including lesions seen in tuberous sclerosis complex.

The Spina Bifida program has been consolidated with a multidisciplinary team lead by **Dr. Nienke Dosa**. The faculty has participated in educational sessions with patients and families and created a network of communication to keep the care of these complex patients up-to-date.

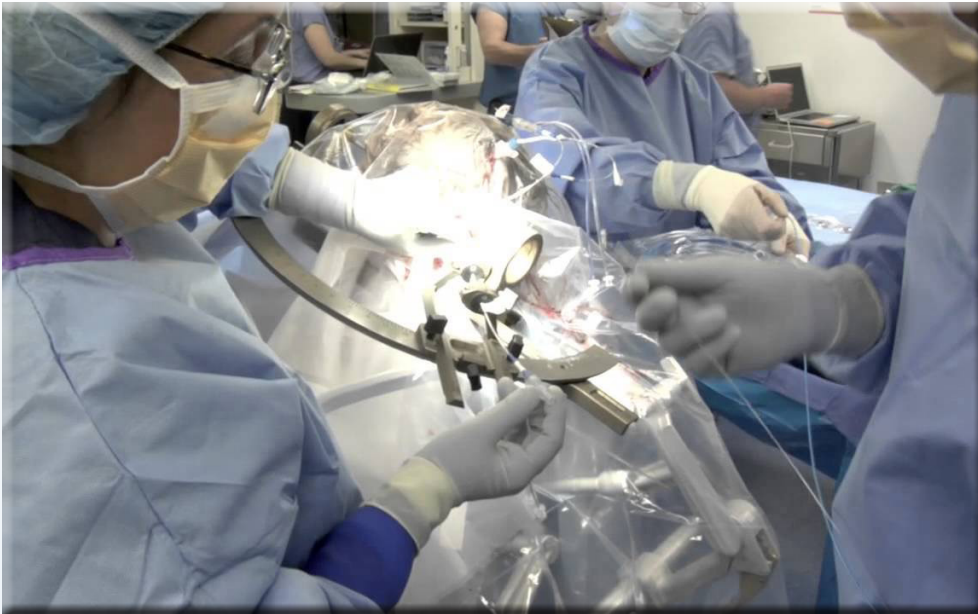
The division has established a continuous and active prenatal consultation service for the parents of individuals identified with central nervous system lesions. That allows correct preparation of the family as well as the discussion of possible immediate surgical procedures.

Faculty provide surgical solution to patients with craniosynostosis, as well as treating patients with plagiocephaly in our clinic. In conjunction with **Dr. Sherard Tatum** (Otolaryngology) we provide a multidisciplinary approach to these patients.

The faculty are active colleagues in the operation of the pediatric trauma program.

Endoscopic surgery for simple and complex hydrocephalus continues to be the preferred approach in our division. However, when this is not an option and shunts need to be used, optimization of these devices is utilized. **Dr. Satish Krishnamurthy** continues his research on using a sensor to determine if a shunt has a normal or dysfunctional flow.

Faculty have reviewed the St. Louis Children's and the Vancouver protocols for patients with spastic diplegia and developed improved protocols. The division opened a Tone Management Program in conjunction with **Drs. Margaret Turk** and **David Kanter** from the Department of Physical Medicine and Rehabilitation, and offers a comprehensive plan for the treatment of these patients.



Our pediatric neurosurgeons, often working in multidisciplinary teams, treat a full range of central nervous system problems that may present prenatally, in infancy or in childhood.

Among the disorders routinely treated are brain and spine tumors, traumatic brain and spinal cord injury, abnormalities of the spine and skull base, hydrocephalus, spina bifida, craniofacial anomalies, spasticity and epilepsy, and congenital anomalies of the brain and spinal cord.

Pediatric Ophthalmology

Faculty

Stephen Merriam, MD, Associate Professor of Ophthalmology and Pediatrics, Section Chief

Robert Fechtner, MD, Professor and Chair of Ophthalmology

Katharine Liegel, MD, Assistant Professor of Ophthalmology and Pediatrics

Preethi Ganapathy, MD, Assistant Professor of Ophthalmology

Robert Swan, MD, Associate Professor of Ophthalmology

Samuel Alpert, MD, Associate Professor of Ophthalmology

Clinical Overview

The division of Pediatric Ophthalmology in the Department of Ophthalmology has undergone significant growth in the last two years with the addition of the first two fulltime pediatric ophthalmologists, **Drs. Stephen Merriam** (10/20) and **Katharine Liegel** (10/21). They take care of children with a wide variety of acute and chronic eye conditions. **Drs. Robert Fechtner** and **Preethi Ganapathy** are both fellowship-trained in glaucoma and manage children with glaucoma. **Dr. Robert Swan** is fellowship trained in uveitis and ocular inflammation and takes care of children with uveitis. **Dr. Samuel Alpert** helps with both inpatient and outpatient pediatric eye care.

With such growth, the number of children seen by physicians in the Department of Ophthalmology has increased tremendously. Patients come from both the local and regional communities. Regional extension is from the Canadian to Pennsylvania borders. Services include routine outpatient examinations, elective surgery, inpatient, and emergency consultation as well as surgical trauma.

The Department of Ophthalmology continues to show a strong commitment to the education of our ophthalmology residents, primary care residents, and medical students. In addition to active participation in patient care, residents undergo a series of didactic lectures and journal clubs.



Pediatric Orthopedic Surgery

Faculty

Stephen A. Albanese, MD, Professor of Orthopedic Surgery, Chair of the Department of Orthopedic Surgery, Chief of Pediatric Orthopedics

Danielle A. Katz, MD, Associate Professor of Orthopedic Surgery

Kathryn E. Palomino, MD, Assistant Professor of Orthopedic Surgery

Rajin Shahriar, MD, Assistant Professor of Orthopedic Surgery

Allyson Zakrzewski, MD, Assistant Professor of Orthopedic Surgery

Clinical Overview

Upstate Medical University's pediatric orthopedic group is one of Upstate New York's largest resources for children's musculoskeletal care. In addition to the management of traumatic injuries for children in the immediate Syracuse area, the group provides advanced care for complex musculoskeletal disorders for an extensive referral area.

Drs. Stephen Albanese, Danielle Katz, Kathryn Palomino, Rajin Shahriar and Allyson Zakrzewski are fellowship-trained pediatric orthopedic surgeons and care for children with any orthopedic condition, which may range from the neck down to the feet. **Dr. Shahriar** joined the practice in 2020 and **Dr. Zakrzewski** joined in 2021 to expand the department. Some of the common issues encountered in pediatric orthopedics for which the group offers expertise include:

- Trauma and fracture management, including fractures that damage the growth plate
- Surgical management of bone and joint infections
- Limb deformity and deficiency
- Spine disorders, such as scoliosis or kyphosis
- Developmental hip dysplasia and dislocations and other complex disorders of the hip
- Foot deformity
- Neuromuscular disorders and gait disturbances
- Orthopedic syndromes, such as Down syndrome
- Skeletal dysplasia

The Division of Pediatric Orthopedics consists of these individuals who provide the bulk of the pediatric musculoskeletal care for the Upstate system. One or more of these doctors are present in our pediatric orthopedic clinic daily, where there is an add-on program during business hours to handle urgent musculoskeletal conditions. In addition, the group has an evening and weekend walk-in urgent care program.

In addition to the core group of pediatric orthopedic surgeons, others within the orthopedic department provide additional specialty care for children. **Dr. Timothy Damron** is trained in orthopedic oncology and is an expert in the management of benign and malignant skeletal conditions. **Dr. Brian Harley** completed a pediatric hand and upper extremity fellowship, and helps with the management of congenital and traumatic conditions of the upper extremity. **Dr. William Lavelle** completed a spine fellowship and has a special interest in pediatric spinal deformity. The adult trauma surgeons, **Drs. Emil Azer, Matthew Sullivan, and Zachary Telgheder** help to take care of pediatric traumas on call as well. **Drs. John Cannizzaro, Matthew Scuderi and Zachary Vredenburg** take care of pediatric sports injuries, such as ACL and other knee reconstructions.

Educational Highlights

The Division of Pediatric Orthopedic Surgery is responsible for the education of SUNY Upstate’s 25 orthopedic residents, including dedicated rotations at the PGy-2 and PGy-5 levels. This includes didactic lectures, simulations, case conferences, and twice-monthly indications conferences. In addition, the division runs a clinical rotation for interested fourth-year medical students. Finally, the division is involved in the teaching of family medicine rotators during their orthopedic rotation.

Clinical Snapshot



The unique specialty of pediatric orthopedics deals with the diagnosis and treatment of conditions involving growing bones, joints, muscles, and other tissues in children. Upstate Orthopedics is the only practice in Central New York that has expert surgeons with advanced training in pediatric orthopedic surgery. Our Board certified fellowship trained pediatric orthopedic surgeons provide specialty orthopedic care for children from newborns to age 18.

Pediatric Otolaryngology

Faculty

Amar C. Suryadevara, MD, Associate Professor and Interim Chair of Otolaryngology and Communication Sciences

Anthony Mortelliti, MD, Associate Professor of Otolaryngology and Communication Sciences and Pediatrics

Sherard Tatum, MD, Professor of Otolaryngology and Communication Sciences and Pediatrics

Clinical Overview

The Division of Pediatric Otolaryngology provides state-of-the-art management for children with ear, nose, and throat disorders, as well as craniofacial anomalies and airway problems. The department provides care for a broad spectrum of patients with face, head, neck, and aerodigestive related problems, utilizing a multidisciplinary approach to evaluation and treatment. This program is dedicated to excellence in clinical care as well as research and teaching.



Pediatric Radiology

Faculty

Michele Lisi, MD, Interim Chair of Radiology, Associate Professor of Radiology, Division of Pediatric Radiology

Saurabh Gupta, MBBS, DNB, DABR, CAQ, Section Head, Assistant Professor of Radiology

Anand Majmudar, MD, DABR, Assistant Professor of Radiology

Ravikumar Hanumaiah, MD, Assistant Professor of Radiology

Clinical Overview

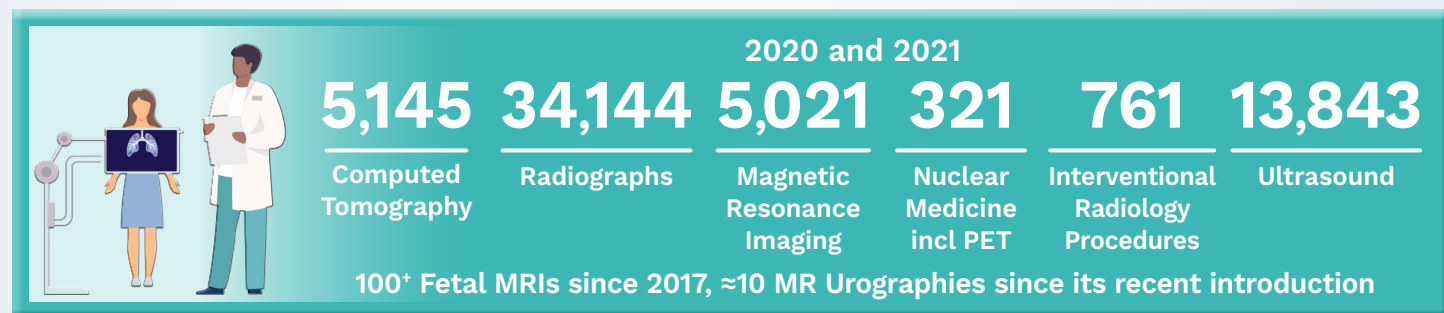
Members of the Pediatric Radiology Division provide leadership and expertise in the movement towards safer scanning for children in the ER, outpatient, and inpatient settings. Our team has established guidelines used around the country for safe, low-dose imaging practices. Our radiologists interpret every scan, providing expertise that helps our interdisciplinary teams to make the best decisions about patient care. Our team performs a wide variety of diagnostic tests, from X-ray, CT scans, MRI, Nuclear scans and PET scans, to fluoroscopy and interventional procedures. Noninvasive fetal MRI techniques were introduced in 2017, to extend and support the integrated specialty of maternal fetal medicine. Another new addition is the advanced MR urography technique, used for detailed evaluation of structure and functional analysis of the urinary tract as an added compliment to integrated urology care. Newly introduced contrast ultrasound has further improved diagnostic pediatric integrated care.

Extended multidisciplinary support is provided through tumor board, vascular board, rheumatology rounds, non-accidental trauma committee, endocrine board, M&M, perinatal, peds TPIC, surgical and system meetings to the respective specialties.

Educational Highlights

Our faculty are involved in variety of educational activities. Since beginning of 2017, our division has established the foundation of an ACGME-implemented pediatric radiology educational curriculum and offered rotations towards residents training. Residents are trained to develop skills towards a collaborative approach in multi-disciplinary patient management. The Division provides stewardship of education and research programs in pediatric radiology for radiology residents, medical students, and technical students. Also, responsibilities include evaluation and mentoring of assigned residents. Our faculty also provide several lectures to the radiology residents.

Clinical Snapshot (2020 and 2021)



Pediatric Rehabilitation Medicine

Faculty

Margaret A. Turk, MD, SUNY Distinguished Service Professor, Physical Medicine and Rehabilitation, Pediatrics, Public Health & Preventive Medicine

David M. Kanter, MD, Clinical Assistant Professor of Physical Medicine and Rehabilitation

Clinical Overview

Pediatric Rehabilitation Medicine (PRM), a subspecialty of Physical Medicine & Rehabilitation, provides diagnostic and management services to improve the health and functional abilities of individuals with a variety of disability conditions. Disabilities can be temporary or permanent, new onset or longstanding, and typically interfere with the ability to perform developmentally appropriate activities of daily living, mobility, and social engagement. The Upstate Department of Physical Medicine & Rehabilitation provides state-of-the-art rehabilitation and therapy services, with access to new therapies, equipment/devices, technology, and research protocols not otherwise available in the region. We provide services throughout the life continuum for children and youth, young adults, and adults with childhood onset disability. Our services are focused on enhancing function and promoting health and well-being. With the use of home and center-based therapies, assistive devices, a team approach, medications, counseling, education, and community resources, our goal is to improve our patients' quality of life. Services are provided in both outpatient and inpatient settings.

Outpatient Services:

In the outpatient setting we see children and adults with childhood onset disabilities with many different functional issues, from toe walking to spastic quadriplegia stemming from a variety of conditions. Diagnoses and conditions seen include: cerebral palsy, traumatic brain injury, spinal cord injury and dysfunction, spina bifida, non-surgical orthopedic issues, concussion, muscle diseases, nerve disorders, brachial plexus injury, burns, hypermobility and Ehlers Danlos syndrome, torticollis, and plagiocephaly.

Examples of Outpatient Services provided:

- **Overall Assessment:** history taking and examinations focus on age appropriate function, with an emphasis on an accessible, comfortable and comforting environment for patients and parents/care providers.
- **Tone Management:** assessment of spasticity and abnormal muscle tone to determine the appropriate therapeutic option: focused therapy/rehabilitation services and positioning, oral medications, botulinum toxin injections, consideration for and management of intrathecal baclofen, evaluation for selective dorsal rhizotomy and rehabilitation care following surgery.
- **Management and Direction of Therapies:** close working relationship with therapists at Upstate and within the community to help determine best interventions to improve function and relieve pain, as well as for full evaluations for mobility devices. Access to state-of-the-art interventions offers a wide variety of services.
- **Adult Spina Bifida Clinic** with participation in the Spina Bifida Registry program, supported by Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities.
- **Bracing Management:** evaluation for and prescription of bracing for the arms and/or legs to improve functional abilities; working closely with the orthotists in the community, we ensure each patient is prescribed and receives the bracing they need.

- **Mobility Management:** evaluation for appropriate mobility devices including canes, crutches, walkers, gait trainers, standers, and wheelchairs. Many devices can be trialed to determine best options.
- **Education Support:** working with different schools and systems, along with referral to our Rehabilitation Counselor, provides possibilities for patients to fully access their educational opportunities.
- **Close Collaboration with Other Pediatric Specialties:** as an example, intrathecal baclofen pump placement and selective dorsal rhizotomy are performed by pediatric neurosurgery. PRM manages the intrathecal pump as well as the needed rehabilitation following selective dorsal rhizotomy.

Inpatient Services:

Inpatient Pediatric Rehabilitation Services often begin with consultation during acute hospitalization at the Upstate Golisano Children's Hospital. Initial assessments by the PRM specialists determines what services will be needed to promote function and return to home. Discharge to home from the acute hospital with outpatient or home services may provide the needed support, however a more comprehensive inpatient rehabilitation program may be the best option. For children who require a broad range of services following some type of life altering event – orthopedic trauma, traumatic brain injury, spinal cord injury, nerve disorders, muscle disorders, amputation, and burns – the Upstate Inpatient Rehabilitation Facility provides the needed services. The Upstate Rehabilitation Program is the only program in the region offering inpatient rehabilitation services to children. For patients who are hospitalized outside of Upstate, referrals are reviewed for possible admission. A dedicated team of professionals including physicians, nursing, physical therapy, occupational therapy, speech therapy, music therapy, child life, social work, case management, therapeutic recreation, and psychology work with patients and their families throughout the admission. Families are an integral part of the team, and play an important role in the rehabilitation process, especially discharge planning. Family members are welcome to stay with their children on the rehabilitation unit. Following discharge, follow-up for continued support and management with the PRM specialist is scheduled.

Education Highlights

The Pediatric Rehabilitation Medicine staff are involved with the education of Upstate medical students and the Physical Medicine & Rehabilitation residents. PRM staff provide clinical educational experiences for medical students rotating through the department, including summer students just having finished their first year of medical school and 3rd and 4th year medical students rotating through their neuroscience clerkship or rehabilitation elective. Didactic presentations are also provided within the first two years of medical student education by PRM staff. The Upstate Residency Program is one of the only upstate New York programs that provides a comprehensive in- and outpatient pediatric experience for residents.

Research Highlights

Dr. Margaret Turk has been committed to research and education related to the health and wellness of people with disability. With the Disability & Health Research Team, educational tools to integrate disability into medical school curriculum, along with evaluation tools to assure enduring knowledge (<https://www.upstate.edu/pmr/education/toolkit/index.php>) have been developed and are continually updated. Recent research interests have been analysis of COVID-19 data related to disparate outcomes for people with disability, particularly people with intellectual and developmental disability, and cause of death differences and disparities for people with intellectual and developmental disabilities.

Dr. Turk serves on the National Institute of Neurological Disorders and Stroke (NINDS), National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH) Rehabilitation Common Data Elements (CDE) Working Group (Infant Pediatrics Subgroup), to determine recommended and/or required data elements for use in rehabilitation research.

Grants and Contracts

Turk MA

Disability Research and Dissemination Center (DRDC), Center for Disease Control and Prevention, National Center for Birth Defects and Developmental Disabilities cooperative agreement to expand NCBDDD's capacity to support research, knowledge and research translation, and disseminate evidence-based practices related to birth defects and developmental and other disabilities (www.disabilityresearchcenter.com); 2nd 5-year funding cycle. Co-PI

Erroneous Coding of Developmental Disabilities as Underlying Cause of Death, National Institutes of Health, National Institute on Aging. Through a coding analysis process of US Multiple Cause-of-Death Mortality files for people identified with IDD, the effect of socioeconomic characteristics, type of co-morbid conditions, and state funding or other contexts on outcomes or erroneous coding will be determined; 2020: ongoing. Consultant

The Physical Medicine and Rehabilitation Department at University Hospital offers a comprehensive therapy program for children with diagnoses including but not limited to cerebral palsy, stroke, spinal cord injury, traumatic brain injury, burns, concussion, cancer, cystic fibrosis, spina bifida, orthopedic injuries, torticollis, toe walking, and tone management. Our pediatric team of therapists include: Physical Therapists, Speech Language Pathologists, and Occupational Therapists.



Pediatric Surgery

Faculty

Andreas H. Meier, MD, MEd, Michael and Rissa Ratner Professor of Surgery and Pediatrics, Division; Director, General Surgery Residency Program Director and Vice Chair for Education, Department of Surgery

Tamer A. Ahmed, MD, Assistant Professor of Surgery and Pediatrics, Liaison Surgeon for the Children's Oncology Group

Jennifer D. Stanger, MD, MSc, Assistant Professor of Surgery and Pediatrics, Pediatric NSQIP Champion Surgeon

Kim G. Wallenstein, MD, PhD, Assistant Professor of Surgery and Pediatrics, Director, Pediatric Trauma Program

Michaela C. Kollisch-Singule, MD, Assistant Professor of Surgery and Pediatrics

Clinical Overview

Members of the Division of Pediatric Surgery provide care to children at the Golisano Children's Hospital as well as the Neonatal Intensive Care Unit at Crouse Hospital. At the Golisano Children's Hospital, our patients comprise the full range of the surgical problems of infancy and childhood and the division performs close to 2,000 operations per year. A close working relationship with the Division of General Pediatrics as well as all pediatric medical subspecialties affords the close collaboration that patients with these complex issues deserve. In addition, excellent relationships with all pediatric surgical subspecialties exists leading to a wide array of treatments necessary for the care of the children of Central New York. We have developed a significant interest in intestinal failure and severe constipation and have worked closely with our colleagues in the section of pediatric gastroenterology. Our neonatal patients demonstrate a wide range of congenital anomalies as well as those conditions acquired in the very early days of infancy. Close rapport with our neonatal colleagues has been the hallmark of our neonatal effort for the past 40 years.

Both inpatient and outpatient procedures are performed at the Pietrafesa Center for Children's Surgery, a separate operating suite for children in University Hospital. Our outpatient clinic is located at 725 Irving Ave. with many other pediatric specialty programs.

Since 2014, the Pediatric Trauma program has been accredited by the American College of Surgeons as a pediatric level 1 trauma center. Upstate Golisano Children's Hospital was the first pediatric hospital in New York State to receive this accreditation; there are currently only four accredited programs in the state. Under the leadership of **Dr. Kim Wallenstein**, we received the most recent recertification in 2021. Patient data suggest that the combined pediatric / adult trauma center at Upstate is the largest in the state of New York.

Dr. Jennifer Stanger joined us in 2014. Along with her busy clinical practice, she has focused her scholarly activity on quality improvement efforts for surgical care within Upstate Golisano Children's Hospital. She is our champion surgeon for the pediatric National Surgical Quality Improvement Program (NSQIP) and the Officer for Surgical Quality for the Children's Hospital. In that role she chairs the bimonthly surgical quality meeting and is part of our journey towards accreditation as a level 1 Center of Pediatric Surgery Excellence.

Our educational efforts focus on teaching third-year and fourth-year medical students as well as our junior and senior level general surgery residents. We are also pleased to participate in the education of the pediatric residency program: second year residents from this program join us for a month to get exposure to our inpatient and outpatient activities. We are pleased that our educational efforts

are valued highly by all of these learners. We have had a long history of successful matches into pediatric surgery fellowship, which is considered extremely competitive. **Dr. Andreas Meier** has been the program director for the General Surgery Residency since 2014. In this role, he has participated in multiple research projects on surgical education and co-authored multiple publications. We have also been able to attract some of our residents to our own specialty; 3 of them have matched into pediatric surgery fellowships.

Our most recent addition to the division, **Dr. Michaela Kollisch-Singule**, joined us in the fall of 2020. She is one of our own residency graduates and has already made an impact clinically by adding new surgical techniques to our portfolio. She has also been charged with the development of pediatric surgical basic science within the institution; her focus will be on neonatal surgical conditions and how they affect pulmonary function.



Pediatric Urology

Faculty

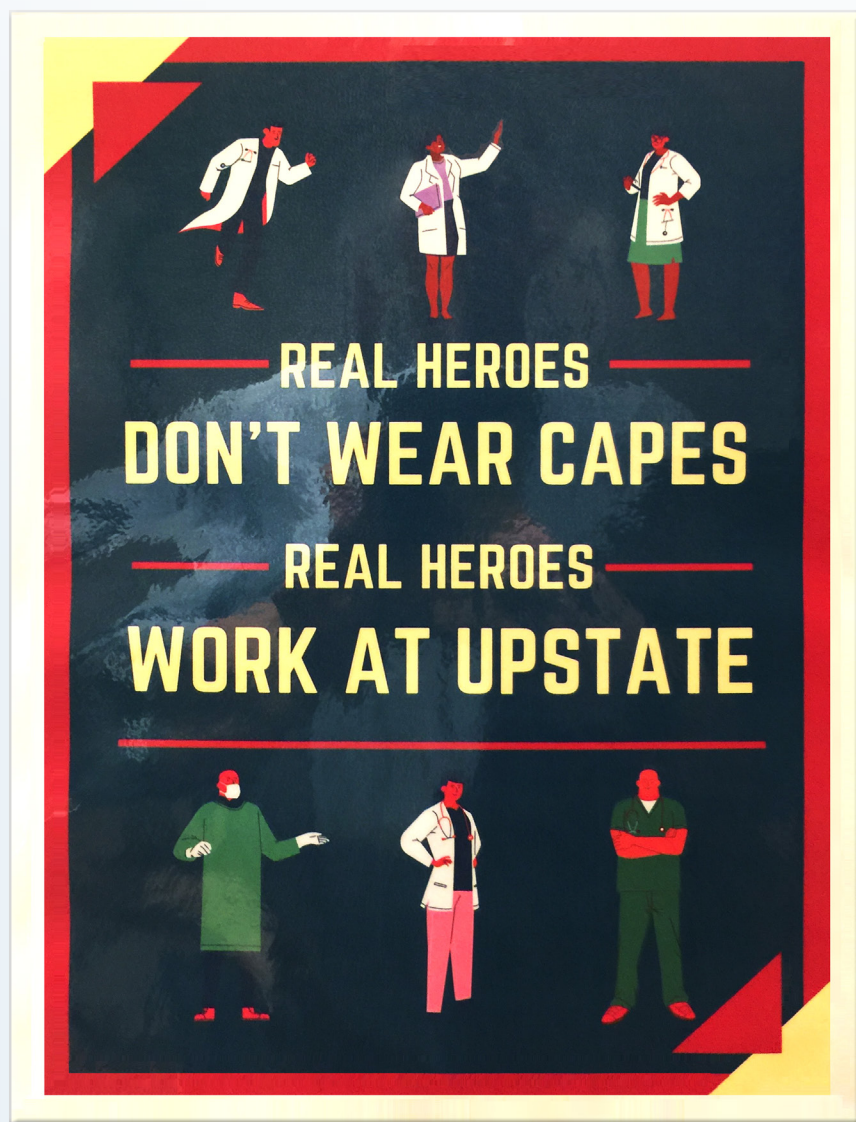
Matthew D. Mason, MD, Assistant Professor of Urology and Pediatrics

Anthony J. Tracey, MD, MPH, Assistant Professor of Urology and Pediatrics

Jeffrey A. Villanueva, MD, Assistant Professor of Urology and Pediatrics

Clinical Overview

The Division of Pediatric Urology providers utilize the most recent diagnostic and therapeutic technology, including minimally invasive surgeries for quicker recoveries. A strong focus on family centered care is an important element in practice. As a member of Upstate's Urology Team, the pediatric urologists have academic and clinical appointments with involvement in research projects, which promotes a high level of clinical knowledge and skill.



Throughout Upstate Medical University and Central New York, people have found ways to support those who work on the front lines in the battle against the coronavirus

This poster is an inspirational message posted by child-life specialists.

Affiliated Faculty

The clinical and educational missions of the Department of Pediatrics are enhanced by specialty groups in affiliated institutions or private practice. These pediatricians have academic appointments in the department and are fully integrated into our activities.

Pediatric Cardiology Associates of CNY

Faculty

Matthew J. Egan, MD, Clinical Assistant Professor of Pediatrics, Managing Partner as of January, 2022

Nader H. Atallah-Yunes, MD, Clinical Associate Professor of Pediatrics

Craig J. Byrum, MD, Clinical Professor of Pediatrics and Medicine

Christopher Prendergast, MD, Clinical Assistant Professor of Pediatrics

Frank C. Smith, MD, Clinical Professor of Pediatrics, Managing Partner through January, 2022

Lauren Tague, MD, Clinical Assistant Professor of Pediatrics

Clinical Overview

The Division of Pediatric Cardiology provides the full spectrum of non-invasive and interventional diagnostic and therapeutic services, including hemodynamic and interventional cardiac catheterization, for children and adults with congenital heart disease without age limit. This activity occurs in the neonatal intensive care unit and cardiac catheterization lab at Crouse Hospital, as well as in the inpatient and critical care units at University Hospital. The group has a busy fetal echocardiography practice providing both outpatient and inpatient services while working with the regional perinatal program. They also provide specialized hyperlipidemia management for the region. This team staffs a number of regional satellite clinics, including an arrhythmia clinic in Albany, and provides pediatric cardiology support to numerous hospitals in the referral region. They operate as part of a regional consortium with the pediatric cardiology and pediatric cardiovascular surgery groups at the University of Rochester and at Oishei Children's Hospital of Buffalo, including Dr. Glenn Leonard from pediatric interventional cardiology.

The Division provides popular clinical rotations that attract several Pediatric trainees annually.



Since 1953, the Division of Pediatric Cardiology has provided comprehensive cardiac care for all infants, children and adolescents with heart disease who live in the 15 county referral area of Central and Northern New York. Over many years our services have expanded to include fetal cardiology and the ongoing care of the ever-increasing number of patients with congenital heart disease who have reached adulthood. The Division is also the primary educational site for Upstate Medical University medical students, pediatric interns and residents.

Neonatology: Crouse Hospital

Faculty

Steven Gross, MD, Clinical Professor of Pediatrics, Director Newborn Medicine

Ellen Bifano, MD, Clinical Professor of Pediatrics

Susana Arriagada, MD, Clinical Associate Professor of Pediatrics

Bonnie Marr, MD, Clinical Assistant Professor of Pediatrics

Beverly Roy, MD, Clinical Assistant Professor of Pediatrics

Boura'a Bou Aram, MD, Clinical Assistant Professor of Pediatrics

Melissa Nelson, MD, Clinical Assistant Professor of Pediatrics

Swati Murthy, MD, Clinical Assistant Professor of Pediatrics

Clinical Overview

Eight board certified neonatologists direct care in the 57 bed Walter R.G. Baker Neonatal Intensive Care Unit (NICU) at Crouse Hospital. This unit serves as the CNY Regional Perinatal Center (RPC) providing quaternary care for a 16 county region in Central New York. The neonatologists head a team of dedicated mid-levels (8 NNPs and 5 PAs), NICU nurses, respiratory therapists, and occupational therapists. Surgical and cardiac patients are co-managed with these specialists. The NICU has access to a full complement of pediatric sub-specialists.

Under the leadership of **Dr. Boura'a Bou Aram**, the division is also responsible for the management of the Regional Neonatal Transport System. We provide physicians, mid-levels, specialized nurses, and respiratory therapists to stabilize and transport critically ill neonates for all of our 16 referral hospitals.

The neonatologists also care for approximately 1500 infants annually in the normal newborn nursery. We provide policy and education as well as direct patient care for pediatricians attending the well-baby nurseries.

Dr. Swati Murthy is the director of the Neonatal Follow-up Program. This is a multi-disciplinary clinic that provides comprehensive neurodevelopmental follow up to high risk NICU graduates. We evaluate approximately 300 extremely low birth weight, cardiac, surgical, and other graduates annually.

The Division of Neonatology is responsible for universal hearing screening in hospital and outpatient follow-up for infants whose fail screening to ensure all babies delivered at Crouse Hospital are identified with hearing loss early and are referred for optimal outcome.

Educational Highlights

The Division of Neonatology participates in the education of pediatric residents for the Department of Pediatrics (**Drs. Bou Aram** and **Melissa Nelson** are part of the residency committee) as well as the Department of OB/GYN. We also provide education to neonatal nurse practitioners and physician assistants from numerous programs. Dr. Nelson has developed and oversees the Neonatology Acting Internship Course for SUNY medical students. Dr. Nelson co-teaches a medical ethics course for our first-year medical students.

Dr. Susana Arriagada, co-director of Perinatal Outreach, along with our maternal fetal medicine colleagues, visit each of our referral hospitals yearly, providing education to the physicians and nurses at their sites. We also host a yearly symposium attended by nurses, physicians, and others from the region. Our symposium was established in 1973 and is the longest continuously running prenatal conference in the U.S.

Research Highlights

The neonatologists are actively involved in clinical research. We were the sole RPC funded to establish and implement the NY State data base used throughout the state of New York. We were one of 8 RPCs funded by NY State to establish the universal Hearing Screening Program for NY State. This program is now used throughout all birthing hospitals in New York. We participate in the Vermont Oxford Network and have utilized the data to institute QI initiatives such as intraventricular hemorrhage prevention bundle.

The senior neonatologists (**Drs. Steven Gross** and **Ellen Bifano**) are members of the Society of Pediatric Research and have chaired sessions at the annual PAS meetings. They both regularly review for multiple journals including the New England Journal of Medicine, Pediatrics, and Journal of Pediatrics. Research interests in the division center around infant nutrition, management of chronic lung disease, and developmental follow-up. Recent peer review publications for the division are cited below:

Murthy S, Parker PR, and Gross SJ. Low rate of necrotizing enterocolitis in extremely low birth weight infants using a hospital based preterm milk bank. *J. Perinatol* 39:108-14, 2019

Marr BL, Mettelman B, Bode MM and Gross SJ. Randomized trial of 42 day vs 9 day courses of dexamethasone for the treatment of evolving bronchiopulmonary dysplasia (BPD) in extremely preterm infants. *J Pediatr* 211:20-6, 2019

Nelson MU, Shaw J, Gross SJ. Randomized Placebo-Controlled Trial of Topical Mupirocin to Reduce Staphylococcus aureus Colonization in Infants in the Neonatal Intensive Care Unit. *J Pediatr* 2021 Sep; 236:70-77.



Awards, Recognition, and Honors

Olamide Ajagbe, MD

Alpha Omega Alpha Gamma Chapter Excellence in Teaching Awards (SUNY Upstate 4th year medical students), 2020

Upstate College of Medicine's quarterly "Exceptional Teacher Initiative" award for Q1 2020. This award is based on students' survey responses, asking what teachers did that resulted in an exceptional educational experience and how it changed them.

Ann S. Botash, MD

Syracuse.com did a March, 2020 feature article on Dr. Botash entitled, "You want leaders who will mentor and listen". See the article online: <https://www.syracuse.com/news/2020/03/dr-ann-botash-you-want-leaders-who-will-mentor-and-listen.html>

Jan Bach, MD

Upstate Gold Standard Award, 2020

Patient Experience Award Outstanding Performer, top 1%, 2020

Steven Blatt, MD

Upstate Gold Standard Award, 2021

Craig John Byrum, MD

SUNY Upstate President's Award for Voluntary Faculty, 2021.

Amy Caruso Brown, MD, MSc, MSCS

Upstate President's Award for Advancement of Diversity, Equity and Inclusion, 2020

Named to the Academy of Upstate Educators, 2020

Melanie Comito, MD

Patient Experience Award Outstanding Performance, top 1%, 2019

Gregory P. Conners, MD, MPH, MBA

Upstate COVID Hero, 2021

Melanie Comito, MD

Patient Experience Award Outstanding Performance, top 1%, 2019

Andrew Craig, PhD

Division 25 of the American Psychological Association, 2020

Andrea Dvorak, MD

Elected to the Alpha Omega Alpha Honor Society, 2021

Robert A. Dracker, MD, MHA, MBA

Upstate President's Award for Distinguished Service, 2020

Jennifer Nead, MD

AAP Special Achievement Award for Distinguished Service and Dedication to the Mission and Goals of the Academy for work in Establishing a Chapter-Wide Pediatric Hospitalist Committee, 2020

Jenica O'Malley, MD

Upstate Gold Standard Award, 2021

Andrew Osten, MD

Upstate COVID Hero, 2021

Jody Sima, MD

Patient Experience Award Outstanding Performance, top 1%, 2019

Jana Shaw, MD, MPH, MS

Upstate Gold Standard Award, 2021

Pediatric Faculty Award. Awarded by pediatric residents to the member of the pediatric faculty who has been most influential in their education and growth, 2020

Scott Schurman, MD

Upstate Gold Standard Award, 2020

Upstate President's Award for Excellence in Faculty Service, 2021

Susan Stred, MD

"Excellence in Teaching Award" for Foundations of Reasoning in Medicine course, 2020

Karen Teelin, MD

Doctor's Day Award, 2021

Stuart Trust, DO

"Excellence in Teaching Award" for Foundations of Reasoning in Medicine course, 2020

Margaret A. Turk, MD

Chambers Family Lifespan Lectureship Award, from the American Association for Cerebral Palsy & Developmental Medicine, 2021

Appointed advisor on thea "Dream Team" for the National Council on Disability, since 2021.

2021
Upstate Gold Standard
Award Winner

Steven D. Blatt, MD
Professor of Pediatrics

Nominated and presented by:

Gregory P. Conners, MD, MPH, MBA,
FAAP, FACEP

Stanley A. August Professor and Chair of
Pediatrics
Executive Director, Upstate Golisano
Children's Hospital



Memberships in Honorary Societies

American Pediatric Society

Ann S. Botash, MD, Active Member

Gregory P. Conners, MD, MPH, MBA, Active Member

Joseph B. Domachowske, MD, Active Member

Leonard B. Weiner, MD, Active Member

Thomas R. Welch, MD, Active Member

Society for Pediatric Research

Ellen Bifano, MD, Active Member

Ann S. Botash, MD, Senior Member

Amy Caruso Brown, MD, MD, MSc, MSCS, Active Member

Joseph B. Domachowske, MD, Active Member

Steven Gross, MD, Active Member

Henry Roane, PhD, Active Member

Thomas R. Welch, MD, Emeritus Member

SUNY Distinguished Professors

Ann S. Botash, MD, SUNY Distinguished Teaching Professor

Leonard B. Weiner, MD, SUNY Distinguished Service Professor

Endowed Chairs

Melanie Comito, MD, Paige Yeomans Arnold Endowed Professor in Pediatric Oncology

Gregory P. Conners, MD, MPH, MBA, Stanley A. Arnold Professor of Pediatrics

Nienke Dosa, MD, MPH, Upstate Foundation Professor of Child Health Policy

Henry S. Roane, PhD, The Gregory S. Liptak Professor of Child Development



In celebration of the 25th anniversary of the first Paige's Butterfly Run, a \$1.5 million endowed professorship was established at the Upstate Foundation primarily with event proceeds, and Melanie Comito, MD, was appointed the Paige Yeomans Arnold Endowed Professor in Pediatric Oncology.

Editorial and Professional Society Leadership

Gregory P. Conners, MD, MPH, MBA

Editorial Board, Pediatric Emergency Care

Associate Editor / Decision Editor, Internal and Emergency Medicine

Chair, American Academy of Pediatrics Committee on Pediatric Emergency Medicine

Winter Berry, DO

President of American Academy of Pediatrics New York Chapter 1

Steven Blatt, MD

Co-President, Pediatric Society of Central New York

Nicole DeRosa, PsyD

Section Editor, Journal of Behavioral Education

Henry S. Roane, PhD

Board of Editors, Journal of Pediatrics

Editor-in-Chief, Behavioral Development Bulletin

Associate Editor, Journal of Developmental and Physical Disabilities

Review Panel Membership, National Institutes of Health – Child Psychopathology and Developmental Disabilities Study Section,

Editor-in-Chief, Behavioral Development Bulletin

Associate Editor, Journal of Developmental and Physical Disabilities

Board of Directors, Association of Professional Behavior Analysts

Thomas R. Welch, MD

Associate Editor, Journal of Pediatrics

The journal Contemporary Pediatrics named Upstate pediatrician Winter Berry, DO, as a “pediatric change maker,” in honor of her work starting a diaper bank for families in need. Berry discusses how the diaper bank began, what it has grown into and the impact it can have on the lives of children in Central New York.

The award she won is given annually to pediatricians who exemplify the “tireless advocacy for children” of the journal’s founder, the late Frank Oski, MD, who was chairman of pediatrics at Upstate for several years.



Publications

Kurra S, Cahill PJ, **Albanese SA**, Betz RR, Toole T, **Lavelle WF**. Evaluation of shoulder balance in early onset scoliosis after definitive fusion and comparison with adolescent idiopathic scoliosis shoulder balance. *Spine Deformity*. 2022 Jan;10(1):183-188. Epub 2021 Aug 4.

Jan S, Anilkumar AC. Atypical brain MRI findings in a child with delayed diagnosis of Anti-N-Methyl-D-Aspartate receptor encephalitis. *Cureus*. 2021 Sep 19;13(9):e18103.

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Anilkumar AC, Reed Shenk ME. Pediatric syncope: etiological predictors and utility of diagnostic testing. *Journal of the International Child Neurology Association*. 1(1), Dec. 2020;154.

Ghonim HT, **Anilkumar AC**. Prediction of EEG seizures in critically ill children. *Pediatric Neurology Briefs*. 2020 Dec 18;34:23.

Murugesan BG, Jafroodifar A, **Anilkumar AC**, Leontieva L. Differential diagnosis of Landau-Kleffner syndrome versus post encephalitis syndrome in a 13-year-old boy with autism spectrum disorder. *Cureus*. 2020 Jul 25;12(7):e9385.

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Luo S, **Botash AS**. Testing a mobile app for child abuse treatment: A mixed methods study. *International Journal of Nursing Science*. 2020 Jun 23;7(3):320-329.

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Suryadevara M, Bonville CA, Cibula DA, **Domachowske JB**. Multi-component cancer prevention awareness program to improve adolescent HPV vaccine uptake. *Human Vaccines & Immunotherapeutics*. 2021;17(4):1052-1058.

Suryadevara M, Domachowske JB. Epidemiology and seasonality of childhood respiratory syncytial virus infections in the tropics. *Viruses*. 2021;13(4):696.

Kuhn V, Carpenter J, Zurakowski D, Reitz J, **Tague L**, Donofrio M, Murnick J, Axt-Flidner R, Limperopoulos C, Yerebakan C. Determinants of neurological outcomes in neonates with congenital heart disease following heart surgery. *Pediatric Research*. 2021;89:1283-1290.

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Teelin KL, Shubkin CD, **Caruso Brown AE**. Conscientious objection to providing gender health care in pediatric training: Balancing the vulnerability of transgender youth and the vulnerability of pediatric residents. *The Journal of Pediatrics*. 2021;240:272-279.

Kandavel P, Eder SJ, Adler J, Improve CareNow Network Pediatric IBD Learning Health System (includes **Wali P**). Reduced systemic corticosteroid use among pediatric patients with inflammatory bowel disease in a large learning health system. *Journal of Pediatric Gastroenterology and Nutrition*. 2021;73(3):345-351.

Wasik H, Chadha V, Galbiati S, Warady B, Atkinson M. Dialysis outcomes for children with lupus nephritis compared to children with other forms of nephritis: A retrospective cohort study. *American Journal of Kidney Diseases*. 2021;28:S0272-6386(21)00825-8.

Ibanez VF, Kirkwood CA, **Zeleny JR**, Peterson KM, Piazza CC. A pilot study on increasing intake and sucking for infants receiving supplemental feedings. *Behavioral Development*. 2020; 25(2):88-97.

Peterson KM, Ibanez VF, Volkert VM, **Zeleny JR**, Engler CW, Piazza CC. Using telehealth to provide outpatient follow-up to children with avoidant/restrictive food intake disorder. *Journal of Applied Behavior Analysis*. 2020; 9999:1-19.

Scholarly Presentations

Akhouri R, Duron S, Murphy J, Andrade J, Wratney AT. Pediatric Rapid Response Team and Outcomes after Establishing Roles and Responsibilities. Oral Platform Presentation. Beyond the Doctorate Day, Upstate Medical University Research Forum, March 2021.

Ashraf I, Botash A, Pekarsky A, Teelin K, “Characteristics of Abuse Among Transgender Youth,” Platform Presentation, Ray Helfer Society National Meeting, Tucson AZ, March 2021

Berry W. Addressing Diaper Need through Pediatric Care Partnership. National Diaper Bank Network U.S. Conference on Poverty and Basic Needs, October 22nd 2021, virtual conference.

Blatt SD. Children in Foster Care: What WIC Providers Need to Know. CAI Global for NYS WIC Training Center. January 14, 2021. Presented Virtually Due to COVID-19.

Blatt SD, Jones K, Greenwald N. High-Quality Parenting Time and Reasonable Efforts in a Pandemic. New York Association of Treatment Court Professionals Annual Meeting. March 4, 2021. Presented Virtually Due to COVID-19.

Palusci V, **Botash AS.** 2021 AVA (Academy on Violence and Abuse) Global Health Summit; Invited Scientific Presenter, long presentation: Race and Bias in Child Abuse Diagnosis and Reporting; October 22, 2021.

Palusci V, **Botash AS.** APSAC (American Professional Society on the Abuse of Children), 28th Annual Colloquium—Promoting Racial Diversity, Equity, and Inclusion Across Disciplines and Organizations Addressing Child Maltreatment. Race and Bias in Child Abuse Medical Diagnosis and Reporting. July 1, 2021.

Botash AS, Palusci V. Helfer Society Annual Meeting; Race and Bias in Child Abuse Medical Diagnosis and Reporting. April 14, 2021.

Botash A, Peltier C, Connors G, Nelsen E, O’Toole J. Writing effective letters of support for colleagues: specifics, subtexts, and stereotypes. Workshop, 2020 Pediatric Academic Societies Annual Meeting accepted, but meeting canceled due to COVID-19 pandemic.

Ashraf I, **Botash A, Pekarsky A, Teelin K.** Characteristics of abuse among transgender youth. Platform Presentation, Ray Helfer Society National Meeting, Tucson AZ, 2021.

Hanson J, **Botash A,** Christy C, DeWolfe C, Goldstein L, Jimenez S, Keeley M, Kind T, Lane L, Neeley M, Paul CR, Petershock J, Phillipi C, Ryan M, Tenney-Soeiro R, Treitz M, Tewksbury L. Pediatric faculty decision-making about supervision for core EPAs. COMSEP Annual Meeting Platform Presentation March 11, 2020. Canceled due to COVID 19.

Hanson J, **Botash A,** Christy C, DeWolfe C, Goldstein L, Jimenez S, Keeley M, Kind T, Lane L, Neeley M, Paul CR, Petershock J, Phillipi C, Ryan M, Tenney-Soeiro R, Treitz M, Tewksbury L. Pediatric faculty decision-making about supervision for core EPAs, Poster presentation; Pediatric Academic Societies (PAS) 2020 Meeting, May 2-5, 2020, in Philadelphia, PA. Canceled due to COVID 19.

Gaspard S, Race J, Stewart T, **Botash A.** Program evaluation: identifying hymen abnormalities and associated risks. Poster presentation; Pediatric Academic Societies (PAS) 2020 Meeting, May 4, 2020. Canceled due to COVID 19.

Sous W, Lupone C, Germain L, **Caruso Brown A, Cronkright P, Hobson E,** Connolly H, **Shaw A.** Global Health in Primary Care: A clinical education intervention addressing resident perceptions of refugee care. Global Health Education Consortium. March 11, 2021.

Cherrick I. How palliative care affects outcomes of patients with Trisomy 13/18. Accepted workshop presentation. International perinatal palliative care (PLIDA) 2020 meeting. Meeting postponed to October 2022.

Craig AR. Resurgence of drug seeking: A brief introduction. Paper presented at the 15th annual meeting of the Winter Conference on Learning and Behavior, Logan, UT. February 2020.

Craig AR. Experimental analyses of resurgence and their implications for treatment. Invited address presented at the annual meeting of the American Psychological Association, virtual conference. August 2020.

Craig AR. Experimental analyses of resurgence and their implications for practice. Poster presented in the NIAAA/NIDA Early Career Investigator Poster Session at the 2020 meeting of the American Psychological Association, virtual conference. August 2020.

Craig AR. Modeling the effects of outpatient context changes during assessments of operant renewal. Invited address presented at the 23rd annual meeting of the Maryland Association for Behavior Analysis, virtual conference. December 2020.

Craig AR. Resurgence or: How I Learned to Stop Worrying about Relapse and Start Planning for It. Invited webinar presented for the Manitoba Association for Behavior Analysis, virtual conference. March 2021

Bonville CA, Domachowske JB, Suryadevara M. Quality improvement education initiative increases adolescent HPV vaccination rates. Poster accepted to 33rd International papillomavirus conference IPVC March 2020; Barcelona, Spain. (cancelled due to COVID-19)

Dosa NP. Spina Bifida Care During Covid Pandemic, invited panelist, Annual Meeting of National Spina Bifida Patient Registry Clinical Care Network, Centers for Disease Control, October 23, 2020.

Dosa NP. Annual Fit-In "Conference" during COVID Fit-In 8: Family Fun Series with Adaptive Design and David's Refuge monthly DIY sensory projects via Facebook Live, 2020.

Dvorak A. The Changing Landscape of Hemophilia. Pediatrics Grand Rounds, Upstate Medical University, 2021.

Gupta S. Introduction to Fetal MRI. Radiology Grand Rounds, Upstate Medical University, 2021.

Hobart T, Blatt S, Michel S, Mak H. Blood Lead Screening at Upstate Pediatric and Adolescent Center. Poster accepted for PAS 2020 meeting, which was canceled due to the coronavirus pandemic.

Stroughton K, **Lebel RR, Brescia N.** POLG1 Heterozygous De Novo Pathogenic Variant Presenting with Severe Status Epilepticus with Aphasia, Irritability, Hemiparesis and Movement Disorder due to HHV-6 Encephalitis. Poster presentation at American Epilepsy Society, 2020 annual meeting.

Kangarlu J, **Byler M, Stein CK, Plaisted L, Sperber DE, Lebel RR.** Adverse developmental phenotype associated with compound copy number variants derived from both parents. Poster session, American Society of Human Genetics 80th annual meetings.

Cannon DK, **Byler M, Braddock B, Lebel RR** (2020) Mowat-Wilson syndrome: toddler with novel mutation in ZEB2 gene and lingua plicata. Poster session, American Society of Human Genetics 80th annual meetings, 2020.

Myers S, **Braddock BR, Tatum SA, Tovar-Spinoza ZS, Merriam SW, Lebel RR.** Reclassification of a novel mutation in SPECC1L associated with Teebi hypertelorism syndrome. Poster session, American Society of Human Genetics 80th annual meetings, 2021.

Adlakha V, Akhouri R, Gupta S, Andrade J. A healthy toddler with refusal to walk. Presented at the Eastern Society for Pediatric Research, March 10, 2021.

Adlakha V, Karahalios D, Johnson R, Paulsen (Lodge) E. An emerging cause of fever and wrist pain in a toddler. Beyond Doctorate Research Day. 2021.

Adlakha V, Johnson R, Karahalios D, Paulsen E. An emerging cause of fever and wrist pain in a toddler. Presented at the Eastern Society for Pediatric Research, March 10, 2021.

Nelsen E, Allison D, Halaby C, Kansagra K, Mangold K, Orlov N, Patel L, Chasnovitz R, Sieczkowski L, Panchana S. Put on your own oxygen mask first: promoting program director resilience. Enhanced Learning Session presented at Association of Pediatric Program Directors Spring Meeting, San Diego, CA. Meeting canceled secondary to Coronavirus pandemic. March 31, 2020.

Nelsen E, Mendoza J, House S, Tseng A, Katz C, Zipken R, **Schafer M,** Bavishi S, Liu D, Iwamoto L. Putting the Quality into your residency quality improvement curriculum: approach to curricular design, evaluation, and sustainability. Workshop presented at Pediatric Academic Societies annual meeting, Philadelphia, PA. Meeting canceled secondary to Coronavirus pandemic. May 4, 2020.

Kandeeban A, Gopalakrishnan V, Nelsen EK. Increasing flu vaccinations in vaccine hesitant families using a standardized educational approach. Poster presented at Eastern Society for Pediatric Research Spring Meeting (held virtually), March 10, 2021.

Majeski J. The role of pediatric psychology in pediatric palliative care. Pediatrics Core Lecture Series, CompassionNet, Rochester, NY, 2021.

Majeski J, Williamson D. Therapeutic communication and assessment and management of delirium in pediatric patients. Pediatric Grand Rounds, SUNY Upstate Medical University Hospital, Syracuse, NY, 2021.

Majeski J. The role of pediatric psychology in pediatric palliative care. Child Psychiatry Grand Rounds, SUNY Upstate Medical University Hospital, Syracuse, NY, 2021.

Monteleone P, Stanger J, Gupta S, Kobayashi K. Select topics in childhood vascular anomalies: a team approach. Pediatrics Grand Rounds, Upstate Medical University, 2021.

Nelsen E, Duncan J, Kapoor R. Platform session moderator for Top of Mind: Strategies for Maintaining Mental Health and Mitigating Burnout. Association of Pediatric Program Directors Spring Meeting, workshop held virtually. March 24, 2021.

Nelsen E, Allison D, Kansagra K, Mangold K, Orlov N, Patel L, Chasnovitz R, Sieczkowski L, Panchana S. Put on your own oxygen mask first: promoting program director resilience. Enhanced Learning Session. Association of Pediatric Program Directors Spring Meeting, workshop held virtually. March 26, 2021.

Ellis S, Batool S, **Nelsen EK.** Vitals are Vital! Poster presented at Association of Pediatric Program Directors Spring Meeting, San Diego, CA. 2021 Meeting canceled secondary to Coronavirus pandemic.

Nimeh J, Pinnamaneni M, Reinhardt K, Palestro LH, **Hobart TR.** Targeting Asthma Triggers (T.A.T.): A multidisciplinary and multi-organization collaboration to improve asthma symptoms in an urban pediatric population. Accepted to 2021 meeting of the Pediatric Academic Societies as an oral abstract presentation.

Osten A. Acute COVID-19 Pathways and Review of Literature on COVID-19 Therapeutics. Upstate NY AAP Quarterly Webinar, 2021.

Osten A. MIS-C Clinical Pathways. Upstate NY AAP Quarterly Webinar, 2021.

Pekarsky AR, Ross HL. Mimics of Physical Abuse: Cutaneous Polyarteritis Nodosa. Visual Diagnosis Session at the International Helper Society Annual Meeting, virtual presentation on April 13, 2021.

Coyne LP, El Dokla A, **Pellegrino JE, Sakonju A.** Congenital myopathy with fiber-type disproportion in a patient with a de novo heterozygous p.Pro2195Leu mutation in RYR1. 49th Annual Child Neurology Society Meeting October 12-23, 2020.

Jean Meneses, Rohan Akhouri, Christopher Prendergast. Novel Treatment with Ivabridine for Management of Treatment Resistant Congenital Junctional Ectopic Tachycardia. Beyond Doctorate Research Day, Upstate Medical University 2021.

Lammert DB, **Rothman SM, Pellegrino JE,** Petropoulou K, **Sakonju A.** Cerebral folate deficiency in two siblings with compound heterozygous variants of the SLC19A1 reduced folate carrier. 49th Annual Child Neurology Society Meeting October 12-23, 2020.

Patel R, Gershon E, **Schafer M, Ervoes JP, Oaks H, Andrade J.** Improving Bronchiolitis Management with a Care Path. American Pediatric Program Directors Meeting, March 28, 2019, New Orleans LA.

Schafer M, Paul R. The Impact of a National Multicenter QI Collaborative on Pediatric Sepsis Care. Pediatric Academic Society Meeting, Philadelphia PA, May 3, 2020. Cancelled for COVID

Schafer M, Wratney A, Nelsen E. Linking Morbidity and Mortality Conference to Quality Improvement/Patient Safety: a high yield exercise in resident education. Poster presented at Pediatric Academic Societies virtual meeting, May 1, 2021.

Schafer M. Improving Pediatric Sepsis Outcomes. December 2020 Virtual Workshop General Care Setting breakout session facilitator with Tracey Lowerre, Dec 10, 2020.

Schafer M. Characteristics and Outcomes of Sepsis in Pediatric General Care Settings. Platform presentation at Pediatric Academic Society Virtual Meeting May 1-4, 2021.

Schafer M. Linking Morbidity and Mortality Conference to Quality Improvement/Patient Safety: a high yield exercise in resident education. Poster presented at Pediatric Academic Society Virtual Meeting May 1-4, 2021.

Sgarlat CD. Family Medicine Lecture Series: Integrative Transgender Medicine Aril 13, 2021

Harris MA, **Shaw AV,** Mohamed L, Colvin KF, Manganello JA. Development of a Refugee Health Literacy Assessment Tool. 10th Annual North American Refugee Health Conference. Virtual. September 17, 2020.

Harris MA, **Shaw AV.** Health Navigators support COVID-19 surveillance and access to care for refugees & immigrants in Syracuse, New York: A pilot study. American Public Health Association. October 25, 2020.

Karahalios D, Cho N, Hall W, Shaw A, Wasik H. Trends in hypertension recognition in a pediatric primary care clinic: initial data from a quality improvement initiative. Poster presented at SUNY Upstate Medical University Beyond the Doctorate Research Day. Virtual. March 2021.

Shaw J. HPV SBHC. Public Health Partnership Conference in Niagara Falls, NY April 30 - May 1, 2020.

Seserman M, **Shaw J.** Using a coalition framework to fund and implement innovative strategies to increase HPV vaccination rates in New York State. Abstract Accepted. Public Health Partnership Conference in Niagara Falls, NY April 30 - May 1, 2020. Meeting cancelled due to COVID-19 pandemic.

Nelson MU, Shaw J, Gross SJ. Randomized Controlled Trial of Mupirocin to Reduce Staphylococcus aureus (SA) Colonization in Infants in the Neonatal Intensive Care Unit (NICU). PAS 2020 Meeting. Accepted Poster presentation. May 2-5, 2020, in Philadelphia, PA. Meeting cancelled due to COVID-19 pandemic.

Shaw J, Blatt SD. Returning to School During COVID-19. Pediatric ECHO, Upstate Medical University. September 8, 2020.

Shaw J, Blatt SD. Returning to School After Concerns About COVID-19. Pediatric ECHO, Upstate Medical University. October 27, 2020.

Ramos LV, **Gopalakrishnan V**, **SanFilippo-Burchman M**, **Sen J**, **Mortelliti A**, **Soultan Z**. An Interdisciplinary Approach to Evaluating Infants with Laryngomalacia and a Comparison with the International Consensus. Poster Presentation American Thoracic Society annual meeting May, 2021.

Gopalakrishnan V, Ramos LV, **SanFilippo-Burchman M**, **Sen J**, **Mortelliti A**, **Soultan Z**. Indications for Supraglottoplasty in Management of Laryngomalacia: A Comparison Between Our Institutional Practice and the International Consensus. Poster Presentation American Thoracic Society annual meeting May, 2021

Sullivan WE, **Craig AR**, Browning KO, **Derosa NM**, Baxter EL, **Roane HS**. Mitigating ABC renewal: The role of context discrimination. Paper presented at the 15th annual meeting of the Winter Conference on Learning and Behavior, Logan, UT. February 2020.

Sullivan WE. Behavior Analysis Studies Program: SUNY Upstate Medical University. Presented at SUNY Oswego, Oswego, NY. March 2020.

Suryadevara M, Bonville CA, **Domachowske JB**. A cancer prevention awareness platform that improves adolescent HPV vaccination rates. Oral presentation at 33rd International papillomavirus conference IPVC March 2020; Barcelona, Spain. (cancelled due to COVID-19).

Sabbagh SE, Neely J, ..., **Sura A**, et al. Risk Factors Associated with Pneumocystis Jirovecii Pneumonia in Juvenile Myositis in North America. Poster at American College of Rheumatology Annual Meeting, Nov 9, 2020.

Teelin K. Adolescent PrEP and PEP, AAP NY 1 Chapter Meeting, Syracuse, NY, March 2020. Cancelled due to COVID-19 pandemic.

Piotrowski E, **Teelin KL**. Quality Improvement in Chlamydia Screening: The Role of Universal Screening in Adolescents. Student Research Day, SUNY Upstate, Syracuse NY, April 2020.

Dumont T, Karjane N, **Teelin K**. Teaching Pediatric and Adolescent Gynecology, conference workshop, North American Society for Pediatric and Adolescent Gynecology, spring 2020. Cancelled due to COVID-19 pandemic.

Teelin K. Eating Disorders in Adolescents: Pearls for the Pediatrician, Pediatric ECHO presentation, April 2021.

Teelin KL, "Challenging Cases in the Care of Transgender Youth," NYS Department of Health Clinical Education Initiative (CEI) Webinar, November 2021.

Teelin KL, "Health Disparities and LGBT+ Patients," The Rural and Underserved Services Track (TRUST) at Binghamton University, Binghamton, NY, Jan 31, 2021.

Wasik H, Chadha V, Galbiati S, Warady B, Atkinson M. Dialysis Outcomes in Lupus Nephritis Patients. Poster presented at Pediatric Academic Societies 2020 Meeting. Philadelphia, PA, May 2020.

Chadha V, **Wasik H**, Galbiati S, Atkinson M, Warady B. Transplant Outcomes in Children with Lupus Nephritis. Poster presented at American Society of Nephrology Kidney Week 2020 Reimagined. Virtual. October 2020.

Wasik H, Chadha V, Galbiati S, Warady B, Atkinson M. Dialysis Outcomes in Lupus Nephritis Patients. Oral presentation at Annual Dialysis Conference Best Abstracts Session. Virtual, March 2021.

Wasik H. Factors associated with high-cost hospitalizations related to hemodialysis catheter-associated blood stream infections in pediatric patients. Oral presentation SCOPE Workshop. Virtual, April 2021.

Anderson J, **Kandeepan A**, **Wratney A**, **Zuccaro J**. Abstract publication 463: Type B Lactic Acidosis Patient With Crohn's Disease and Thiamine Deficiency. *Critical Care Medicine*, 2020; 48(1):323.

Kandeepan A, **Wratney AT**. Catecholaminergic Polymorphic Ventricular Tachycardia in an 11-year old male. *SCCM 2021 Virtual Critical Care Congress Abstract #3564*.

Ramos L, **Byler M**, **Gupta S**, **Murthy S**, **Wratney A**, ..., **Saikonju A**. In-frame deletion in SPOP leads to Nabais Sa-de Vries Syndrome. *ACMG Conference 2021*.

Lenehan C, **Zuccaro J**. Urgent plasmapheresis for severe hypertriglyceridemia in a pediatric patient. Poster presented at SUNY Upstate Medical Center, 2021.





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