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INTRODUCTION FROM THE CHAIR

I am excited to be sharing with you our department academic report for 2015-2016. This report details the activities of our divisions in clinical care, education, and research. We have an additional annual report to the community, which focuses on the people and facilities of the Upstate Golisano Children’s Hospital, as well as some of our patients.

Since our last department report, we have continued to experience significant faculty growth, having welcomed 28 new pediatric or affiliated faculty. This growth has allowed us to expand capacity in most of our clinical programs, as well as undertake a number of new initiatives.

Our gastroenterology program, for example, has raised the bar for children with inflammatory bowel disease by becoming part of a national consortium, ImproveCareNow. We are the only such center in the state outside of New York City, and are approaching 200 children under care. This has brought a standardized approach to these very complicated children, while allowing us to benchmark our care to top national programs.

As another example, the cystic fibrosis program in our pulmonology division was selected by the Cystic Fibrosis Foundation for its Learning and Leadership Collaborative, a multicenter quality improvement consortium. This has helped to bring additional resources and expertise to the care of these children and their families.

Our education programs continue to prepare the next generation of pediatricians and pediatric specialists. We have recently begun to examine innovative ways in which we can provide more direct and relevant continuing education to the practitioners caring for children in our region. One of these will be Project ECHO, a program in coordination with the American Academy of Pediatrics which will allow real-time, teleconferenced, patient-centered education to providers.

The report also demonstrates the growth in our research programs, with 147 presentations at scientific meetings and 157 publications in peer-reviewed journals. Several of our investigators have received recognition, including a Fulbright Scholarship for Dr. William Kerr, the Murphy Family Professor of Children’s Cancer Research.

We always welcome and value your feedback. You can continue to keep up with our programs through our newsletter at: http://www.upstate.edu/gch/education/newsletters.php or through our website: http://www.upstate.edu/gch/.

Thomas R. Welch, MD
Stanley A. August Professor and Chair
Department of Pediatrics
Upstate Medical University
Medical Director
Upstate Golisano Children’s Hospital
DEPARTMENT LEADERSHIP

We have a group of vice chairs who have primary responsibilities for a variety of functions within the department. This group meets weekly and together acts as a deliberative body to set policy and direction. Each of these individuals is also empowered to make independent decisions within his or her area of responsibility. Although I am always available to speak with referring physicians regarding hospital or department issues, these individuals may also be contacted directly in regard to matters within their respective purviews.

Ann Botash, MD (botasha@upstate.edu) is Vice Chair for Educational Affairs, with ultimate responsibility for all aspects of education in the department: undergraduate, graduate, and continuing. The enormous growth in our education services is outlined in the education section of this report. Ann also serves the institution in several educational roles.

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.

In his Vice Chair role, Scott has ultimate responsibility for all inpatient and outpatient 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.

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.

In addition to responsibility for the department’s faculty promotion and tenure process, Len has overall responsibility for our research programs. We have made some steady strides in this area, as indicated by the individual division and section reports. A recent bequest to establish a Pediatric Research Institute will lead to further growth in this important area.

The leadership team is supported by Cherlynn Clarry (clarryc@upstate.edu), department office manager, Barbara Delaney (delaneyb@upstate.edu), assistant to the chair, and Leo Sawyer, business manager. Bonnie Miner, MS, RN, CNS acts as our patient safety officer and is important in coordinating our collaborative safety projects. James Peacock, MS, plays a very important role in the department as Education Program Administrator, especially with residents and medical students.
A few pertinent metrics provide a summary of our child health care activity during the period of this review. More detailed information is highlighted further within the clinical snapshot listed at the end of each individual division report.

<table>
<thead>
<tr>
<th>Measure</th>
<th>2015</th>
<th>2016</th>
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<tr>
<td>Inpatient discharges</td>
<td>3,965</td>
<td>3,887</td>
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<tr>
<td>Observation patients</td>
<td>739</td>
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<td>Average length of stay</td>
<td>3.99</td>
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<td>Pediatric ED visits</td>
<td>27,877</td>
<td>26,616</td>
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<td>Admissions from ED</td>
<td>1,791 (6.4%)</td>
<td>1,999 (7.5%)</td>
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<tr>
<td>Pediatric outpatient visits</td>
<td>67,962</td>
<td>76,988</td>
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<tr>
<td>Pediatric surgery procedures</td>
<td>5,806</td>
<td>6,123</td>
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</table>
PEDIATRIC CRITICAL CARE

FACULTY

Neal Seidberg, MD, Associate Professor of Pediatrics, Division Director1
Allison Fahy, MD, Assistant Professor of Pediatrics
I. Federico Fernandez, MD, Assistant Professor of Pediatrics
William Hannan, MD, Associate Professor of Pediatrics2
Robert Kanter, MD, Professor of Pediatrics Emeritus (retired 2014)
Robert Newmyer, MD, Assistant Professor of Pediatrics
Kevin Ragosta, DO, Associate Professor of Pediatrics Emeritus (retired 2015)
Ramesh Sachdeva, MD, PhD, Professor of Pediatrics3
Jennifer Zuccaro, MD, Assistant Professor of Pediatrics

CLINICAL OVERVIEW

The Division of Pediatric Critical Care provides comprehensive medical-surgical care for all critically ill children from a 17 county referral area. Patients are cared for in a 15 bed pediatric ICU (PICU) by a multidisciplinary team led by the intensivist. The team consists of dedicated PICU nursing, respiratory therapists, pharmacists, dietitians, and child life personnel. Surgical patients are co-managed with various surgical teams and include, among others, trauma, cardiothoracic, general surgery, neurosurgery, urology, otolaryngology and orthopedic patients. The PICU has access to a full complement of pediatric sub-specialists.

The faculty of the PICU provide technologically advanced care across the full range of ICU therapies. Available therapies include, but are not limited to, invasive and non-invasive ventilation, ECMO, renal-replacement therapy, invasive cardiovascular monitoring, and neurocritical monitoring.

The division is also responsible for the management of a regional transport system dedicated to bringing critically ill children (non-trauma) from referral hospitals to Upstate Golisano Children’s Hospital. The transport team utilizes specially trained nurses and respiratory therapists for this service. Our specialized pediatric transport team allows us to bring the resources and expertise of our Pediatric Intensive Care Unit (PICU) and Upstate Golisano Children’s Hospital to a critically ill child at another hospital.

EDUCATIONAL HIGHLIGHTS

The division provides a variety of educational programs. The division participates in the education of pediatric residents from the Department of Pediatrics. This activity begins with a yearly series of lectures to the residents and continues at the bedside during the 3 months that residents spend in the PICU during their residency. We have past pediatrics residents successfully training in fellowships for Pediatric Critical Care.

The division also provides training for residents from the Emergency Medicine Residency and fellows from the Pediatric Emergency Medicine Fellowship. Both spend time in the PICU as part of their education.

---

1 Dr. Seidberg also serves as Chief Medical Informatics Officer for Upstate Medical University
2 Dr. Hannan also serves as a member of the Division of Pediatric Rheumatology and Integrative Medicine
3 Dr. Sachdeva also serves as Senior Vice President of Strategic Affairs for Upstate Medical University
The division provides an advanced class for students at the Upstate Medical University School of Medicine. This “acting-internship” allows students to take on many of the responsibilities of pediatric residents. The course exposes the students to a broad range of illness and teaches a physiologically based, developmentally appropriate approach to caring for ill children. Additionally, Dr. Newmyer has been made co-director for the second-year block covering renal, reproductive and endocrinology systems.

The division also plays a role in educating nurses and services such as the respiratory therapy. We have begun a program using the simulation lab to provide advanced training to nurses and therapists that function as a part of our transport system. The division also oversees a mock code program to provide ongoing readiness training to residents and staff in the Children’s Hospital.

**DIVISION HIGHLIGHTS**

The Division of Pediatric Critical Care has expanded and now consists of 7 faculty members.

The division continues to look to provide up to date care at the highest levels. To continue this mission, recent initiatives have begun to improve renal-replacement therapy, update ultrasound capabilities and continue to improve the capabilities of our transport system.

The critical care transport team medical director is now Dr. Newmyer, who started with our division in July 2015 coming to us from Children’s Hospital of Pittsburgh. Through outreach to referring hospitals, new education initiatives for our team, new equipment, a new data collection and quality initiative, and ongoing work with area ground and air medical transport systems, Dr. Newmyer and the team hope to expand our capabilities to bring the resources of our PICU beyond our walls to those who need it.

The Department of Respiratory Therapy has named Dr. Fernandez the Medical Director for Pediatric Respiratory Therapy. Dr. Fernandez will work to enhance the education of pediatric respiratory therapists and will assist with the creation and implementation of new techniques as they become available.

Dr. Fahy has an additional expertise in quality improvement and has begun several initiatives both locally and as a part of national PICU quality programs.

**CLINICAL SNAPSHOT**

**Number of admissions**

2015: 680

2016: 682

**Types of patients**

The PICU admissions are equally divided between medical and surgical diagnoses.
EDUCATION PROGRAM IN GENERAL PEDIATRICS

FACULTY

Vice Chair for Educational Affairs
Ann S. Botash, MD, Professor of Pediatrics

Graduate Medical Education
Gloria Kennedy, MD, Assistant Professor of Pediatrics, Director of Residency Program
Elizabeth Nelsen, MD, Assistant Professor of Pediatrics, Associate Director of Residency
Olamide Ajagbe, MD, Assistant Professor of Pediatrics, Associate Director of Residency

Residency Committee, led by Dr. Kennedy, includes faculty, chief residents, and resident representatives from each year

Pediatric Residency Evaluations and Promotions (PREP) Advisor Committee, led by Dr. Nelson, includes representative faculty and chiefs

Undergraduate Medical Education
Ann S. Botash, MD, Professor of Pediatrics, Clerkship Director, Syracuse Campus
Leann Lesperance, MD, PhD, Clinical Assistant Professor, Clerkship Site Director, Binghamton Campus
Jennifer Nead, MD, Assistant Professor of Pediatrics, Assistant Clerkship Director
Gregory Scagnelli, MD, Associate Site Director, Binghamton Campus
Winter Berry, DO, Assistant Professor of Pediatrics, University Pediatric and Adolescent Center
Jaclyn Sisskind, MD, Assistant Professor of Pediatrics, Upstate Pediatrics Office Site

Administrative
James F. Peacock, MS, Education Program Administrator
Patricia Mondore, MA, Residency Program Coordinator
Carol Plumley, Clerkship Assistant, Syracuse Campus
Melissa Rowley, 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, faculty and staff.

Graduate Medical Education
For seventy 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 a full five-year accreditation from the ACGME with no citations.

**The residency curriculum:**

The curriculum enables residents to become competent in all areas of general pediatrics. In addition, we offer 4 Career Focused Pathways as choices for residents, allowing them to choose unique experiences for electives that will prepare each resident for their future careers. These pathways are chosen by the end of the intern year and include:

- **International/Underserved Pathway**
- **Primary Care Pathway**
- **Subspecialty/Fellowship Pathway**
- **Critical Care/Hospitalist Pathway**

Some highlights of the curriculum in general pediatrics include:

- **Seminars** – The core curriculum for residents offers an innovative approach to learning. The faculty translated the core curriculum to an on-line environment that is available to the residents anytime and anywhere. The material is contained within Blackboard and resident participation in the online curriculum is monitored. Residents participate in a case based series of seminars for a blended learning experience, including online and in-person. The sessions reinforce and complement the on-line lectures and offer a relevant approach to learning through cases. Residents complete quiz materials online that can be used for preparation for the board examination.

- **Primary care** – Primary care training is based at the University 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 and may choose the Primary Care Pathway to enhance this experience.

- **Community Health Center** – A 3 year funded grant through Doctor's Across New York to provide clinical learning experiences at the local community health center was completed in June 2016. Residents that have taken advantage of this experience have gone on to practice in underserved areas.

- **Critical Care** – The Upstate Golisano Children's Hospital PICU is the setting for training in Pediatric Critical Care Medicine. Residents provide direct patient care for the sickest children in Central New York, with a wide-range of acute conditions.

- **Emergency Medicine** – Residents are the front line for children up to 19 years of age who come with medical or surgical emergencies to the area's only Pediatric Emergency Department. More than 25,000 annual visits are seen, and supervised by board certified Pediatric Emergency Medicine faculty.

- **Developmental Pediatrics** – This rotation takes advantage of some of the outstanding community resources in child development, as well as those at our Center for Neurodevelopmental Pediatrics. 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 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. A great deal of the education of residents and medical students is provided by these inpatient specialists. The program utilizes I-PASS for handoffs and continues to monitor quality of communication.
Subspecialties – The curriculum provides comprehensive training in the pediatric subspecialties. Clinical instruction is available in all the major pediatric medical and surgical subspecialties. Residents are provided with elective time that allows them to create additional experiences in focused areas of the subspecialties. In the third year, residents are able to spend a clinical rotation away from the medical center. The Subspecialty/Fellowship Pathway provides a more in-depth approach to subspecialties based on resident (and their advisor) choices.

Systems Based Care – A program of learning advocacy, established in 1995 as the Community Oriented Advocacy Training program, was one of the first such advocacy training programs nationally. The curriculum includes experiences in systems based care which are embedded in 3 intern rotations as well as an intern-only conference series which provides education and experiences for a wide range of advocacy skills and community related topics.

Teaching Skills for Housestaff – This monthly seminar series has been offered for over 20 years and is designed to meet the needs of residents as teachers. The series addresses topics such as: 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.

Evidence Based Medicine/Journal Club – The housestaff present and participate in a series of conferences designed to analyze recent literature and demonstrate possible effects on practice. These workshops are held once each month and utilize a curriculum in evidence based medicine.

Global Health – Residents and students have the opportunity to participate in international health activities including Medical-Spanish immersion programs in Central America such as AMOS Health and Hope or the Enlace Project in Nicaragua and the Center for Global Health & Translational Science summer opportunities in Ecuador.

Research – Many of our residents participate in active research with faculty. Residents are encouraged to write cases for publication and many manuscripts reported throughout this document were authored or co-authored by our residents and students. Residents and students have an opportunity to pursue international research through the Center for Global Health & Translational Science.

Quality Improvement – All residents are required to complete a quality improvement project prior to graduation. All residents are also members of inpatient quality improvement teams. Most participate in the multidisciplinary Solutions for Patient Safety teams. There is a dedicated Quality Improvement conference series for residents throughout the year.

Resident Teaching Awards – Residents are honored by the department on an annual basis through student (clerkship) identification of exemplary resident teachers. These are awarded each year at the resident graduation ceremony. We have expanded our residency program for 2016-17 to include 15 residents per year (previously 13).

Undergraduate Medical Education

Our 5-week clerkship provides pediatric education to approximately 160 students every year. Students participate in inpatient (2.5 weeks) and out-patient (2.5 weeks) experiences. Students are assigned to the Syracuse or the Binghamton campus.

Medical students rotating through our pediatric clerkship are assigned to an outpatient program either on-site or in the community. At the Syracuse campus, they are also assigned to one of two teaching inpatient services. The hospitalists in our Inpatient Pediatrics Division oversee the inpatient curriculum.

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 patient care, teaching rounds, evidence based medicine conferences, adolescent conferences and case-based learning. Students provide a reflective narrative regarding professionalism and systems based practice issues that are reviewed by faculty
and the Chair and inform discussion. These narratives also form a basis for discovery of the hidden curriculum and cases for resident teaching skills and faculty development.

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

**Pediatric Growing Pains Seminars (Peds GPS)** is a series of workshops provided by the education faculty to support fourth year students planning a career in pediatrics.

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

**Selected Continuing Medical Education and Scholarly Products**

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 Dr. Ann Botash and provides 20 Part 2 MOC credits.

- **Pediatric Hematology/Oncology:** Provides bi-monthly sessions for “Tumor Board” with CME.

- **Evaluation Application:** Hi-Pass Student Evaluation Systems is an app for real-time feedback from preceptors to medical students, which is currently in Beta testing. Dr. Botash, author, creative copyright; Developer: AppHammer, Inc.

- **Peds Points:** This weblog was developed in 2016 to support Upstate’s pediatric clerkship preceptors as a source for medical education materials and suggestions. The blog offers, “shared wisdom from Upstate’s pediatric clerkship” through teaching tips, resources, news and announcements. Student feedback is featured regularly and the URL is blogs.upstate.edu/pedspoints.

**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. In the past five years, the percentage of residents pursuing academic fellowships has ranged between 20- 60%. These have included all specialties. Our residents have joined primary care practices in the Syracuse area as well as various communities in New York State, around the country and the world. Many have joined academic faculties directly upon completion of the residency. We have recruited between 1-3 chief residents each year.

Our pass rate for the American Board of Pediatrics Certifying Examination (2015-16) on the first attempt is 70-75%.

On the NBME subject exam in pediatrics, the total test equated percent correct score mean was 75.4 (SD= 9.0) for first time test takers. This is above the national mean for those taking a 5 week rotation; 75.2 (SD 8.6). Both Syracuse and Binghamton students scored on average within one standard deviation of the national mean for all content areas.

**RESIDENT RESEARCH**

Pediatric Residents have the opportunity to participate in research projects with faculty. In 2015 and 2016, four residents authored seven peer-reviewed publications. In 2015, eleven residents presented posters at national meetings or SUNY Upstate’s research events including Beyond the Doctorate Research Day. In 2016, fifteen residents presented posters at national meetings or SUNY Upstate’s research events including Beyond the Doctorate Research Day. A list of scientific presentations can be found at the end of the report, organized by division. Residents names are denoted with an asterisk*. 
**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.
PEDIATRIC EMERGENCY MEDICINE

FACULTY

Richard M. Cantor, MD, Professor of Emergency Medicine and Pediatrics Division Director
Leah Bennett, MD, Assistant Professor of Pediatrics and Emergency Medicine
Tyler Greenfield, DO, Assistant Professor of Pediatrics and Emergency Medicine
Erin Hanley, MD, Assistant Professor of Pediatrics and Emergency Medicine
Samantha Jones, MD, Assistant Professor of Pediatrics and Emergency Medicine
Alison McCrone, MD, Assistant Professor of Pediatrics and Emergency Medicine
Peter Sadowitz, MD, Associate Professor of Pediatrics and Emergency Medicine
Asalim Thabet, MD, Assistant Professor of Pediatrics and Emergency Medicine
Matthew Thornton, MD, Assistant Professor of Pediatrics and Emergency Medicine

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 any and all acute complaints affecting infants and children, including major and minor trauma, poisonings, burns, psychiatric illnesses, and major medical issues as well.

Specialists in Pediatric Emergency Medicine have completed fellowships in Pediatric Emergency Medicine with board certification under the auspice 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 services during our busiest hours.

In August 2016, we moved onto our newly designed Pediatric Emergency Department. It contains state-of-the-art Pediatric Emergency equipment, design, and environmental enhancements. Our capacity has increased dramatically (to 22 beds) as well as the size of our nursing component.

DIVISION HIGHLIGHTS

Our division is ever expanding, actively recruiting other specialists in pediatric emergency care. Our fellowship program is filled for the better part of the next 2 cycles, offering training to candidates who have completed either Pediatric or Emergency Medicine Residency Programs nationwide. We have recently been approved for four fellows by the ACGME.

Dr. Cantor continues to maintain a strong national presence in the field of Pediatric Emergency Medicine. In 2016, he was appointed to national committees on Pediatric Emergency Medicine, Public Relations, and Education by the American College of Emergency Physicians.

EDUCATIONAL HIGHLIGHTS

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 dedicated to the care of children in our region. This teaching day has been a tradition for 13 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 as well. We also maintain an active clinical training environment for these aforementioned specialty residents.

**RESEARCH HIGHLIGHTS**

All fellows, assisted by Pediatric Emergency faculty, are required to produce original research during their Fellowship. Current projects include “An Evidenced Based Review of the Use of Steroids in Various Pediatric Emergent Conditions” (Dr. Thabet), and “Pediatric Endocrine Emergencies” (Dr. Demartini).

**GRANTS AND CONTRACTS**

**Cantor R**


**CLINICAL SNAPSHOT**

<table>
<thead>
<tr>
<th>Total Pediatric ED Visits</th>
<th>2015: 27,877</th>
<th>2016: 26,616</th>
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<tbody>
<tr>
<td>Admission Rate</td>
<td>11%</td>
<td></td>
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<tr>
<td>Ambulances per day</td>
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<tr>
<td>Daily transfers</td>
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<tr>
<td>Percent of Upstate</td>
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<td>Hospital Admissions from the Peds ED</td>
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PEDIATRIC ENDOCRINOLOGY, DIABETES & METABOLISM

FACULTY

Robert Izquierdo, MD, Professor of Medicine and Pediatrics; Section Head; Associate Medical Director, Joslin Diabetes Center Affiliate; Medical Director, Thyroid Cancer Center

Aditi Khokhar, MD, Assistant Professor of Pediatrics

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

Angela Mojica Sanabria, MD, Assistant Professor of Pediatrics

Irene N. Sills, MD, Professor of Pediatrics Emeritus (retired 2015)

Susan E. Stred, MD, Professor of Pediatrics; Director, Pediatric Endocrine ECHO Program

CLINICAL OVERVIEW

The Section of Pediatric Endocrinology, Diabetes and Metabolism provides care for children and adolescents with the full spectrum of disorders of the endocrine system. Staff 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 nurse practitioners with a special interest in diabetes care, diabetes educators, including diabetes pump educators, dieticians, and an exercise physiologist. This multidisciplinary team provides care to children with type 1 and type 2 diabetes mellitus. On a consultative basis, we have support from adult and pediatric psychologists. 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 consultations on patients at risk for osteoporosis.

Dr. Sue Stred has a special interest in the endocrinologic care of cancer survivors. Although most children diagnosed with a malignancy during childhood now survive, 40-50% of those experience significant endocrine dysfunction as a result of their treatment.

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.

Drs. Mojica and Khokhar joined the division in the past year and have interest in general endocrinology and pediatric endocrine education.

EDUCATIONAL HIGHLIGHTS

The pediatric endocrinology faculty provide several lectures to the pediatric housestaff each year. In addition, pediatric residents and medical students rotate through our outpatient clinical practice.
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 24 counties we provide care for.

RESEARCH HIGHLIGHTS

Dr. Izquierdo’s research interests lie in type 1 and 2 diabetes mellitus, and thyroid nodular disease and cancer. Dr. Izquierdo was co-investigator of the TODAY study, a multicenter NIH-sponsored trial to determine the best treatment options in children and adolescents with type 2 diabetes mellitus. He has conducted research and published in areas of thyroid nodular disease and thyroid cancer.

GRANTS AND CONTRACTS

Izquierdo R


The T1D Exchange Type 1 Diabetes Network Ancillary Study: Residual C-Peptide in Patients with Type 1 Diabetes. Co-PI. 2015-2016.

Sanabria AM


CLINICAL SNAPSHOT

Outpatient visits at Joslin: 2015: 3356, 2016: 2519

Inpatient visits at Joslin: 2015: 307, 2016: 294

Children in the diabetes mellitus program: ~1200

Children with new onset diabetes seen in 2015: >100
FACULTY

Marcus Rivera, MD, Interim Division Chief, Assistant Professor of Pediatrics
Mirza Beg, MD, Associate Professor of Pediatrics
Manoochehr Karjoo, MD, Professor of Pediatrics, Director Emeritus Pediatrics
Prateek Wali, MD, Assistant Professor of Pediatrics

CLINICAL OVERVIEW

The division of pediatric gastroenterology, hepatology and nutrition is comprised of 4 board certified pediatric gastroenterologists, who provide comprehensive outpatient and inpatient care for children with disorders related to the gastrointestinal and hepato-biliary systems. Our team also includes an incredibly dedicated nursing staff, working alongside a division-dedicated nutritionist to provide multidisciplinary care to a growing number of children. This expertise and teamwork allows us to 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.

Examples of disorders that we treat include:

- Allergic Colitis
- Celiac Disease
- Constipation
- Diarrhea
- Encopresis
- Eosinophilic Esophagitis (EOE)
- Eosinophilic Gastrointestinal Disorders (EGIDs)
- Failure to Thrive (FTT)
- Food Allergy
- Gastroesophageal Reflux (GER)
- Helicobacter Pylori (H. Pylori) infection
- Hepatitis B Virus (HBV) and Hepatitis C (HCV) infection
- Hyperbilirubinemia and Jaundice
- Inflammatory Bowel Disease, Crohn’s disease, and Ulcerative colitis (UC)
- Irritable Bowel Syndrome (IBS)
- Stomach and Duodenal Ulcers
- Stomach Pains
- Short Bowel Syndrome (SBS)
- Total Parenteral Nutrition (TPN)
The division also operates an expanding Intestinal Failure/Short Bowel Syndrome (SBS) and TPN management program under the supervision of Dr. Rivera. Working with home care providers and outpatient pharmacies, we now provide comprehensive multidisciplinary gastrointestinal, nutrition, and surgical care to these complex patients.

Our division is also an active participant in ImproveCareNow, a national collaborative effort focused on managing pediatric patients with Inflammatory Bowel Disease (IBD). As a burgeoning Center of Excellence and one of only 3 children’s Hospitals in New York to participate in this effort, we are proud to offer our families of children with IBD a unique, comprehensive, state of the art approach to IBD care.

EDUCATIONAL HIGHLIGHTS

The gastroenterology 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 GI diseases. In addition, faculty members provide residents and medical students pathways to understanding the pathophysiology, diagnosis and management of most gastrointestinal and liver diseases seen in pediatrics.

Medical students have the option for an elective rotation in the division, which has become a favorite among students and has historically excellent reviews. The faculty also serves as mentors and faculty advisors to those students who elect to rotate through the division.

Resident physicians from the Upstate Golisano Children’s Hospital pediatric and family medicine residency programs partake in a required clinical rotation in our division, seeing both inpatients and outpatients. For many, this month-long rotation inspires them to pursue the specialty as a career. There are also opportunities to participate in clinical academic projects and potential for publications in peer-reviewed journals and presentations at local and national meetings.

RESEARCH HIGHLIGHTS

The division’s clinical program for children with inflammatory bowel disease (IBD), under the supervision of Dr. Wali, has generated a number of research studies. The Protect Trial is an NIH-sponsored multicenter program examining the diagnosis and management of IBD in children. Dr. Wali is also collaborating with Dr. Kerr studying the role of SHIP expression in children with IBD. Also, as above, our involvement in the ImproveCareNow program has enabled us to actively participate in a national research and patient care initiative, recognized for its scope and success in management of pediatric IBD. The division has also been awarded a grant through the Children’s Miracle Network to fund a parents’ support group, which is an integral part of the care of our Inflammatory Bowel Disease patients. With their support, we have been able to implement this program this year, and tie it in with the ImproveCareNow initiative.

CLINICAL SNAPSHOT

Outpatient visits .................................................. 2015: 6259
2016: 5582

Inpatient encounters ........................................ 2015: 1428
2016: 1074

Total Procedural activities ................................ 2015: 1373
2016: 1252
GENERAL PEDIATRICS

FACULTY

Steven Blatt, MD, Professor of Pediatrics, Division Director, General Pediatrics, Associate Professor Syracuse University College of Law (courtesy appointment)

John Andrake, MD, Associate Professor of Pediatrics, Division Director, Pediatric Hospitalist

Janice Bach, MD, Assistant Professor of Pediatrics

Winter Berry, DO, Assistant Professor of Pediatrics

Ann Botash, MD, Professor of Pediatrics, Vice Chair for Educational Affairs

Y. Katherine Chang, MD, Assistant Professor of Pediatrics (left program 2015)

Kin-Kee Henry Chung, DO, Assistant Professor of Pediatrics (left program 2016)

John Friedman, MD, Clinical Professor of Pediatrics and Psychiatry

Robert Hingre, MD, Assistant Professor of Pediatrics

Travis Hobart, MD, Assistant Professor of Pediatrics and Department of Public Health

Tobey Kressel, MD, Assistant Professor of Pediatrics

Ellen McHugh, MD, Assistant Professor of Pediatrics

Victoria Meguid, MBBS, Associate Professor of Pediatrics Emeritus (retired 2015)

Elizabeth Nelsen, MD, Assistant Professor of Pediatrics, Associate Director, Pediatric Residency

Joseph Nimeh, MD, Assistant Professor of Pediatrics

Bradley Olson, MD, Associate Professor of Pediatrics (left program 2016)

Jenica O’Malley, DO, Assistant Professor of Pediatrics

Alicia Pekarsky, MD, Assistant Professor of Pediatrics

Ronald Saletsky, PhD, Associate Professor of Psychiatry

Ellen Schurman, MD, Assistant Professor of Pediatrics

Andrea Shaw, MD, Assistant Professor of Pediatrics

Jaclyn Sisskind, MD, Assistant Professor of Pediatrics

Anne Sveen, MD, Assistant Professor of Pediatrics

Karen Teelin, MD, Assistant Professor of Pediatrics

Howard Weinberger, MD, Professor of Pediatrics Emeritus (retired 2014)

CLINICAL OVERVIEW

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

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. Special 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.

The Child Abuse Referral and Evaluation (CARE) Program, through its offices at the McMahon Ryan Child Advocacy Center, provides medical evaluations for children who are suspected to be maltreated or abused.

The Adolescent Medicine Program offers primary and specialty care to patients 11 to 21 years of age.

The Syracuse Medical-Legal Partnership (SMLP) is a Medical-Legal Partnership between the University Pediatric and Adolescent Center (UPAC) of University Hospital of SUNY Upstate Medical University and the Children's Rights and Family Law Clinic (CRC) and Family Law and Social Policy Center (FLSPC) of Syracuse University College of Law.

The Pediatric International Health Clinic was started in July 2005 in order to provide more specialized care to the more than 500 new immigrants arriving annually in Central New York.

The Central/Eastern New York Lead Poisoning Resource Center is funded by the New York State Department of Health.

GRANTS AND CONTRACTS

Blatt SD


Health Steps for Young Children. Enhanced Ambulatory Care grant via NY State Office of Mental Health. Co-PI. 2016-2019

Botash AS


CLINICAL SNAPSHOT

General Pediatrics ......................................................... 2015 Outpatient visits: 21,262
2016 Outpatient visits: 20,470

Adolescent ................................................................. 2015 Outpatient visits: 820
2016 Outpatient visits: 858

CARE .......................................................... 2015 Outpatient visits: 238
2016 Outpatient visits: 148

Enhance .......................................................... 2015 Outpatient visits: 987
2016 Outpatient visits: 653

Upstate Pediatrics ......................................................... 2015 Outpatient visits: 11,816
2016 Outpatient visits: 11,583
PEDIATRIC CLINICAL GENETICS

FACULTY

Robert Roger Lebel, MD. Professor of Pediatrics, Section Chief

Joan Pellegrino, MD, Associate Professor of Pediatrics

CLINICAL OVERVIEW

The Division of Clinical Genetics is comprised of two specialty programs which include medical genetics, providing genetic evaluations and counseling for adults and young children, and the metabolic program.

The Inherited Metabolic Diseases Specialty Center provides consultation and management of individuals with inborn errors of metabolism. We are a New York State Newborn screening referral center providing evaluation of infants with abnormal newborn metabolic screens in our catchment area. The center also has a lysosomal storage program for evaluation of individuals and management of 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 MS1 course in medical ethics and has 1-3 rising MS2 students for summer research each year. Dr. Lebel lectures on syndrome recognition to the MS3 students in their pediatrics clerkship and has 1 or 2 MS2 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 teaches first year medical school courses including, Practice of Medicine and Foundation of Reasoning in Medicine. She also instructs third and fourth year students as they rotate through Genetics. Dr. Pellegrino is involved in teaching pediatric 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.

GRANTS AND CONTRACTS

Pellegrino J

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

A Phase 4, Open-Label, Prospective Study in Patients with Pompe Disease to Evaluate the Efficacy and Safety of Alglucosidase Alfa (study drug) Produced at the 4000 L Scale. Sponsor: Genzyme. PI. 2012–2015.


Lebel RR


CLINICAL SNAPSHOT

Outpatient visits ................................................. 2015: ................................. 1081

2016: ................................. 779
DEPARTMENT OF PEDIATRICS

PEDIATRIC HEMATOLOGY/ONCOLOGY

FACULTY

Melanie Comito, MD, Professor of Pediatrics, Division Director

Amy Caruso Brown, MD, MSc, MSCS, Assistant Professor of Pediatrics, 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, Program Director, Pediatric Residency Program

Karol Kerr, MD, Assistant Professor of Pediatrics (left program 2016)

William G. Kerr, PhD, Professor of Pediatrics and Microbiology & Immunology, Murphy Family Professor of Children’s Oncology Research

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

Richard Sills, MD, Professor of Pediatrics Emeritus (Retired 2015)

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

CLINICAL OVERVIEW

The Division of Pediatric Hematology and 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 ready 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. A separate multidisciplinary neuro-oncology tumor board is held on a monthly basis. 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 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, educational specialist and social work support.

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 Children’s Oncology Group, 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.

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 popular acting internship caring for the inpatients 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 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. We have had a number of residents continue their education with fellowships in Pediatric Hematology & Oncology.
Dr. Brown teaches a number of undergraduate medical student courses in bioethics. She also provides Case-Based Professionalism Education for Internal Medicine Residents and Fellows. She is the co-director of a course in foundations for reasoning in medicine.

**RESEARCH HIGHLIGHTS**

All of the clinical pediatric oncologists participate in clinical trials with the Children’s Oncology Group and regularly enroll patients in these international clinical trials.

Dr. Brown’s interest include decision making, provider–family communication, use of social media in healthcare, bioethics education, access to pediatric oncology and pediatric palliative care in resource-limited settings.

Dr. Cherrick’s interests include supportive care in Pediatric Oncology patients and Palliative care in Oncology patients.

Dr. Melanie Comito, as the new division chief, brings expertise in pediatric neuro-oncology, 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. Prior to coming to Syracuse, she was an active member in the Pediatric Hematology/Oncology Program Directors Subcommittee through the American Society of Pediatric Hematology/Oncology.

Dr. Dvorak is involved in the Center for Disease Control and Prevention’s Public Health Surveillance for Bleeding Disorders project and the My Life, Our Future project, which are studying a population of children with bleeding disorders. Additional interests are in quality improvement, with a special focus on central line associated infections and hospital acquired thrombosis.

Dr. Kennedy is the institutional primary investigator for the NEXT consortium protocols for young children with aggressive brain tumors. Her interests in brain tumors also includes those occurring in children with NF-1 and Tuberous Sclerosis. In her dual role as the Pediatric Residency director, she is also currently looking at validity of outcomes measures (board pass rates) as assessment of residency programs.

Dr. William Kerr has a distinguished research program related to the role of SHIP expression in a variety of biologic functions. This work has significant impact for pediatric cancers. In 2016, Dr. Kerr was granted a US Fulbright Scholar Award through the United States Department of State Bureau of Educational and Cultural Affairs, in Allergy and Immunology and is conducting research at the University of Aix-En-Provence, France.

Dr. Scott’s interests are in pediatric hematology. This includes the clinical treatment of children with various hemoglobinopathies including the directorship of the Comprehensive Sickle Cell Center. Her interests in Thalassemia care has led to participation in the Mid-Atlantic Regional Thalassemia Group.

Dr. Sima has expertise in pediatric solid tumor multidisciplinary management. As director of the Survivor Wellness Clinic, her interests includes cancer survivorship and long term complications of cancer treatment including infertility.

**GRANTS AND CONTRACTS**

Comito, MA


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.

**Kerr, WG**

SHIP1 Inhibition to Facilitate Allogeneic BMT. Hendriks Family Fund. PI. 2016.


**Sima, J**

Health Science Center Foundation at Syracuse: 2015 Creating a Childhood Cancer Survivors Database Fund. PI. 2013-present.

**CLINICAL SNAPSHOT**

Outpatient visits: ................................................... 2015: ................ 4246

2016: ................ 4027

Inpatient encounters: ................................................... 2015: ................ 2473

2016: ................ 2494

Infusion center encounters: ........................................... 2015: ................ 2039

2016: ................ 1723
EDUCATIONAL HIGHLIGHTS

Hospital Medicine faculty are involved in a variety of educational activities. The division is responsible for all the inpatient educational activities for the students on the pediatric clerkship. Medical students are an integral part of the inpatient teams. Dr. Nead serves as an Assistant 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. Dr. Ajagbe serves as an Associate Program Director for the Residency Program. 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.

The division is responsible for the handoff education. The I-PASS (pediatric residency hand-off tool) committee has implemented I-PASS at our program. Educational workshops throughout the year are used to teach the residents this skill.

Division faculty present at department Grand Rounds and regularly participate and present in the Monthly Morbidity and Mortality Conferences.
RESEARCH HIGHLIGHTS

The division has studied novel ways for communicating with referring primary care physicians. This has included the use of SMS text messaging to provide discharge information. This is currently being studied in an IRB approved project.

Faculty participate in multi-institutional studies, including the American Academy of Pediatric's Improving Community Acquired Pneumonia (ICAP) project through the Quality Improvement and Innovations Network. This is a 52 hospital project sponsored by the Friends of the Children Fund with an aim to align pneumonia care practices with the American Academy of Pediatrics 2011 Pneumonia Care Guidelines. We have also participated in projects involving pediatric sepsis and blood culture positivity. The faculty are members of the Pediatric Research in Inpatient Settings (PRIS) Network and the Quality Improvement and Innovation Network (QuIIN).

DIVISION HIGHLIGHTS

The division has been actively involved in patient safety. Each member of the Division leads a team, which focus on eliminating patient harm. 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. This collaborative addresses catheter associated UTIs, injuries from falls and immobility, pressure injuries, catheter associated blood stream infections, Peripheral IV infiltration and extravasations, ventilator-associated events, venous thromboembolism, and adverse drug events. In addition, Dr. Schafer has been named the department’s Quality and Safety Officer. She leads a group that oversees Pediatric Sepsis and Septic Shock. She has worked on this at the local and state level. She was chosen to serve on the Children’s Hospital Association expert advisory panel for Improving Pediatric Sepsis Outcomes and was invited to join the Association’s Quality and Safety Leader's Forum.

CLINICAL SNAPSHOT

Inpatient visits ....................................................... 2015: .................. 8772
2016: .................. 9523
PEDIATRIC INFECTIOUS DISEASES

FACULTY

Leonard B. Weiner, MD, 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, Associate Professor of Pediatrics

Manika Suryadevara, MD, Assistant Professor of Pediatrics

CLINICAL OVERVIEW

The Division of 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 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 neonatalists to direct the diagnostic and therapeutic evaluations of patients with infectious disease and/or immunologic problems.

The activities of the Division of Infectious Disease 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 Pediatric Infectious Disease Division 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.

The Pediatric Infectious Disease Division 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.

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. Weiner currently supervises protocols to evaluate novel antiviral therapies and multiple clinical vaccine trials. Studies involving newer meningococcal, pneumococcal, influenza, DTAP/Hib/IPV and MMRV vaccines are currently underway. Vaccine trials take place at University Pediatric and Adolescent Center and other sites.
Dr. Domachowske’s clinical research interests focus on the epidemiology and clinical manifestations of lower respiratory tract viral infections. He has paralleled these interests with an extensive laboratory program involving the study of severe respiratory virus infection utilizing animal models. Laboratory studies are ongoing to identify anti-RSV compounds of promise to move in to human clinical trials. Dr. Domachowske’s clinical and epidemiologic trials include Respiratory syncytial virus (RSV) related protocols on disease pathogenesis, RSV vaccines and a series of trials aimed at the development of a maternal immunization research program. Four new clinical trials are addressing the potential benefit of giving RSV vaccines during pregnancy in an effort to protect the newborn. Additionally, Dr. Domachowske has recently been appointed as Director, Maternal-Child Pediatric Health for the institution’s Global Health Program and has gained responsibility for launching clinical vaccine trials in Machala Ecuador. An NIH sponsored candidate Zika virus vaccine is among the first to be launched at the SUNY site in South America.

Dr. Shaw’s clinical research interests focus on epidemiology and severity of S. aureus infection among healthy children. Current research focuses on establishing the role of S. aureus virulence factors among seriously ill children and the importance of S. aureus colonization among children. She has also undertaken a series of ecological studies aimed at elucidating the causes of vaccine refusal among various populations and to describe epidemiology of vaccine hesitancy in the US.

Dr. 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 involved in clinical vaccine trials and trials to develop intervention targets for the treatment and prevention of RSV infections.

**GRANTS AND CONTRACTS**

**Weiner LB**


Adolescent/Young Adult HIV Specialized Care Center (SCC). New York State Department of Health AIDS Institute. PI. 2011-2016.


A phase IIIA, randomized, observer-blind, multinational consistency study to evaluate the immunogenicity and safety of GSK Biologicals’ MMR vaccine (209762) (Priorix®) compared to Merck & Co., Inc.’s MMR vaccine (M-M-R’II), as a first dose, both co-administered with Varivax, Havrix and Prevnar 13 (subset of children) to healthy children 12 to 15 months of age. Sponsor: Merck. PI. 2012-2015.

A phase IIIA, randomized, observer-blind, controlled, multinational study to evaluate the safety and immunogenicity of GSK Biologicals’ MMR vaccine (209762) (Priorix®) compared to Merck & Co., Inc.’s MMR vaccine (M-M-R’II or VaxPro), as a first dose, both co-administered with Varivax, Havrix (all subjects) and Prevnar 13 (US subset) in healthy children 12 to 15 months of age. Sponsor: Merck. PI. 2014-2016.

A Phase I-II, Randomized, Double-Blind, Study to Evaluate the Safety, Tolerability, and Immunogenicity of Vi14 in Healthy Adults and Infants. Sponsor: Merck. PI. 2015–present.

A Phase I-II, Randomized, Double-Blind, Study to Evaluate the Safety, Tolerability, and Immunogenicity of Different Formulations of Vi14 in Healthy Adults and Infants. Sponsor: Merck. PI. 2015–present.

Safety and Immunogenicity of Fluzone® Quadrivalent Vaccine Administered to Healthy Children 6 to < 36 Months of Age. Sponsor: Sanofi Pasteur. PI. 2016 – present.

Domachowske JB


Phase 1b/2a Randomized double blind placebo controlled dose escalation study to evaluate the safety tolerability and pharmacokinetics of MEDI8897 a monoclonal antibody with an extended half-life against respiratory syncytial virus in healthy preterm infants. Sponsor: Medimmune. PI. 2014-2015.


American Academy of Pediatrics Immunization Educational Grant supported by Novartis. Faculty. 2015.

American Academy of Pediatrics Immunization Educational Grant supported by Pfizer. Faculty. 2015.

A phase 3 randomized double blind placebo controlled study evaluating the efficacy and safety of a human monoclonal antibody REGN2222 for the prevention of medically attended RSV infection in preterm infants. Sponsor: Regeneron. PI. 2015-2016.

A Phase II, randomised, observer-blind, controlled, multi-country study to assess the safety, reactogenicity and immunogenicity of a single intramuscular dose of different formulations of GSK Biologicals’ investigational RSV vaccine (GSK3003891A), in healthy women aged 18 to 45 years. Sponsor: GlaxoSmithKline. PI. 2015-2016.


Suryadevara M

Assessment of clinical benefit of neutrophil attenuation with 1A8 antibody in PVM infected mice. GlaxoSmithKline, LLC. PI. 2015-2016.

**CLINICAL SNAPSHOT**

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<tr>
<th></th>
<th>2015</th>
<th>2016</th>
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<tr>
<td><strong>Outpatient visits</strong></td>
<td>950</td>
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<td><strong>Inpatient encounters</strong></td>
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PEDIATRIC NEPHROLOGY

FACULTY

Scott Schurman, MD, Associate Professor of Pediatrics, Section Head

Dongmei Huang, MD, Assistant Professor of Pediatrics

Thomas Welch, MD, Professor of Pediatrics, Chair, Department of Pediatrics

CLINICAL OVERVIEW

The Section of Nephrology provides inpatient consultation and acute dialysis care, including peritoneal dialysis, hemodialysis, and hemofiltration at the Upstate Golisano Children’s Hospital (GCH). Outpatient dialysis care, both peritoneal dialysis and hemodialysis, has long been provided at the University Dialysis Center in Syracuse. However, all outpatient dialysis care, including patient/family training will be moving to a new GCH facility as of 2017. Other outpatient services are provided in our offices at 725 Irving Ave, Suite 805, directly across the street from GCH.

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, and all stages of chronic renal insufficiency. However, the section’s activity has few limits. We have an established expertise in the diagnosis and treatment of children with hypertension, including 24 hour ambulatory blood pressure monitoring. We care for patients with mineral metabolism disorders and metabolic bone disease, including inherited and acquired forms of rickets, osteogenesis imperfecta, and osteoporosis. 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 monthly combined case review.

RESEARCH HIGHLIGHTS

Role of Local Complement Synthesis in the Kidney

Dr. Welch has a long-standing interest in the role of locally synthesized complement components in the progression of glomerulonephritis to end stage kidney disease. He has developed an animal model of immune glomerulonephritis, and has demonstrated the importance of tubular synthesis of several complement proteins to the clinical and histologic progression of the disorder. This corresponds with similar observations he previously made in human material.

Most recently, he has been working with Dr. Middleton in the Neuroscience and Physiology Department to define the patterns of renal gene expression as the disease progresses. This has led to understanding of the role of angiotensin converting enzyme therapy in attenuating the progression of glomerulonephritis by down regulating the expression of several collagen genes.

Research in Dr. Welch’s laboratory includes development of a murine model of diarrhea-associated hemolytic uremic syndrome (HUS). Using mice injected with purified Shiga toxin, he has been able to very closely reproduce the histologic appearance of HUS. Once the time course of this model is defined more precisely, a variety of therapeutic interventions will be employed to see if the course of the disease can be modified.
Scope Collaborative

The Pediatric Nephrology Center at GCH participates in the Standardizing Care to Improve Outcomes in Pediatric ESRD (SCOPE) Collaborative. A Quality Transformation Network, the SCOPE Collaborative has focused on catheter-related infection prevention by implementing evidence-based catheter care bundles: peritoneal dialysis catheter bundles were implemented beginning September 2011, and bundles expanded to hemodialysis catheters in September 2013.

SCOPE is a large scale QI project involving 29 pediatric nephrology centers through the US. The collaborative has achieved substantial improvement in prevention of catheter related infection and hospitalization. As of November 2014 the collaborative has prevented an estimated 147 peritonitis episodes and 84 hospitalizations saving $1,808,024. There has been a 38% reduction in peritonitis rate in established outpatient peritoneal dialysis patients.

CLINICAL SNAPSHOT

Outpatient visits ......................................................... 2015: ................. 2089
2016: ................. 1822

Inpatient encounters .................................................. 2015: ................. 734
2016: ................. 653

Kidney transplants ...................................................... 2015: ................. 4
2016: ................. 4
NEURODEVELOPMENTAL PEDIATRICS

FACULTY

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

KinKee Henry Chung, Assistant Professor of Pediatrics (left program 2016)

Nicole DeRosa, PsyD, Assistant Professor of Pediatrics

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

Carol Grant, EdD, Assistant Professor of Pediatrics, Director, Margaret L. Williams Developmental Evaluation Center

Louis Pellegrino, MD, Associate Professor of Pediatrics

Anne Reagan, PsyD, Associate Professor of Pediatrics

CLINICAL OVERVIEW

The Division of Neurodevelopmental Pediatrics 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 Autism and Child Development, providing 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. Also 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 Family Behavior Analysis Program which is housed in the Presidential Plaza Medical Building.
EDUCATIONAL HIGHLIGHTS

Dr. Pellegrino supervises the educational experience of first year pediatric 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 pediatric residents and 3rd 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.

RESEARCH HIGHLIGHTS

Drs. Roane and DeRosa 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 the US Department of Defense developing online caregiver training modules for individuals with autism spectrum disorders. Dr. Roane also receives clinical funding from the NYS Office for Persons with Developmental Disabilities and received funding from the 2015 Nappi Family Research Awards.

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.

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. Nicole DeRosa was elected to serve as Secretary for the New York State Association for Behavior Analysis.
GRANTS AND CONTRACTS

**Dosa, N**

Open Area Support System (OASUS) and Portable Mobility Aid for Children (PUMA) for Ballet for All. Green Family Foundation. PI. 2014–2015.


**Roane, H**


**CLINICAL SNAPSHOT**


Outpatient visits – Family Behavior Analysis Program. 2015: 2815 2016: 2877
PEDIATRIC NEUROLOGY

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

FACULTY

Nancy Havernick, MD, Assistant Professor of Neurology, Pediatrics and Psychiatry
Melissa Ko, MD, Associate Professor of Neurology and Pediatrics
Steven Rothman, MD, Professor of Neurology and Pediatrics
Ai Sakonju, MD, Assistant Professor of Neurology and Pediatrics
Guojun Zhang, MD, PhD, Assistant Professor of Neurology and Pediatrics

CLINICAL OVERVIEW

The division of pediatric neurology 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 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.

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.

**Neuromuscular:** Children with muscular dystrophies and hereditary neuropathies are eligible for care under the auspices of the Muscular Dystrophy Association weekly clinic centrally located in Syracuse with continuing care available in Utica and Watertown New York. 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, 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 Med and Rehab and Developmental Pediatrics subspecialty groups for comprehensive management.
PEDIATRIC PULMONOLOGY

FACULTY

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

Ran D. Anbar, MD, Professor of Pediatrics and Medicine Emeritus (retired 2015)

Aiasha Baig, MD, Assistant Professor of Pediatrics

Larry Consenstein, MD, Clinical Associate Professor of Pediatrics

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

Robert V. Hingre, MD, Assistant Professor of Pediatrics

CLINICAL OVERVIEW

The Division of Pulmonology provides care for children and adolescents with lung and airway diseases. Major clinical activities of the division include care of patients with asthma, allergies, cystic fibrosis, within a Cystic Fibrosis Foundation accredited center, bronchopulmonary dysplasia, congenital airway and lung anomalies, respiratory disorders in children with neuromuscular anomalies, sleep disorders including clinic for children treated via Positive Airway Pressure Therapy, and children dependent on technology, such as patients with tracheostomies, some of whom are dependent on invasive, or non-invasive ventilator.

The Division provides a bronchoscopy program, state-of-the-art pulmonary function testing, accredited sleep laboratory, and comprehensive cardio-pulmonary stress testing.

Outpatient care is provided at the Pediatric Multi-specialties Center at University Hospital. Inpatients are cared for both in the Upstate Golisano Children’s Hospital and the Crouse Hospital Neonatal Intensive Care Unit.

EDUCATIONAL HIGHLIGHTS

Pediatric Pulmonology faculty are involved in a variety of educational activities for students, residents and staff, including three nurse practitioners. Teaching is provided to students and residents at bed side and at the Cystic Fibrosis Center. The clerkship orientation lectures are shared by faculty members. Third and fourth year medical students have the option of an elective in the division. Pediatric residents can undertake specialty electives with Pediatric Pulmonology.

RESEARCH HIGHLIGHTS

Drs. Fortner and Soultan have been involved in studies of patients with cystic fibrosis including multi-center therapeutic trials and national observational studies. The division and the Cystic Fibrosis Center work continuously on quality improvement projects. Research interests in sleep medicine include Positive Airway Pressure adherence and effectiveness of Tonsillectomy and Adenoidectomy in treating obstructive sleep apnea.

GRANTS AND CONTRACTS

Fortner, C


Cystic Fibrosis Foundation Care Center Grant. PI. 2015-2017.

Implementation of Outpatient Pharmacy Services: Award for a Pharmacist and/or Pharmacy Technician. Cystic Fibrosis Foundation. PI. 2016-2019.
Research Coordinator Award. Cystic Fibrosis Foundation. PI. 2016.

**CLINICAL SNAPSHOT**

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<thead>
<tr>
<th>Service</th>
<th>2015</th>
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<tr>
<td>Outpatient Visits</td>
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<tr>
<td>Inpatient Encounters</td>
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<tr>
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PEDIATRIC RHEUMATOLOGY AND INTEGRATIVE MEDICINE

FACULTY

Caitlin Sgarlat, DO, MSc; Assistant Professor of Pediatrics, Division Director

William Hannan, MD, Associate Professor of Pediatrics

CLINICAL OVERVIEW

Integrative care is 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. 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. A comprehensive integrative approach is used anchored in lifestyle medicine in combination with nurturing intrinsic healing in 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).

CLINICAL SNAPSHOT

Total Pediatric Arthritis Center visits ..................................... 2015: ....................... 1245
                                                      2016: ....................... 1188

Integrative Medicine Program visits (established 2016) ................. 2015: ....................... N/A
                                                      2016: ....................... 50
PEDIATRIC SURGICAL SPECIALTIES

PEDIATRIC ANESTHESIOLOGY

FACULTY

Full-Time:

Bettina Smallman, MD, Professor of Anesthesiology and Pediatrics, Division Director
Jadwiga Bednarczyk, MD, Assistant Professor of Anesthesiology
Rahila Bilal, MD, Assistant Professor of Anesthesiology
Joseph Resti, MD, Assistant Professor of Anesthesiology
Jan Wong, MD, Assistant Professor of Anesthesiology

Part-Time:

Richard Beers, MD, Professor of Anesthesiology
Tracy Buckingham, MD, Assistant Professor of Anesthesiology
Robert Calimlim, MD, Associate Professor of Anesthesiology
Elizabeth Demers-Lavelle, MD, Assistant Professor of Anesthesiology
Fenghua Li, MD, Associate Professor of Anesthesiology
Jeremy McKay, MD, Assistant Professor of Anesthesiology
David Romano, MD, Associate Professor of Anesthesiology

CLINICAL OVERVIEW

The Division of Pediatric Anesthesia in the Department of Anesthesiology has been experiencing 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 section of pediatric Anesthesia participates actively in anesthesia coverage at the Upstate Ambulatory Surgical Center. With the arrival of new pediatric surgeons and pediatric urologists many pediatric patients are cared for in the outpatient setting.

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.
PEDiatric Cardiovascular-Thoracic Surgery

Faculty

George Alfieris, MD, Assistant Professor of Clinical Surgery and Pediatrics
Francisco Gensini, MD, Assistant Professor of Clinical Surgery

Clinical Overview

For a city of its size, Syracuse is very 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. 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 to undertake a higher volume of cases than he would at either center alone.

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

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. 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. 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.

Both inpatient and outpatient procedures are performed at the Pietrafesa Center for Children's Surgery, a separate operating suite for children in the 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 I trauma center. Upstate Golisano Children's Hospital was the first pediatric hospital in New York State to receive this accreditation and there are currently only four programs in the state. Under the leadership of Dr. Wallenstein, we are currently undergoing the recertification process that will end in February 2017.
Dr. Jennifer Stanger, who joined us in the fall of 2014, has already established a busy clinical practice. She has focused on scholarly activity and quality improvement efforts for surgical care within Upstate Golisano Children’s Hospital. In this role she will also be the champion surgeon for the pediatric National Surgical Quality Improvement Program (NSQiP) which will begin collecting data this fall.

Our educational efforts focus on teaching third and fourth year medical students as well as our junior and senior level general surgery residents. We are also pleased to participate in the educational efforts 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. Overall 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 fellowships which is considered extremely competitive. Since October 2014, Dr. Meier has taken on the leadership of the General Surgery Residency as its program director. In this role, he has participated in multiple research projects on surgical education and co-authored multiple publications.

**PEDIATRIC NEUROSURGERY**

**FACULTY**

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

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

**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 with some referrals from other states including from 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, Center for Development, Trauma, 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, Cranio cervical 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 team includes Dr. Danielle Katz (pediatric orthopedics), Dr. Jonathan Ridell (pediatric urology), and Dr. Tovar-Spinoza. 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 pre-natal consultation 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 are utilized. Dr. 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. Turk and Kanter from the Department of Physical Medicine and Rehabilitation, and offers a comprehensive plan for the treatment of these patients.

**PEDIATRIC OPHTHALMOLOGY**

**FACULTY**

**Melissa Ko, MD**, Associate Professor of Ophthalmology

**Stephen W. Merriam, MD**, Assistant Professor of Ophthalmology

**Walter W. Merriam, MD**, Associate Professor of Ophthalmology

**Leon-Paul Noel, MD**, Clinical Professor of Ophthalmology and Pediatrics (retired 2016)

**Marc J. Safran, MD**, Assistant Professor of Ophthalmology

**CLINICAL OVERVIEW**

The pediatric ophthalmology service is involved in the whole gamut of infant and child ocular disorders, ranging from simple errors of refraction to significant anomalies. The service also has a growing experience with the use of intraocular lens placement in infants as well as the treatment of congenital glaucoma.
PEDIATRIC ORTHOPEDIC SURGERY

FACULTY

Stephen A. Albanese, MD, Professor of Orthopedic Surgery and Chair of Department of Orthopedic Surgery
Timothy Damron, MD, Professor of Orthopedic Surgery
Brian Harley, MD, Associate Professor of Orthopedic Surgery
Danielle A. Katz, MD, Associate Professor of Orthopedic Surgery
William Lavelle, MD, Associate Professor of Orthopedic Surgery
Kathryn E. Palomino, 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 orthopedic care. In addition to the management of traumatic injuries for children in the immediate Syracuse area, the group provides advanced care for complex disorders such as scoliosis and vertebral anomalies for an extensive referral area. The group has an evening walk-in urgent care program and is also available daily to handle acute musculoskeletal conditions during regular office hours.

Several orthopedic surgeons within the Department of Orthopedic Surgery play major roles in the care of children. Drs. Albanese, Katz and Palomino are fellowship trained pediatric orthopedic surgeons and manage patients with a wide variety of acute and chronic conditions. Dr. Timothy Damron is trained in orthopedic oncology and is an expert in the management of benign and malignant skeletal conditions. He works closely with the pediatric hematology-oncology service.

Dr. Brian Harley completed a pediatric hand and upper extremity fellowship. His expertise includes hand surgery, microsurgery and the management of congenital and traumatic conditions. Dr. William Lavelle completed a spine fellowship and along with the pediatric orthopedists in the Department, provides care for patients with spine deformities and other spinal conditions.

GRANTS AND CONTRACTS

Damron TA
Biochemical and Biomechanical Changes to Bone Following Radiotherapy, National Institutes of Health (NIAMS). PI. Mann KA, Oest ME, Co-PIs. 2014–2019.
PED Diage TOLARYNGOLOGY

FACULTY

Eileen Marinnan, MS, MPH, Instructor of ENT-Cleft Palate Clinic

Haidy Marzouk, MD, Assistant Professor of Otolaryngology

Anthony Mortelliti, MD, Associate Professor of Otolaryngology and Pediatrics

Sherard Tatum, MD, Professor of Otolaryngology 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.

PED Diage UROLOGY

FACULTY

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

Jonathan Riddell, 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.
AFFILIATED FACULTY

The clinical and educational missions of the Department of Pediatrics are enhanced by several 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

FACULTY

Nader H. Atallah, MD, Clinical Associate Professor of Pediatrics
Craig J. Byrum, MD, Clinical Professor of Pediatrics and Medicine
Matthew J. Egan, MD, Clinical Associate Professor of Pediatrics
Daniel A. Kveselis, MD, Clinical Associate Professor of Pediatrics
Frank C. Smith, MD, Clinical Professor of Pediatrics

CLINICAL OVERVIEW

The Division of Pediatric Cardiology provides the full spectrum of non-invasive and interventional diagnostic and therapeutic services. This activity occurs in the neonatal intensive care unit at Crouse Hospital as well as in the inpatient and critical care units at University Hospital. A number of satellite clinics are staffed by these faculty as well.

NEONATOLOGY: CROUSE HOSPITAL

FACULTY

Rebecca Barnett, DO, Clinical Assistant Professor
Ellen Bifano, MD, Clinical Professor of Pediatrics
Michelle Bode, MD, Clinical Associate Professor of Pediatrics
Boura’a Bou Aram, MD, Clinical Assistant Professor of Pediatrics
Thomas Curran, MD, Clinical Assistant Professor of Pediatrics
Steven Gross, MD, Clinical Professor of Pediatrics
Bonnie Marr, MD, Clinical Assistant Professor of Pediatrics
Swati Murthy, MD, Clinical Assistant Professor of Pediatrics
Melissa Nelson, MD, Clinical Assistant Professor of Pediatrics
Beverly Roy, MD, Clinical Assistant Professor of Pediatrics

CLINICAL OVERVIEW

These neonatologists staff the 60 bed neonatal intensive care unit (NICU) at Crouse Hospital. In addition to the clinical activity in this busy unit, pediatric residents complete a three and a half month neonatology rotation in the NICU.
AWARDS AND PEER REVIEW HONORS

Ann S. Botash, MD
SUNY Upstate Chancellor’s Award for Excellence in Teaching, 2016

Richard M. Cantor, MD
Physician of the Year by the NY American College of Emergency Physicians, 2016
American College of Emergency Physicians National Committee Appointment on Pediatric Emergency Medicine, Public Relations, and Education

Timothy Damron, MD
SUNY President’s Award for Excellence and Leadership in Research, 2016

Joseph B. Domachowske, MD
Salvation Army Civic Award, 2016
American Academy of Pediatrics Achievement Award, 2016

Nienke Dosa, MD
2016 ARISE Foundation Champion of Independence Award

William G. Kerr, PhD
US Fulbright Scholar, Allergy and Immunology, 2016

Elizabeth Nelson, MD
SUNY Upstate Faculty Gold Standard Award, 2016

Henry S. Roane, PhD
Review Panel Membership, National Institutes of Health – Child Psychopathology and Developmental Disabilities Study Section, 2016
Editor-in-Chief, Behavioral Development Bulletin, 2016
Associate Editor, Journal of Developmental and Physical Disabilities, 2016
Board of Directors, Association of Professional Behavior Analysts, 2016

Ronald Saletsky, MD
SUNY Chancellor’s Award for Excellence in Faculty Service, 2016

Zafer Soutlan, MD
SUNY Upstate Faculty Gold Standard Award, 2016

Manika Suryadevara, MD
Salvation Army Civic Award, 2016
SUNY President’s Award for Excellence in Clinical Research by a Young Investigator, 2016

Leonard B. Weiner, MD
American Academy of Pediatrics Award for Lifetime Contribution in Infectious Diseases Education, 2015
SUNY President’s Award for Excellence in Faculty Service, 2016
HONORARY MEMBERSHIPS

American Pediatric Society
Ann S. Botash, MD, Active Member
Joseph B. Domachowske, MD, Active Member
Leonard B. Weiner, MD, Active Member
Thomas R. Welch, MD, Active Member

Society for Pediatric Research
Ann S. Botash, MD, Senior Member
Joseph B. Domachowske, MD, Active Member
Ramesh Sachdeva, MD, Active Member
Thomas R. Welch, MD, Emeritus Member

Sigma Xi
William G. Kerr, PhD, Full Member

Best Doctors
Stephen A. Albanese
John S. Andrake
Nader H. Atallah-Yunes
Ellen M. Bifano
Steven D. Blatt
Ann Sutera Botash
Craig Byron
Irene Cherrick
Joseph B. Domachowske
William P. Hannan
Daniel A. Kveselis

Ellen McHugh
Walter W. Merriam
Elizabeth K. Nelsen
Scott J. Schurman
Jana Shaw
Bettina Smallman
Frank C. Smith
Zafer Soultan
Sherard (Scott) Tatum III
Leonard B. Weiner
Thomas R. Welch
PRESENTATIONS AT SCIENTIFIC MEETINGS

PEDIATRIC EMERGENCY MEDICINE


PEDIATRIC GASTROENTEROLOGY, HEPATOLOGY AND NUTRITION


**GENERAL PEDIATRICS**


Nelsen EK. Pediatric resident satisfaction with an academic half-day. Association of Pediatric Program Directors. Orlando FL, March 2015.


**PEDIATRIC CLINICAL GENETICS**


**PEDIATRIC HEMATOLOGY/ONCOLOGY**

Caruso Brown AE. Grounding the family-provider relationship in the digital community: A case study. ePatients: The Medical, Ethical and Legal Repercussions of Blogging and Micro-Blogging Experiences of Illness and Disease, Queen’s University, Belfast, Northern Ireland, September 2015.


Kerr WG. SHIP1 Deficiency in Murine and Human Inflammatory Bowel Disease. Genetic Control of Immune Cell Activation. Immunology Workshop. Lofoten, Norway, August 2015.


**PEDIATRIC HOSPITAL MEDICINE**


PEDiATRIC INFECTIOUS DISEASES


Bonville CA, Domachowske JB, Suryadevara M. Vaccine attitudes and practices among family medicine (FM) providers across New York State following changes in ACIP vaccine recommendations. IDWeek. New Orleans LA, October 2016.


Shaw J, Mehta M, and McNutt LA. High human papillomavirus (HPV) vaccination coverage is achievable among students vaccinated at the school based health center. Infectious Disease Society of America. New Orleans LA, October 2016.


Suryadevara M, Bonville J, Kline RM, Magowan C, Domachowske E, Cibula DA, Domachowske JB. Student HPV vaccine attitudes by education level and factors associated with vaccine completion. IDWeek. San Diego CA, October 2015.

PEDIATRIC NEPHROLOGY


NEURODEVELOPMENTAL PEDIATRICS


Bishop, D, Finley, A, Silkowski, E, Kadey, HJ, DeRosa, NM, & Roane, HS. Using backward chaining to increase self drinking. 26th Annual Conference of the New York State Association for Behavior Analysis. Albany NY, October 2015.


Silkowski, E, Finley, A, DDeRosa, NM, and Roane, HS. Use of a water chaser to decrease latency to swallowing. 26th Annual Conference of the New York State Association for Behavior Analysis. Albany NY, October 2015.


Baxter, EL, Sullivan, WE, DeRosa, NM, and Roane, HS. Use of probabilistic reinforcement to increase compliance during activity transitions. 27th Annual Conference of the New York State Association for Behavior Analysis. Albany NY, October 2016.


Bishop, J, Mullane, M, Roane, HS, and DeRosa, NM. Evaluation of changes in preference of a neutral stimulus following avoidance training. 26th Annual Conference of the New York State Association for Behavior Analysis. Albany NY, October 2015.


Roane, H. Using behavioral economics to develop treatments for behavior problems. 27th annual meeting of the New York State Association for Behavior Analysis. Albany NY, October 2016.

Roane, HS. Using behavioral economics to develop treatments for behavior problems. 27th annual meeting of the New York State Association for Behavior Analysis. Albany NY, October 2016.


PEDIATRIC PULMONOLOGY


Bowman, ML. Discipline Group Presentation: Musculoskeletal Issues Throughout the Lifespan: Case Study: 64 Year Old Female with Cystic Fibrosis. North American Cystic Fibrosis Conference, Orlando FL, October 2016.


PEDIATRIC ORTHOPEDIC SURGERY


Damron TA, Grant WG, Craig T, Inzinna J, Cohen H. Prospective Randomized Clinical Trial Comparing Ultraporous beta- Tricalcium Phosphate (Tcp) With Bone Marrow Aspirate to Combine TCP with Calcium Sulfate in Benign Cavitary Lesions. Musculoskeletal Tumor Society Annual Meeting. Detroit MI, October 2016.


Werner FW, Mohun PA, Harley BJ. Short WH. Is a Dart Throw Motion the Optimal Rehabilitation Motion After Surgical Reconstruction of the Scapholunate Interosseous Ligament? Orthopedic Research Society Annual Meeting. Orlando FL, March 2016.


* Pediatric Resident
PUBLICATIONS


Margulies BS, DeBoyace SD, Parsons AM, Policastro CG, Ee JS, Damron TA. Functionally deficient mesenchymal stem cells reside in the bone marrow niche with M2-macrophages and amyloid-β protein adjacent to loose total joint implants. J Orthop Res. 2015 May;33(5):615-24.


Oest ME, Mann KA, Zimmerman ND, **Damron TA**. Parathyroid hormone (1-34) transiently protects against radiation-induced bone fragility. *Calcif Tissue Int.* 2016 Jun; 98(6): 619-630.


Bartlow CM, Oest ME, Mann KA, Zimmerman ND, Butt BB, **Damron TA**. PTH(1-34) and zoledronic acid have differing longitudinal effects on juvenile mouse femur strength and morphology. *J Orthop Res.* 2016 Sep.


Rice TA, Brenner TA, Percopo CM, Ma M, Keicher JD, Domachowske JB, Rosenberg HF. Signaling via pattern recognition receptors NOD2 and TLR2 contributes to immunomodulatory control of lethal pneumovirus infection. Antiviral Res. 2016 Aug; 132: 131-140.


Iyer S, Brooks R, Gumbleton M, Kerr WG. SHIP1-expressing mesenchymal stem cells regulate hematopoietic stem cell homeostasis and lineage commitment during aging. Stem Cells Dev. 2015 May 1; 24(9): 1073-1081.


* Pediatric Resident