

ORLANDO  
HEALTH



ARNOLD PALMER  
HOSPITAL  
For Children

ANNUAL  
REPORT



2021



Orlando Health Arnold Palmer Hospital for Children has provided experienced, compassionate care to the children, teenagers and young adults of Central Florida for more than 30 years. Led by world-renowned doctors, and together with dedicated specialists and caregivers, Orlando Health Arnold Palmer offers a wide range of advanced pediatric services in an environment built just for kids.

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# A Message From the President

Greetings,

I am pleased to present the Orlando Health Arnold Palmer Hospital for Children Annual Report for 2021.

Looking back to one year ago, we all hoped that 2021 would bring a return to “normalcy” to our world in general and certainly the world of healthcare. But 2021 brought an increase in COVID-19 volumes, particularly in pediatric cases, and the realization that COVID-19 will be a lasting part of our landscape. Yet, as the pandemic has continued to present ongoing and new challenges, Orlando Health Arnold Palmer has continued to deliver comprehensive, safe and nationally recognized care.

As we welcome a new year, I also welcome the opportunity to share our highlights and accomplishments over the past year. We have not wavered in our commitment to provide ease of access to care, expanding our footprint with new specialty practice locations, including in the MetroWest and Titusville areas. Together with philanthropic support and collaborative partnerships, we also introduced program advancements with state-of-the-art technology and innovation across a range of specialties. Our Neuroscience Center of Excellence features an improved dedicated Epilepsy Monitoring Unit and new Robotic Surgical Assistant (ROSA™) to care for children with seizure disorders. Through Children’s Oncology Group, Orlando Health Arnold Palmer is part of the national initiative to find a cure for pediatric cancer by supporting research through tissue donation. And our cardiology and cardiothoracic surgical teams are incorporating 3D printing into their surgical planning for enhanced treatment options and outcomes.

I am immensely grateful to all our physicians and team members, who have continued to embrace their passion for excellence and compassion in providing children and families with hope and healing.

Respectfully yours,



Cary J. D'Urtona  
President, Orlando Health Arnold Palmer Hospital for Children  
Senior Vice President, Orlando Health



# A Look at Our Numbers

<b>Total Beds</b>	298 †	<b>Payer Mix †</b>	
<b>Visits</b>		Medicaid	61%
Discharges	7,994 †	Managed care/commercial	29%
Average length of stay	4.07 days	Self-pay	9%
Total ER visits	79,066	Other	1%
Arnold Palmer	42,904	<b>Telehealth</b>	
Affiliated hospitals	36,162	Encounters/Visits	13,514
Level 1 Trauma alerts	328	Specialties	24
Outpatient visits	134,405	Cities	293
Surgeries	7,144	States	24
<b>Team Members</b>	1,807 †	<b>Locations</b>	
Providers	342 †	Pediatric emergency departments	1
Physicians	261 †	Community emergency locations	13
Advanced practice providers	67 †	Satellite practice locations	11
Certified registered nurse anesthetists	14 †	Multidisciplinary subspecialty clinics	24
Residents	43*		
Fellows	19*		
Nurses	720 †		
Volunteers	113		
Primary Care Pediatricians in CIN	180		



# Our Accolades



## **U.S. News & World Report** – Ranked in Five Specialties

The year 2021 marked the 12th year in a row that Orlando Health Arnold Palmer has been ranked as a “Best Children’s Hospital” by *U.S. News & World Report*, a global authority in hospital rankings and consumer advice. With designations in pediatric cardiology & heart surgery, pediatric diabetes & endocrinology, pediatric orthopedics, pediatric urology and neonatology, Orlando Health Arnold Palmer is the most recognized children’s hospital in Central Florida.



## **Magnet Recognition**

Meeting the gold standard in nursing excellence, Orlando Health Arnold Palmer is among fewer than 400 out of a potential 6,000 U.S. healthcare organizations to earn Magnet Recognition by the American Nurses Credentialing Center’s (ANCC) Magnet Recognition Program. We’re proud to have earned our second designation.



## **ACS Surgical / ACS Trauma Verification**

Recognized for the highest level of pediatric surgical care, Orlando Health Arnold Palmer also has achieved Level 1 Children’s Surgical Verification and Level 1 Trauma Verification by the American College of Surgeons. We are one of a select number of pediatric hospitals in the nation — and the only facility in Florida — to achieve this level of excellence.



## **Top 100**

Orlando Health Arnold Palmer was included among the 2021 IBM Watson Health 100 Top Hospitals® list. This annual list recognizes excellence in clinical outcomes, operational efficiency, patient experience and financial health.

# Our Locations

## Pediatric Emergency Room

- Orlando Health Arnold Palmer Hospital for Children Bert Martin's Champions for Children Emergency Department & Trauma Center

## Hospitals and Emergency Rooms

All Orlando Health ERs are trained in pediatric emergency medicine by board-certified physicians from Orlando Health Arnold Palmer.

- Orlando Health Dr. P. Phillips Hospital
- Orlando Health – Health Central Hospital
- Orlando Health Horizon West Hospital
- Orlando Health South Lake Hospital
- Orlando Health South Seminole Hospital
- Orlando Health St. Cloud Hospital
- Bayfront Health St. Petersburg
- Orlando Health Emergency Room – Lake Mary
- Orlando Health Emergency Room – Osceola
- Orlando Health Emergency Room – Randal Park
- Orlando Health South Lake Hospital Emergency Room – Blue Cedar
- Orlando Health South Lake Hospital Joe H. & Loretta Scott Emergency Room – Four Corners
- Bayfront Health St. Petersburg Emergency Room – Pinellas Park

## Specialty Practice Locations

- |                    |             |                              |
|--------------------|-------------|------------------------------|
| • Downtown Orlando | • Lake Nona | • Osceola                    |
| • Celebration      | • Maitland  | • Spring Lake – Dr. Phillips |
| • Clermont         | • Melbourne | • Summerport – Winter Garden |
| • Lake Mary        | • MetroWest | • Titusville                 |



	ORLANDO HEALTH HOSPITALS		MEDICAL PAVILIONS
	ERS & PEDIATRIC ERS		PEDIATRIC SPECIALTY PRACTICES





INFORMATION SECURITY

UPDATE  
FOR THE  
SAFETY OF OUR  
SERVICES  
WE ARE  
RELOCATING  
TO A NEW  
LOCATION

# Our Specialties

## Pediatric Services

- Adolescent Medicine
- Anesthesia and Cardiac Anesthesia
- Behavioral Health and Development
- Cardiology and Cardiac Surgery
- Child Abuse
- Craniomaxillofacial Surgery
- Critical Care Medicine and Cardiac Critical Care Medicine
- Emergency and Trauma Care
- Endocrinology and Diabetes
- Gastroenterology
- Genetics
- Gynecology
- Hematology-Oncology
- Hospitalists
- Infectious Diseases & Immunology
- Nephrology
- Neuroscience
- Orthopedics
- Otolaryngology (ENT)
- Palliative Care
- Pathology
- Physical Medicine and Rehabilitation
- Psychology
- Pulmonary and Sleep Medicine
- Radiology
- Rehabilitation Program
- Rheumatology
- Sports Medicine
- Surgery
- Urology

## Our Multidisciplinary Clinics

- Aerodigestive Center
- Bleeding Disorders Clinic
- Brachial Plexus Clinic
- Burn Clinic
- Central Nervous System Tumor Comprehensive Clinic
- Cleft Lip & Cleft Palate Clinic
- Congenital Chest Disorders Clinic
- Craniosynostosis Program
- Cystic Fibrosis Center
- Feeding Difficulties Center
- Fetal Care Center
- Fetal GI Anomalies Clinic
- Healthy Lifestyles Program
- Liver Disorders Clinic
- Neurofibromatosis Clinic
- NICU Development Clinic
- Plagiocephaly Clinic
- Pulmonary Hypertension Clinic
- Spasticity Program
- Spina Bifida Program
- Velopharyngeal Dysfunction Clinic
- Voiding Dysfunction Clinic
- Wheelchair Clinic

Two red surgical masks are arranged in a heart shape against a white background. The masks are positioned with their top edges at the top and their bottom edges meeting at a point at the bottom. A blue rectangular banner is overlaid on the left side of the masks, containing the text "Featured Services" in white.

# Featured Services

# Cardiology

With more than 20 years of experience and expertise in pediatric cardiology, Orlando Health Arnold Palmer offers families an unmatched level of trust and confidence in knowing their child is receiving the best care. The Heart Center at Orlando Health Arnold Palmer brings together a select group of leading-edge cardiologists and other cardiac specialists to offer expertise in the diagnosis and treatment of infants, children and adults with congenital heart disease. With our close relationship with Orlando Health Winnie Palmer Hospital for Women & Babies, many patients treated in The Heart Center are diagnosed before or at birth and are able to receive immediate care. From routine checkups to complex heart surgery, families from Central Florida and beyond can depend on Orlando Health Arnold Palmer for a wide range of pediatric heart services.

## Numbers Snapshot

Locations	8
New patients	3,365
Patient visits	5,171
Heart surgeries	183
Cath lab cases	345
Size of team	37



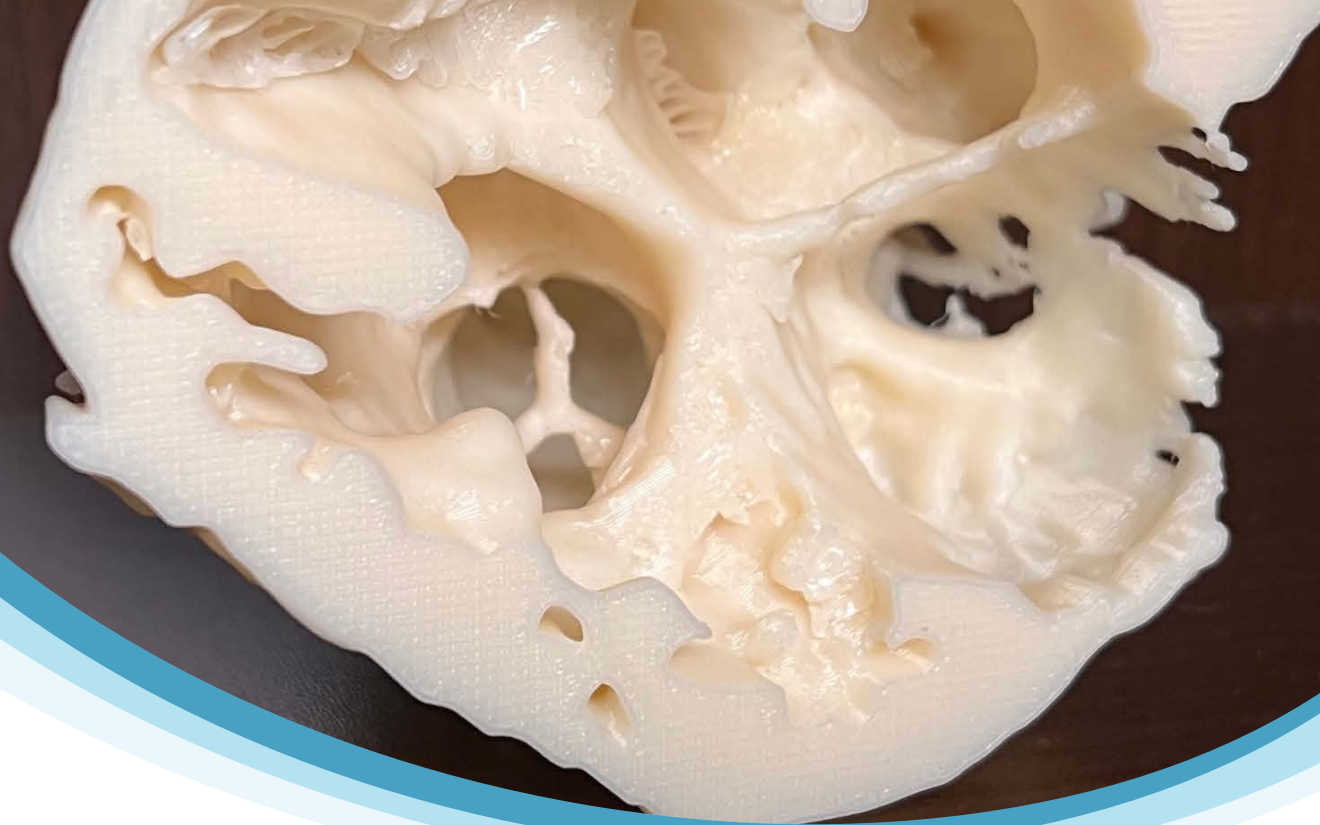
## Highlights

- Orlando Health Arnold Palmer Hospital for Children is the only children’s hospital in Central Florida to be ranked a “Best Children’s Hospital” in cardiology and heart surgery by *U.S. News & World Report*.
  - Ranked for 10 consecutive years
  - Ranked No. 1 in Central Florida for pediatric cardiology and heart surgery
  - Ranked among the top 20 children’s hospitals in the nation for cardiac surgery outcomes
- The Heart Center at Orlando Health Arnold Palmer has the largest team of pediatric cardiac care physician specialists in Orlando. We welcomed a new cardiac surgeon in 2021.
- According to statistics published by the Society of Thoracic Surgeons, Orlando Health Arnold Palmer has the highest volume of complex cardiac procedures in Central Florida, and our 97.7 percent cardiac surgery survival rate is the highest of any pediatric program in Central Florida (January 2015 – December 2018).
- Our Cath Lab offers the Harmony Transcatheter Pulmonary Valve (TPV) System as a catheter-based treatment option for patients with severe pulmonary valve regurgitation. The Harmony is the first FDA-approved nonsurgical heart valve developed for congenital heart defect patients with a native or surgically repaired right ventricular outflow tract (RVOT).
- Pioneering a new treatment protocol for pulmonary vein stenosis.
- Established a pulmonary hypertension program.
- Now offering fetal echocardiography and fetal cardiac consultation at three satellite locations (Celebration, Melbourne and Summerport) in addition to our practice in downtown Orlando. We also provide consultative services to high-risk moms-to-be at Orlando Health Winnie Palmer Hospital for Women & Babies.



## Looking Toward the Future

- The Heart Center is poised to start an Adult Congenital Heart Disease Program. Currently about 15 percent - 20 percent of our patients are adults with congenital heart disease. We are in the process of hiring a medical director to lead the program in partnership with one of our pediatric surgeons who has extensive surgical experience in adult congenital heart disease.
- In partnership with the Orlando Health Winnie Palmer Hospital Center for Maternal-Fetal Medicine (MFM), we will establish a program to offer women with high-risk pregnancies whose baby has been diagnosed with a congenital heart defect consultative services at MFM locations throughout Central Florida.



## Program Spotlight

### 3D Printing for Surgical Planning

The Heart Center has been collaborating with Digital Anatomy Simulations for Healthcare (DASH) in 3D printing. Cardiologists have utilized three different techniques in cardiac MRI as well as cardiac CT angiogram to provide data to the cardiology and cardiothoracic surgery teams. In many cases, we 3D print a whole pediatric heart or part of a heart. This model offers better insight for surgical planning and determining the feasibility of surgical options based on the anatomy of the patient. It also helps increase outcomes and can be an educational tool for the patient and the patient's family.

### Jackson

Born with hypoplastic left heart syndrome, a rare congenital heart defect in which the left side of the heart is severely underdeveloped, Jackson needed immediate care just days after being born. At Orlando Health Arnold Palmer Hospital for Children, Jackson's team of cardiac specialists outlined a plan of care that included a series of three carefully planned, lifesaving surgeries to repair his heart. Strengthened by care from our cardiac experts, Jackson is living a healthy, happy childhood.

*"They really have become like second family...It's nice to know they love your child just about as much as you do."*

— Jackson's parents, Jacqi and Jason

# Craniofacial Surgery

## Numbers Snapshot

Locations	2
New patients	800
Patient visits	1,800
Surgeries	400
Specialty clinics	5
Size of team	16

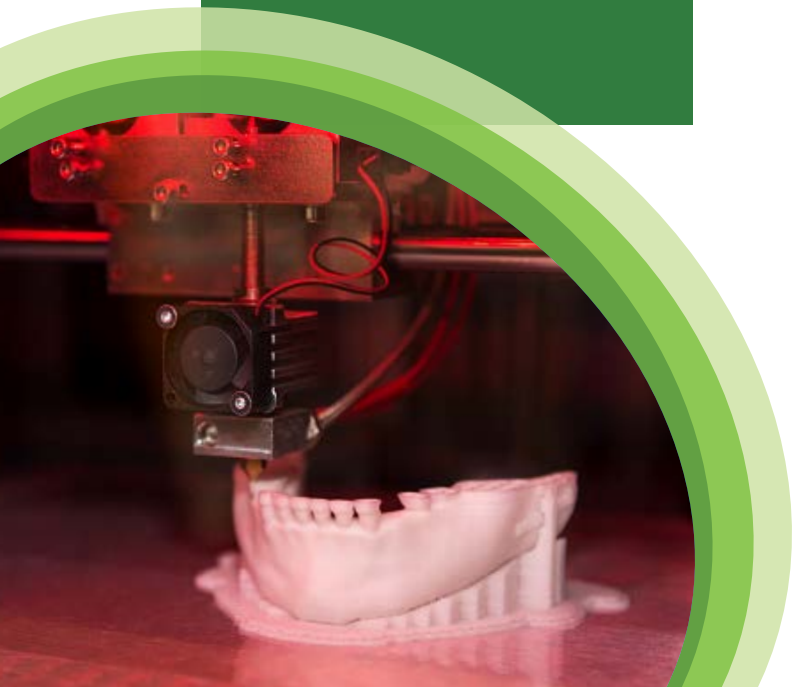
Craniofacial Surgery at Orlando Health Arnold Palmer Hospital for Children is a unique specialty practice led by board-certified and fellowship-trained pediatric craniofacial surgeons providing comprehensive diagnosis, treatment and follow-up care for infants, children and adolescents with a variety of congenital and acquired facial conditions. The surgical team also offers prenatal counseling for expectant parents who have received a diagnosis of cleft lip, cleft palate or head shape abnormality for their unborn baby. In addition to the clinical practice, the surgical team is actively involved in ongoing facial reconstructive surgery research and in the education of residents, medical students and dental students.

## Highlights

- Have the ability to print 3D models including skulls/facial bones. This assists with presurgical planning, deciding on approach and facilitating collaboration with our surgical colleagues. We also can use the models for patient-family education to better understand the anatomy and surgical process/outcomes.
- Orlando Health Arnold Palmer is one of nine facilities in the country to offer a pediatric craniofacial fellowship program. Started in 2009, the fellowship is co-sponsored by Pediatric Neurosurgery, and we are part of the American Academy of Craniofacial Surgeons MATCH.
- Scored in the Top 10% for patient satisfaction all four quarters of FY21.

## Looking Toward the Future

- Planning an expansion of the interdisciplinary Plagiocephaly Clinic to meet the needs of our families facing a plagiocephaly diagnosis.
- Starting a new Feed & Grow Clinic in collaboration with Gastroenterology for babies with cleft lip and cleft palate to further evaluate and treat feeding issues.







## Program Spotlight

### Dedicated Plagiocephaly Clinic

Part of the Leon Pediatric Neuroscience Center of Excellence at Orlando Health Arnold Palmer Hospital for Children, the Plagiocephaly Program features a multidisciplinary clinic run by advanced practice providers and including pediatric craniomaxillofacial surgery, pediatric neurosurgery, physical therapy and cranial orthotics services.

Serving patients in downtown Orlando and in Lake Mary, our experts are trained in evaluating head shape abnormalities. We evaluate children between 3 and 18 months for plagiocephaly, or flat head syndrome, as well as craniosynostosis, which is the premature fusion of one or more bones of the skull.

Providers in the clinic use the STARscanner® Laser Data Acquisition System to determine the severity of head shape abnormalities. The STARscanner is a class 1 laser-scanning device, scanning an infant's head shape in two seconds or less and capturing 3D data that can be viewed in multiple planes. In addition to this advanced diagnostic tool, our clinicians offer education and therapy when appropriate, and provide parents with reassurance that their child is receiving the best care possible.



# Emergency and Trauma

The Bert Martin's Champions for Children Emergency Department & Trauma Center is the first and only facility in Central Florida to provide emergency trauma care exclusively to children. As part of the Orlando Health Orlando Regional Medical Center Level One Trauma Center, Orlando Health Arnold Palmer Hospital for Children provides the highest level of trauma care for the most critically ill or injured children. Designed specifically for the care of children, our trauma center is led by board-certified and fellowship-trained physicians and surgeons supported by an experienced team of skilled pediatric emergency nurses, respiratory therapists and anesthesiologists. The center features state-of-the-art trauma/resuscitation areas and a heliport for quick access to critical care for children transported by the Orlando Health Air Care Team emergency helicopter service.

## Highlights

- Orlando Health Arnold Palmer is the only Level One Trauma Center facility in Central Florida providing dedicated pediatric trauma care.
- Orthopedic surgeons, neurosurgeons and general surgeons specializing in pediatric care are available 24/7 for trauma cases.
- Pediatric radiologists review all images for specialized child-specific care.
- Support all Orlando Health ERs 24/7 with access to immediate consult with our pediatric specialists or emergency transport to Orlando Health Arnold Palmer.
- The Orlando Health Arnold Palmer ER handles 55,000 visits per year.
- The pediatric emergency readiness team developed standardized pediatric emergency response protocols and procedures for all Orlando Health ERs.
- Using a patient simulator, our trauma team has trained first responders in counties across Central Florida, including those in Orange, Osceola, Seminole, Brevard and Volusia counties, to better care for pediatric patients while being transported to our facility.



## Kaden

When 9-month-old Kaden was found floating in the family pool, he was transported to the Bert Martin's Champions for Children Emergency Department & Trauma Center at Orlando Health Arnold Palmer, where he received lifesaving care that gave him a second chance and hope for a bright future.

*"When we were told Kaden was being taken to Orlando Health Arnold Palmer Hospital for Children, we knew we were going somewhere designed to help him. And every single day, we were given some little glimpse of hope."*

— **Kaden's parents, Marissa and Johan**




# Endocrinology and Diabetes

A child's normal growth and development depends heavily on their hormones and the glands that produce them. For children facing pediatric diabetes or other endocrine system disorders, the Endocrinology and Diabetes Center at Orlando Health Arnold Palmer features a multidisciplinary team of board-certified physicians, certified diabetes educators and a dietitian who provide comprehensive evaluation, treatment and management suited to each child's individual needs.

## Highlights

- Our diabetes program continues to excel. The 2021-22 "Best Children's Hospitals" ranking by *U.S. News & World Report* with recognition for Diabetes & Endocrinology includes being ranked among the top 5 in the country for diabetes outcomes. This ranking is based on the percentage of patients who achieve target goals for management and surveillance.
- Our Endocrinology and Diabetes Center offers leading-edge technology in the treatment of diabetes mellitus, including advanced hybrid closed loop systems. The latest in type 1 diabetes care, this artificial pancreas technology uses continuous glucose monitors and smart algorithms to adjust insulin delivery via an insulin pump.
- As a result of COVID-19, the center provided comprehensive diabetes care through telemedicine to ensure continued patient care. Our patients had full access to all diabetes resources, including providers, educators, dietitians and social workers.

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- The center is conducting several groundbreaking clinical trials, including new treatments for growth hormone deficiency. Our program was a clinical site for the recently FDA-approved long-acting growth hormone therapy — the first of its kind since the introduction of human growth hormone in 1985.
  - To better engage the community, our diabetes team co-hosted the inaugural virtual diabetes camp in partnership with Camp Boggy Creek.
  - Our team has expanded to include seven endocrinologists and one nurse practitioner to serve the expanding Central Florida communities.

### **Looking Toward the Future**

- Will continue expanding to new locations throughout Central Florida.
- Will be piloting a multidisciplinary program in partnership with Pediatric Gastroenterology and the Healthy Lifestyles Program, Pediatric Pulmonology and Sports Medicine for overweight children with metabolic complications.



# Gastroenterology

The Center for Digestive Health and Nutrition at Orlando Health Arnold Palmer follows a multidisciplinary approach to care with highly trained specialists collaborating for the most-effective results. Our entire team of physicians is board certified in pediatric gastroenterology and nutrition, and they work together with pediatric nurse practitioners, dietitians, developmental psychologists, nurse coordinators and surgeons to provide the best possible care. Each of these providers has extensive experience in treating children with digestive disorders. Along with offering excellence in clinical care, the center is also committed to teaching and research. We maintain a team of physician scientists and members committed to the creation of new knowledge in the discipline of gastroenterology. Together, we provide comprehensive, coordinated care for each child.

## Highlights

- The Center for Digestive Health and Nutrition is an Inflammatory Bowel Disease Center of Excellence caring for more than 600 patients with the disease. This is due in large part to our participation in the ImproveCareNow Quality Improvement Initiatives for pediatric patients with inflammatory bowel disease.
- The Eosinophilic Esophagitis (EoE) and Allergic Disorders Clinic offers specialized testing, including non-sedated evaluation of EoE activity for more than 400 patients with the condition.
- The center is home to the largest comprehensive neuro-gastroenterology and motility center in the southeast United States with the ability to perform esophageal, antroduodenal and colonic motility as well as Endoflip™ functional luminal impedance planimetry.
- Akash Pandey, MD, achieved board recognition as a Physician Nutrition Specialist®. This prestigious honor is only bestowed on physicians who meet stringent criteria to qualify for the National Board of Physician Nutrition Specialists (NBPNS) certifying exam and pass the rigorous test. He also is certified by the American Board of Obesity Medicine (ABOM) making him a local expert dedicated to offering evidence-based nutrition care to pediatric patients.
- Specialists at the Center for Digestive Health and Nutrition published 11 papers in 2021.

## Looking Toward the Future

- Will begin a multidisciplinary approach to care for cleft palate patients in partnership with our colleagues at Craniomaxillofacial Surgery.
- The center will offer an EoE Nutrition Clinic at our satellite locations to better serve patients throughout Central Florida.

## Numbers Snapshot

Locations	11
New patients	2,566
Patient visits	13,363
Procedures	1,314
Participants in Healthy Lifestyles Program	250
Multidisciplinary specialty centers and clinics	16
Pediatric GI subspecialty programs	10
Size of team	52

# Program Spotlights

## New Treatment Option for IBS Patients

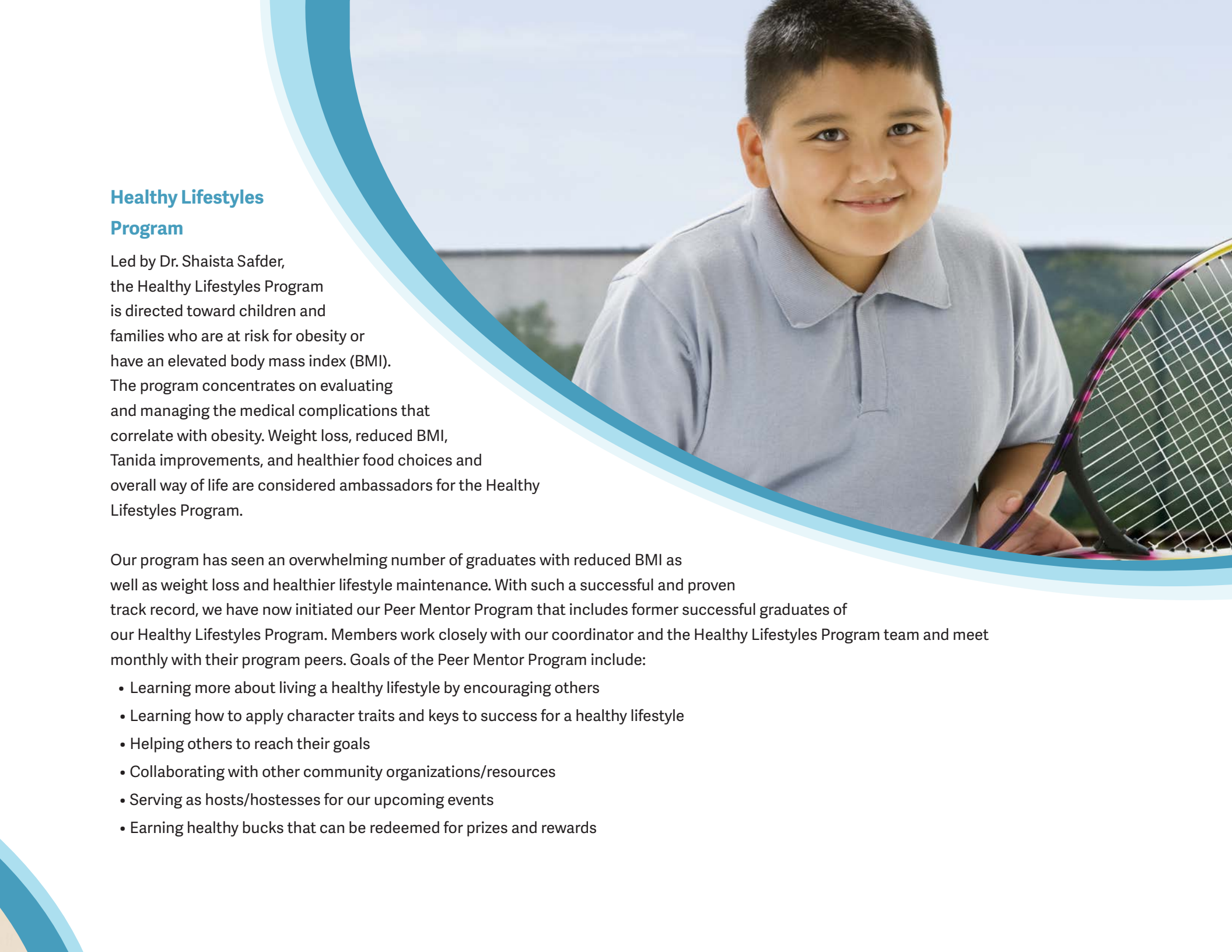
Orlando Health Arnold Palmer is one of the first children's hospitals in the region to utilize the IB-Stim device as a nonsurgical treatment option for patients with functional abdominal pain related to irritable bowel syndrome (IBS). A small device that children wear behind the ear, the IB-Stim device sends gentle electrical impulses into cranial nerve bundles located in the ear. This painless stimulation targets brain areas involved in processing pain and aids in the reduction of abdominal pain associated with IBS. The IB-Stim device provides a new standard of care for IBS patients 11 to 18 years of age, offering a relief from pain and allowing them to return to their normal lifestyle and activities. Our functional abdominal pain patient population currently numbers 200-300 patients.

## New Nutrition Fellowship Program

The Pediatric Gastroenterology, Hepatology and Nutrition Fellowship is a three-year training program offered through Orlando Health Arnold Palmer, Orlando Health Winnie Palmer Hospital for Women & Babies and the University of Florida. The goals of the program are to prepare fellows for a career in pediatric gastroenterology and nutrition, with a focus on excellence in clinical care, teaching, and productive and independent research, stressing the importance of clinical pharmacology and biotechnology. Directed by Dr. Karoly Horvath and managed by the Center for Pediatric Digestive Health and Nutrition, the program is fully accredited by the Residency Review Committee of Accreditation Council for Graduate Medical Education (ACGME).







## Healthy Lifestyles Program

Led by Dr. Shaista Safder, the Healthy Lifestyles Program is directed toward children and families who are at risk for obesity or have an elevated body mass index (BMI). The program concentrates on evaluating and managing the medical complications that correlate with obesity. Weight loss, reduced BMI, Tanida improvements, and healthier food choices and overall way of life are considered ambassadors for the Healthy Lifestyles Program.

Our program has seen an overwhelming number of graduates with reduced BMI as well as weight loss and healthier lifestyle maintenance. With such a successful and proven track record, we have now initiated our Peer Mentor Program that includes former successful graduates of our Healthy Lifestyles Program. Members work closely with our coordinator and the Healthy Lifestyles Program team and meet monthly with their program peers. Goals of the Peer Mentor Program include:

- Learning more about living a healthy lifestyle by encouraging others
- Learning how to apply character traits and keys to success for a healthy lifestyle
- Helping others to reach their goals
- Collaborating with other community organizations/resources
- Serving as hosts/hostesses for our upcoming events
- Earning healthy bucks that can be redeemed for prizes and rewards



#WhatLiftsYou

SHVILL SOCCER CLUB

CONVERSE

# Hematology-Oncology

The Haley Center for Children's Cancer and Blood Disorders at Orlando Health Arnold Palmer is the largest and most comprehensive pediatric oncology and hematology program in Central Florida. We are part of the first national effort of pediatric hospitals collaborating on groundbreaking cancer research, including understanding the genetic make-up of tumors to develop targeted therapies. We are expanding the reach of these lifesaving treatments by creating the largest pediatric clinical cancer research center in Florida.

As a designated member of the Children's Oncology Group (COG), we're able to offer advanced treatment options through clinical research trials and shared learning programs that bring together a wealth of information from around the world. Through our involvement in COG and consortiums such as Beat Childhood Cancer and Pediatric Oncology Experimental Therapeutics Investigators' Consortium (POETIC), we're able to continue providing the most effective treatment options available.

## Our pediatric hematology-oncology services include:

- Brain Tumor Program
- Cancer Survivorship Program
- Developmental Therapeutics Program
- Hemophilia and Thrombosis Treatment Center
- Leukemia/Lymphoma Program
- Oncofertility
- Proton Therapy
- Sickle Cell Disease Program
- Solid Tumor Program

Going forward, the Haley Center for Children's Cancer and Blood Disorders will continue to grow in key areas. The focus will be on delivery of care that is not only innovative but done with the highest standards of safety, honing disease-specific expertise and care, and expansion of developmental therapeutics. As we learn more about the specific drivers of pediatric cancer, we continue to advance our facility's expertise and treatments.

## Numbers Snapshot

Locations	5
New patients	915
Patient visits	11,731
Specialty clinics	4
Size of team	111

## Highlights

- The Haley Center for Children's Cancer and Blood Disorders is the only program in Central Florida with three neuro-oncologists dedicated to diagnosing and treating brain tumors.
- The Pediatric Brain Tumor Program is the only program of its kind in Florida that brings oncology, neurosurgery, proton therapy and a freestanding children's hospital together on one campus.
- Our Hematology-Oncology Program offers more clinical trials for kids than anywhere else in the state, including new trials for children battling blood disorders.
- As a partner of Children's Oncology Group, the world's largest organization dedicated to childhood cancer research, we are a lead site for their autopsy initiative. As a lead site, we collect rare solid tumor tissue and central nervous system tumor tissue from patients who have reached end of life at pediatric hospitals around the globe. We also perform autopsies at Orlando Health Arnold Palmer. We process the tissue samples in our on-site lab, grow cell lines, perform research, analyze the data and share our findings with centers worldwide to find cures for childhood cancers.
- Our Clinic for Young Women with Bleeding Disorders is one of a kind and offers specialized care to teenagers and young adults with bleeding and clotting conditions. This multidisciplinary program is led by specialists from Pediatric & Adolescent Gynecology and Pediatric Hematology-Oncology.
- Offering Central Florida's only designated Hemophilia Treatment Center recognized by the Centers for Disease Control and Prevention (CDC).

## Looking Toward the Future

- In February 2022, the Haley Center for Children's Cancer and Blood Disorders will launch a pediatric Bone Marrow Transplant & Cellular Therapy Program. As medicine advances, stem cell transplants and other cellular therapies have become the treatment of choice for an increasing number of children.
- Develop a multidisciplinary Sickle Cell, Hemostasis and Thrombosis Clinic with experts in hematology, neuropsychology, pulmonology and cardiology.
- Developing a transition program for patients with sickle cell disease and other chronic bleeding disorders. In partnership with the Complex Care and Transition Program at Orlando Health, this program will offer improved coordination of care for pediatric patients entering adulthood.
- Expand collection of data on all pediatric cancer and blood disorder cases diagnosed at the Haley Center for Children's Cancer and Blood Disorders to allow us to measure quality of care, patient outcomes, program development and participate in epidemiological and outcomes research.
- Design more effective therapies that can stop illness before it begins, with research that encompasses all aspects of science from laboratory discovery to clinical research.

# Program Spotlights

## Centers of Excellence - Gift from a Child

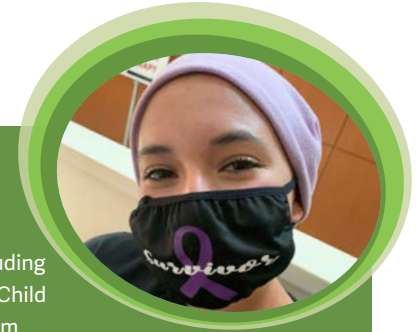
Orlando Health Arnold Palmer Hospital for Children is one of just six Centers of Excellence for Gift from a Child, a national initiative supported by families who have lost children to brain cancer, with a mission to empower brain cancer research through tissue donation. Brain tumors are the second most common type of cancer in children and the leading cause of childhood death. To find a cure, research is needed. But getting tissue samples needed for research is not easy when the disease is in a child's brain. When a child's life ends too soon, Gift from a Child gives families the opportunity to find purpose and honor their child's legacy by donating valuable tissue used in research studies to find a cure.

As a Center of Excellence, Orlando Health Arnold Palmer is able to support families who want to help other children battling cancer. Selected because of our ability to grow cell lines using donated tissue samples, the tissue is collected by the Neuro-Oncology Therapeutic Lab at Orlando Health Arnold Palmer, studied extensively and the data shared through strategic partnerships with Gift from a Child and other medical professionals designed to accelerate breakthrough cancer research, improve treatment options and ultimately cure childhood brain cancer.

*Gift from a Child is an initiative of the Swifty Foundation, which is dedicated to raising funds and awareness for pediatric brain cancer research.*

## Vascular Malformations Program

Orlando Health Arnold Palmer Hospital for Children's Haley Center for Children's Cancer and Blood Disorders has formed a multidisciplinary Vascular Malformations Program for children with congenital or acquired blood vessel abnormalities. Consisting of specialists in over 10 subspecialties, this team is equipped to provide collaborative care utilizing the latest and most advanced techniques and technologies for even the most complex cases. Vascular anomalies comprise a spectrum of disorders, including cutaneous birthmarks, vascular malformations, blood vessel tumors and complex overgrowth syndromes. Often present at birth, these blood vessel abnormalities can cause functional or cosmetic problems with a varying range of severity and complications. Especially severe and progressive lesions can have a lasting impact on these children's lives. While many advances have been made recently in this field, diagnosis and treatment can be challenging and require the expertise of various medical and surgical subspecialties.



### Madison

Diagnosed with stage II-A Hodgkin lymphoma, Madison's life as a typical teenager was put on hold. Thanks to her care team — including pediatric hematology-oncology physician Dr. Robert Sutphin and Child Life Program specialists, who kept her informed but distracted from the scariness of her disease — Madison was able to stay focused on her treatment and recovery. Today, she is cancer-free and an advocate for lymphoma awareness.

*"Dr. Sutphin did a great job with Madison. You can never prepare for it, but at least Madison had an idea of what was going to happen. The compassion that he had with her was incredible."*

— **Madison's dad, Anthony**

*"I always thought, going through this, I would like to be able to help other people going through it because that's what ultimately helped me out."*

— **Madison**



# Infectious Diseases & Immunology

While some childhood infections are fairly common and treatable, others can be highly resistant to common therapies and even can become life-threatening. The pediatric specialists with Orlando Health Arnold Palmer Hospital for Children Infectious Diseases & Immunology are licensed pediatricians with expertise in the evaluation and management of a wide range of complex infectious diseases and illnesses. Our specialists provide compassionate care for newborns, children and adolescents, delivering the right care to restore health as quickly as possible.

## Numbers Snapshot

Locations	4
New patients	219
Patient visits	4,483
Specialty clinics	5
Size of team	6

## Highlights

- Our doctors treat all types of infectious complications of children at Orlando Health Arnold Palmer and Orlando Health Winnie Palmer Hospital for Women & Babies. Because of the large population served, we see many patients and are referred many more from community partners. Their combined clinical experience has benefited the community since 2010.
- Our doctors are very involved in clinical research and postgraduate training for residents, and both providers are recipients of faculty awards.
- Infectious Diseases & Immunology is at the crux of institutional quality and improvement. Our providers have a prominent role in infection control, COVID-19 strategic planning and appropriate antibiotic use via the Antimicrobial Stewardship Program.
- In collaboration with the Florida Department of Health in Orange County Perinatal HIV Program, we have 80-90 active patients under follow-up at any time. The division has received the Trailblazer Community Award for advocacy.
- Our practice has been among top 10 for Orlando Health based on patient reviews.

## Looking Toward the Future

- Conducting clinical studies in collaboration with the Centers for Disease Control and Prevention (CDC) and pharmaceutical companies to understand better the impact of COVID-19 infections in children and to seek treatment alternatives.
- With the increased population of children with immunodeficiencies (primary or acquired), our practice will add a clinical immunologist to expand our immunology consultation service.
- Working to create a Travel Medicine Clinic for pediatric and adult patients.
- Working closely with the Neonatology team at Orlando Health Winnie Palmer to develop strategies to reduce sepsis in the most vulnerable and extreme premature infants.





# Neonatal Intensive Care Unit (NICU)

With a Level III designation, the Neonatal Intensive Care Unit (NICU) at Orlando Health Winnie Palmer Hospital for Women & Babies has developed into one of the largest and most technologically advanced NICUs in the nation, providing the highest level of care for premature and high-risk newborns. In addition to neonatology care, approximately 40 percent of our babies require some type of specialty care — such as surgery, cardiac, ENT, genetics, neurosurgery, etc. — from our physicians at Orlando Health Arnold Palmer. In a unique partnership, Orlando Health Arnold Palmer has a wealth of expert pediatric specialists ready to deliver care in a broad spectrum of services to make sure NICU babies get the top care. Located just across the street and connected by an enclosed walkway, Orlando Health Arnold Palmer provides on-site care for NICU babies with virtually any medical condition, as well as follow-up and ongoing care for our NICU graduates.

Numbers Snapshot	
Beds	142
Discharges	1,420
Babies treated since the opening of the NICU	51,420
Babies staying more than a week	73%
Average length of stay	30 days
Babies requiring specialty care in addition to care by neonatologists	40%
Percentage of multiples	30%
Size of team	450



## Highlights

- Our NICU recently completed a six-month process to refine and standardize the protocols we utilize to resuscitate 22- and 23-week infants. This is unique to Orlando Health Winnie Palmer as many other NICUs do not have the ability and expertise to resuscitate 22-week infants. This standardization is increasing the survival rate of micro preemies, babies born before 25 weeks, and doing so without complications from being premature.
- Our unit has earned a silver Beacon Award for Excellence in nursing practice.
- Our NICU was named an ELSO gold level Center of Excellence in Extracorporeal Life Support.
- Our extracorporeal membrane oxygenation (ECMO) program maintains the ECMO Center of Excellence award.



### Diana

Born on Mother's Day at 22 weeks and 4 days gestation, Diana weighed just 12 ounces and was only 9 inches long. Termed a micro preemie, the odds were against Diana. Most babies born this early and small have a nearly impossible chance of survival. Diana never needed any lifesaving surgeries — just time and care from the team of experts in the NICU.

To stay positive throughout their daughter's journey in the NICU, Jomary and Federico took things one day at a time. They didn't focus on her future, but rather on short-term goals and meeting milestones. After 179 days in the NICU, Diana was discharged home, becoming the tiniest baby to ever graduate from our NICU. In fact, according to the University of Iowa's Tiniest Baby Registry (which keeps a running list of reported cases of smallest surviving babies), Diana will join a group of only 10 babies in the world recorded to have survived at her size and gestational age.

*"I owe them my baby's life. Everything has been great."*

— **Jomary, Diana's mom**

# Nephrology

Caring for Central Florida children since 2011, the Hewell Kids' Kidney Center is the only hospital-based pediatric nephrology center in our region, and about 5,000 children visit the center annually. Our skilled and compassionate team specializes in helping children with end-stage kidney disease, metabolic bone disease, obesity-related kidney disorders, systemic lupus nephritis, kidney transplantation preparation and post-transplant care as well as acute kidney failure in newborns and more.

## Highlights

- Since opening, the Hewell Kids' Kidney Center has performed over 7,216 hemodialysis treatments and over 4,015 days of peritoneal dialysis.
- More than 155 children on dialysis have visited the center from across the U.S.
- In total, approximately 53 of our patients have undergone transplantation.
- Maintained Top 10% in the U.S. for performance in significant patient dialysis treatment metrics.
- The center is a participant in the National Children's Hospital Association's Standardized Care to Improve Outcomes in Pediatric End-stage Kidney Disease (SCOPE) collaborative, which is focused on identifying and sharing effective interventions to prevent infections in children and adolescents on peritoneal dialysis and hemodialysis and was instrumental in creating the Transition project.
- Our Hewell Kids' Kidney Center team created a support group for children and families now recognized as an important component of the model dedicated to the treatment and care of this patient population.
- The center has received recognition from the Centers for Disease Control and Prevention for 1,000-plus days without a CLABSI (central line-associated bloodstream infection).
- Our team has had six abstract "posters" presented and published in internationally recognized journals and conferences.

## Numbers Snapshot

Locations	4
New patients	761
Patient visits	4,903
Specialty clinics	4
Size of team	18



## Program Spotlight

### Outpatient Pheresis Treatment Options

After establishing a dedicated dialysis team and outpatient hemodialysis unit, the Hewell Kids' Kidney Center is now able to offer pheresis treatment options, such as red blood cell (RBC) exchanges and plasmapheresis, as outpatient procedures. Providing these treatments in an outpatient setting offers convenience and ease of access, which is very helpful to our patients due to the chronic nature of their disease.

Outpatient RBC exchanges are primarily ordered by an oncologist and are provided once every 4-6 weeks, depending on the patient's disease, to prevent sickle cell crisis. Plasmapheresis is primarily ordered by a nephrologist for patients who are newly transplanted and have recurrence of focal segmental glomerulosclerosis (FSGS). Plasmapheresis is not only for patients who have received a kidney transplant; it can be used for other disease processes as long as the patient is stable. For example, we have administered plasmapheresis treatments for a nephrotic patient who was not responding to medication therapy and another who was rejecting kidney transplant (post-transplant seven years).

Providing these treatments in an outpatient setting offers convenience, ease of access and reduced financial burden, which are very helpful to our patients' families due to the chronic nature of the disease. It's also beneficial because patients can establish rapport with the nurses, receive 1:1 care and return home right after treatment provided there are no complications.



# Neuroscience

The Leon Pediatric Neuroscience Center of Excellence at Orlando Health Arnold Palmer Hospital for Children is one of the most comprehensive pediatric neuroscience programs in Central Florida, offering expertise in all subspecialty areas of pediatric neurosciences. Our multidisciplinary team of world-renowned experts utilize state-of-the-art evaluations and procedures specialized for young people, so that these children have a fair chance to develop to their full potential. Our pediatric specialties include:

- Behavioral Health and Development
- Neurology
- Neurosurgery
- Neuropsychology
- Physical Medicine and Rehabilitation

## Numbers Snapshot

Locations	13
New patients	3,493
Total patient visits	12,152
Hospital consults	4,969
Surgeries	274
Specialty clinics	10
Size of team	50

# Program Spotlights

## Fetal Spina Bifida Surgery

In collaboration with the Leon Pediatric Neuroscience Center of Excellence, the Fetal Care Center at Orlando Health Winnie Palmer Hospital for Women & Babies is dedicated to helping families when prenatal conditions are diagnosed. Our experienced neurosurgeons and maternal-fetal specialists perform innovative procedures that include repairing the most severe form of spina bifida. Only a few hospitals in the United States can perform this type of open fetal surgery — we were the first and remain the only one in the state of Florida. Our team's expertise and experience have produced consistent, positive outcomes for babies with spina bifida, and our program continues to flourish, with 29 surgeries now completed since the program's inception in 2018. We have recently added innovative 3D printing technology to help surgeons prepare for surgery on unborn babies. Created based on ultrasound and MRI imaging, incredibly lifelike 3D-printed models enable the surgeon to see a model of the fetus that truly represents the actual condition of the baby. With the ability to predict any challenges or complications beforehand, this new technology helps to ensure a safe and effective surgery.



### Jessica & Parker

With expert monitoring following in utero surgery for her unborn son's spina bifida, Jessica was able to carry her baby to the milestone 37-week mark. The surgery was so successful that baby Parker was able to go home after just two days, without needing a stay in the Neonatal Intensive Care Unit (NICU).

*"I've never had such great care than the guidance and love provided by my fetal care team."*

— Parker's mom, Jessica



## Epilepsy Monitoring Unit

Orlando Health Arnold Palmer's comprehensive Neuroscience Center of Excellence includes state-of-the-art technology and innovation across a range of specialties and neurological conditions, including epilepsy.

Each year, Orlando Health Arnold Palmer cares for more than 2,000 children who are being monitored for epilepsy. Our epilepsy program is designated as a Level 4 Epilepsy Center by the National Association of Epilepsy Centers, which means that patients have access to the most advanced technology and solutions available to care for all conditions on the epilepsy spectrum, including epilepsy surgery. A total of 12 pediatric epilepsy surgeries have been performed during 2021.

With philanthropic support, Orlando Health Arnold Palmer has been able to advance our Epilepsy Monitoring Unit (EMU) with upgraded equipment and the most advanced technology available. Phase 1, which included equipment upgrades to the most modern EEG and epilepsy monitoring equipment at a cost of \$2.5 million, has been completed. This provides families and doctors with comprehensive evaluation that results in precise diagnostics, especially critical for patients with hard-to-manage, complex seizure disorders. A phase 2 upgrade will include renovations of the EMU and will be completed between January and May 2022. Our goal is to significantly enhance the patient experience and improve quality of life and outcomes by increasing ease of access to life-changing care.



### Iris

After unexplained seizures and behavioral symptoms, Iris was admitted to the Epilepsy Monitoring Unit. Expert evaluation led to a diagnosis of a rare autoimmune disease attacking her brain. Iris continues to receive lifesaving follow-up care.

*"It was because of little things and special moments that I knew we were in the right place. I'm so glad we chose Orlando Health for Iris and for our family."*

— Iris's mom, Omaira





### **A New Robotic Surgical Assistant in Epilepsy Surgery**

The Leon Pediatric Neuroscience Center of Excellence provides advanced epilepsy surgical procedures using leading-edge technology that involves an array of depth electrodes. The Robotic Surgical Assistant (ROSA™) was used for the first time during an epilepsy surgery in April 2021 at Orlando Health Orlando Regional Medical Center (ORMC). This surgery was very successful as the child is now seizure-free. ROSA helps to place the electrodes that are inserted into specific targets using stereotactic placement. This allows for results that are less invasive and helps cover a larger portion of the brain tissue. The use of ROSA has been proven to have many advantages when used in epilepsy surgery. Specifically, ROSA provides more precise localization of the electrodes to identify the source of the seizures, which results in superior long-term outcomes and alleviation of seizures. Additional benefits include significantly less complications because the patient would not need multiple open craniotomies, extended length of recording time, and markedly reduced risk of infections.



# Orthopedics

The Orlando Health Arnold Palmer Hospital Center for Orthopedics consists of board-certified and fellowship-trained orthopedic surgeons as well as a team of skilled specialists offering a variety of inpatient, outpatient, diagnostic and rehabilitation services to ensure every condition – big or small – is always treated with the most-advanced care possible. Our specialty practice is home to the EOS Imaging System, Central Florida's first and only ultra-low radiation dose, 3D, full-body imaging technology for pediatric patients. Children with scoliosis or hip dysplasia who require frequent imaging can especially benefit from this system, which performs a full 3D body image with only a fraction of the radiation traditionally used in X-rays and in less than four minutes.

## Areas of specialized care include:

- Musculoskeletal injuries
- Scoliosis and spinal injuries
- Hip disorders
- Hand surgery
- Trauma
- Sports injuries
- Limb deformities
- Clubfoot
- Congenital disorders

## Numbers Snapshot

Locations	4
New patients	7,896
Average patient visits per year	16,689
Orthopedic surgeries	1,130
Specialty clinics	4
Size of team	20



## Highlights

- Our Center for Orthopedics developed a multimodal pain management strategy for spinal fusion patients that demonstrated an overall decrease in the use of postoperative narcotics.
- Our program is pioneering the development of novel fixation techniques in the management of bladder exstrophy by combining surgical procedures with urology. Novel fixation techniques are the use of subcutaneous internal fixation (INFIX) versus external fixation (EXFIX) for pelvic stabilization. Because there are no external pins, there is decreased risk of infection and pin-site irritation, which also makes sitting easier.
- Our program has made advancements in the Hip Preservation Program by combining arthroscopic management and joint preservation osteotomies into one procedure rather than two separate surgeries with different surgeons.
- Our program participates in multiple international study groups including the International Hip Dysplasia Research Group, Pediatric Cervical Spine Study Group and The Children's Spine Foundation, which allows us to combine data with other institutions around the world involving low-event diseases to better understand pathology and best procedures.



# Program Spotlight

## Brachial Plexus Multidisciplinary Clinic Expands Services

Pediatric Orthopedics at Orlando Health Arnold Palmer continues to expand services at the Brachial Plexus Multidisciplinary Clinic with office visits that incorporate Pediatric Orthopedic Surgery, Hand Surgery, Pediatric Neurosurgery, Physical Medicine and Rehabilitation, and Occupational Therapy with single-event multidisciplinary surgeries. These complex surgeries are not performed anywhere else in the state, providing a referral source for the entire Southeast region.



### Esther

Moving to the Central Florida area after serving as missionaries in Mexico, Esther's parents felt blessed to find a care team at Orlando Health Arnold Palmer who took the time, care and resources to fully focus on Esther's well-being. They plan to stay in Florida as long as Esther, who was born with multiple abnormalities, needs regular care because this is the team they trust to deliver the most-individualized care.

*"Every single time, her care is very specific and unique to her and that's huge. That's what every hospital promises, but actually being a witness and seeing it happen ... we can trust that she really is in good hands."*

— **Esther's parents, Alex and Bill**



# Rehabilitation

Central Florida's leader in pediatric rehabilitative care, the Pediatric Rehabilitation Program at Orlando Health Arnold Palmer offers a child-friendly environment for a full range of pediatric rehabilitation services guided by compassionate and skilled occupational, physical and speech therapists. Our therapists work with children through both our acute care and outpatient therapy programs, providing them with the tools needed to improve function and maximize potential.

# Outpatient Rehabilitation

## Highlights

- Our rehab team is involved in 24 multidisciplinary clinics led by our specialty physicians.
- Increased presence of our speech therapists with our craniofacial specialty physicians to offer consultation and education for babies with cleft palate and tongue ties.
- Our new Complex Tics Clinic and Chronic Headache Clinic provide multidisciplinary resources to offer children relief and improved outcomes.
- As part of a rehab continuum, we are seeing more adults with diagnoses that fit the expertise of our pediatric therapists, such as spina bifida and cerebral palsy. These individuals have lifelong wheelchair and adaptive-equipment needs. One of our occupational therapists with expertise in wheelchair seating and positioning has been working with our adult rehab team to share expertise and help provide the best care for our patients.

## Numbers Snapshot

Locations	2
Patient referrals	7,440
Total patient visits	57,568
Therapy sessions per day	228
Daily size of team	39

## Program Spotlight

### Constraint Induced Movement Therapy

Constraint induced movement therapy (CIMT) is a technique we employ to help children with a hurt arm improve functional use, so they can be more independent in play and daily routines. We follow a family-centered approach that incorporates using a lightweight cast that is applied to the child's non-affected arm. The child participates in play-based therapeutic activities to facilitate improved use and functional movement of the weaker arm.





## Feeding Difficulties Center

The Feeding Difficulties Center, a pediatric rehabilitation specialty program, offers the most comprehensive assessment of feeding difficulties in Central Florida, supporting families through a multitude of feeding challenges such as food allergies, chewing or swallowing problems, digestion issues or picky eaters.

### Numbers Snapshot

New patients ————— 4,219  
Size of team ————— 7

### Looking Toward the Future

- Starting a virtual support group for parents of children with feeding difficulties.
- Expanding our services to infants with a history of prematurity or cardiac issues who are having difficulty transitioning to solid foods, placing them at risk for needing a G-tube. The center will provide early intervention with intensive therapy to ensure success with eating.



## Penelope

After surgery to correct bilateral corneal opacity that caused Penelope to be born blind, she suffered complications and side effects that led to long-term gastrointestinal and feeding issues. The team at the Feeding Difficulties Center put together a customized, multifaceted plan to help Penelope overcome her feeding hurdles.

*"I felt like they were understanding my daughter's needs and my fears and concerns. They were helping me deal with those fears by giving me proper therapies and proper treatment plans, so we were working together."*

— Penelope's mom, Anne



# Surgery

Orlando Health Arnold Palmer Surgery offers a comprehensive range of surgical services, from general surgery to specializations such as neonatal surgery, surgical oncology, thoracic surgery and complex liver and lung operations. Our multispecialty team, including board-certified, fellowship-trained surgeons, are skilled in the most effective surgical methods and technologies, including minimally invasive procedures for pediatric patients of all ages, from newborns to teenagers.

Our experienced surgeons have been dedicated to pediatric healthcare for nearly 30 years and proudly lead the surgical program at Bert Martin's Champions for Children Emergency Department & Trauma Center at Orlando Health Arnold Palmer Hospital for Children, part of the only Level One Trauma Center in Central Florida.



## Adalynn

Born with acute gastric reflux and lower GI constipation and bloat, Adalynn was experiencing severe symptoms, vomiting as many as 200 times a day.

Under the care of doctors at Orlando Health Arnold Palmer, Adalynn was diagnosed with abnormally high pH levels in her stomach and underwent hiatal hernia surgery and a Nissen fundoplication. With immediate results, Adalynn is now able to eat and keep food down, going from "failure to thrive" to healthy and meeting her goals.





## Highlights

- Orlando Health Arnold Palmer has achieved Level 1 Children’s Surgical Verification and Level 1 Trauma Verification by the American College of Surgeons in recognition of the high level of pediatric surgical care we provide. We are one of a select number of pediatric hospitals in the nation — and the only facility in Florida — to achieve this level of excellence.
- Our program offers single-site laparoscopic surgery and other minimally invasive surgery options. Specialized procedures include:
  - Minimally invasive approach to chest wall deformity repair
  - Minimally invasive technique for pilonidal management involving endoscopic approach with punch biopsy
- Our team offers laser hair removal to treat pilonidal cyst disease.
- Our advanced care includes xenografts, which are biologic dressings, for burn management.
- Our program is providing multidisciplinary care at the Orlando Health Winnie Palmer Hospital Fetal Care Center for prenatal anomalies, including congenital diaphragmatic hernia (CDH), gastroschisis, congenital pulmonary airway malformation (CPAM), omphalocele and more, in partnership with the Center for Maternal Fetal Medicine.
- Pediatric Surgery recently added a nurse practitioner to our expert team of providers.
- Our team is actively participating in research and presentations at national meetings for pediatric surgery, burns and trauma.

## Looking Toward the Future

- Expanding our team of providers with one additional pediatric surgeon.
- Our team will be establishing a multidisciplinary approach to pelvic floor reconstruction in collaboration with Urology.

## Numbers Snapshot

Locations	4
New patients	1,568
Patient visits	4,192
Surgeries	1,772
Most common surgeries (not necessarily in this order):	
<ul style="list-style-type: none"> <li>• Minimally invasive surgery</li> <li>• Traumatic injuries</li> <li>• Neonatal intestinal anomalies</li> <li>• Thoracic surgery (including chest wall reconstruction, tumors and congenital anomalies)</li> <li>• Inflammatory bowel disease surgery</li> </ul>	
Ratio of complex to routine surgeries	2:3
Multidisciplinary clinics supported	3
Size of team	9

# Transport Services

Since 1995, Orlando Health Arnold Palmer has provided inter-facility transport services for both critically ill and non-critically ill children, helping expand our care beyond Central Florida. Our acute and critical care transport teams offer highly specialized services to referring hospitals, 24 hours a day, seven days a week.

Mobile Intensive Care Units do not arrive on the scene of accidents, but instead, transport patients from referring hospitals to Orlando Health Arnold Palmer. Our Acute Care Transport team comprises registered nurses, paramedics and EMTs trained to care for children of all ages. And our Critical Care Transport team is composed of highly specialized registered nurses and respiratory therapists with advanced knowledge in pediatric critical care. This team provides rapid stabilization and safe transport by air and ground to critically ill patients to the Orlando Health Arnold Palmer Critical Care Unit.

Orlando Health Arnold Palmer's acute and critical care transport services provide transport for a wide range of conditions. Some common reasons for a patient to be transported to Orlando Health Arnold Palmer are respiratory distress, seizures, trauma, submersion, head injuries, cardiac abnormalities and acute allergic reactions.

## Numbers Snapshot

Transports	—————	<b>2,269</b>
Transport vehicles	———	<b>5</b>
Transport helicopters	—	<b>4</b>
NICU transports	—————	<b>156</b>

# CHILDREN'S EMERGENCY



ORLANDO  
HEALTH  
ARNOLD PALMER  
HOSPITAL  
For Children

PEDIATRIC CRITICAL  
CARE TRANSPORT  
AMBULANCE



### Numbers Snapshot

Locations	9
New patients	2,181
Patient visits	4,959
Surgeries	895
Specialty clinics	2
Size of team	8

# Urology

Orlando Health Arnold Palmer Urology provides comprehensive care to address reproductive system and urinary tract concerns in children. Our pediatric urologists, who are board certified in urology and have additional subspecialty fellowships and certifications, offer the full spectrum of assessment, diagnostic and treatment services. Beyond expertise in routine pediatric urology care, we also offer highly specialized urology programs that provide support for a variety of urological conditions to include the Pediatric Stone Center, Bladder Control Program, Spina Bifida Clinic, Treatment for Disorders of Sexual Differentiation and Minimally Invasive Surgery Program.

# Minimally Invasive Robotic Surgery

Our pediatric urologists work together with parents and children and are committed to providing the least-invasive treatments available. Orlando Health Arnold Palmer performed the first pediatric robotic urology surgery in Central Florida 15 years ago. Since then, we have been leading the way in pediatric robotic urology surgery in the region. Compared to conventional surgery, which uses a long incision, or other minimally invasive techniques such as laparoscopy, robotic surgery offers significant benefits for our smallest patients, including:

- Smaller incisions
- Less scarring
- Less blood loss
- Less pain and discomfort
- Shorter hospital stays
- Fewer complications
- Faster recovery time (often reduced from weeks to days)

## Highlights

- Our highly trained team has performed more than 1,100 robotic urology procedures for children – the most of any facility in Central Florida.
- Our robotic surgeries are performed using the da Vinci® Surgical System.
- Pediatric Urology works closely with the Orlando Health Advanced Robotics Surgery Center, Central Florida's largest robotic surgery program, and perform more procedures than any other program in the area.
- Our experts perform an array of robotic surgery procedures, including ureteral reimplantation, pyeloplasty, nephrectomy, partial nephrectomy, appendicovesicostomy, bladder augmentation, antegrade continence enema and excision of the urachus.
- Orlando Health Arnold Palmer is named a "Best Children's Hospital" in urology by *U.S. News & World Report*, making us the only hospital in the region with this distinction that offers robotic surgery.



### Zoe

As her bouts of pain increased in frequency and intensity, Zoe's parents sought help from Orlando Health Arnold Palmer, where pediatric urology specialists were able to diagnose her condition and perform a robotic surgical procedure to repair a valve connection, improving Zoe's bladder and kidney function.

*"They listened and didn't think I was crazy,"*

— **Zoe's mom, Graham**



# Healing Beyond Our Walls

Our role in the community extends beyond our hospital walls. As part of the Orlando Health family of care, Orlando Health Arnold Palmer is committed to making health and wellness accessible to the broader Orlando and Central Florida community.

## Community Involvement

Throughout Central Florida, in many ways, we strive to improve the lives of the individuals and communities we serve. Through our community outreach efforts, we meet identified health needs, particularly among vulnerable and underserved communities.

These outreach efforts include events such as health screenings, health fairs, support groups, wellness activities and sponsorship of other community events. We're proud to partner with organizations that share our mission of improving health and quality of life in the communities we serve, such as:

- Camp Boggy Creek
- Children's Miracle Network
- Florida Association of Children's Hospitals (FACH)
- Give Kids the World
- Make-A-Wish Foundation
- Children's Hospital Association
- Ronald McDonald House

## The Howard Phillips Center for Children & Families

As a part of Orlando Health Arnold Palmer Hospital for Children, The Howard Phillips Center for Children & Families provides critical services that help protect and heal the most vulnerable children and families in our community. The six programs that make up the center rely heavily on public and philanthropic support to provide this vital care.

### Children's Advocacy Center

This group of programs includes the Child Protection Team, Child Advocates and The Healing Tree, which provide a compassionate and coordinated community response to physically and sexually abused children in Central Florida to reduce trauma and repeated abuse to children.

#### The Healing Tree

This leading mental health treatment program for victims of child abuse in Central Florida provides individual, group and family therapy for children (ages 3-18) who have been victims of abuse and their family members.

#### The Child Protection Team

This multidisciplinary team of professionals in Orange and Osceola counties provides expert assessments of child abuse and neglect cases, enabling these children to receive the services that ensure their protection and healing from trauma.

### Teen Xpress

This mobile health unit provides free medical and mental health care for at-risk youth — giving vulnerable teens a safe and private medical touchpoint.

### The Developmental Center for Infants & Children/Early Steps

This early intervention program provides specialized services for young children who have developmental delays or special needs in Orange, Osceola and Seminole counties.

### Healthy Families

This home-visitation program offered in Orange and Osceola counties is based on the national Healthy Families America model that prevents child maltreatment and builds healthy, positive parenting skills for new mothers and fathers through education, referrals and resources.





## Highlights

- From March to May 2021, our Children’s Advocacy Center saw a 71 percent increase in the number of children abused so severely that they required hospitalization. Our team continues to provide these children with the assessment, support and advocacy they deserve. We will always be a voice for them.
- With many families out of work, the number of uninsured teens has risen during the pandemic. With an increase in food insecurity as well as higher demand for mental health counseling, Teen Xpress has provided a lifeline for those parents unable to meet the needs of their families and seeking medical care for their children.
- The Developmental Center for Infants & Children/Early Steps has seen a 14 percent increase in Family Care Coordination services since April 2021. Our team continues to provide information, referrals and basic needs at this most critical time of early development.
- Healthy Families has maintained a 98 percent success rate in preventing abuse — even during the pandemic. This evidence-based model for the promotion of child well-being and prevention of abuse offers intensive home visits and support services (now virtually) to overburdened families with newborn babies in targeted zip codes in Orange and Osceola counties.



## Injury Prevention

Because many children's injuries can be prevented, Orlando Health Arnold Palmer's Injury Prevention team is dedicated to reaching out to the community, parents, caregivers and children to provide safety education and resources to help prevent these injuries. In 2021, we served 4,591 children and families, providing education on various injury prevention topics.

COVID-19 brought a stop to in-person events, and our team had to learn how to navigate a more virtual world of education. While we have seen a decrease in the number of pedestrian traffic incidents and playground falls because of shutdowns, we know these numbers will increase again, and we are focused on exploring innovative ways to ensure children, as well as parents and other caregivers, are receiving the necessary education and tools to be safe.

### Event Highlights

- Best Foot Forward crosswalk safety events with local police officers
- Virtual Parent Chat classes held through Orlando Health Winnie Palmer, educating moms on injury prevention topics
- Car seat checkpoints in community and at Orlando Health Arnold Palmer through 1-on-1 appointments
- Special needs car seat evaluations, promoting safe travel for all children
- In-hospital education for traumatic injury patients and families
- Virtual Parent Support Group injury prevention education through Healthy Families Orange
- Bike helmet-fitting and education events throughout surrounding counties
- Trunk or Treat event at the Children's Safety Village

### Action Highlights

- Forming partnerships with groups from the Florida Department of Health in Orange County, Children's Safety Village, Boys & Girls Clubs of Central Florida After School Zone for Middle School, After School Zones - Orange County, YMCA After School Zones, Food for Thought Café: Orlando Science Center, Orange County Library System and Florida Vacation Rental Management Association to provide injury prevention education along with tangible educational resources
- Through our partnership with the Florida Vacation Rental Management Association, we were able to provide drowning prevention resources to be included in their rental properties across the Central Florida area to try and combat the high number of drownings we have seen in the past year
- Spreading the word of drowning prevention through local and national media outlets
- Partnered with Swim Life who was able to create drowning prevention flyers and Water Watcher Tags to promote safe swim practices
- Partnered with local Fire Rescue Departments and provided them with drowning prevention materials to be handed out when they go on calls
- Created an injury prevention brochure to be distributed to each trauma patient that visits us
- Created a car seat brochure and video to be distributed in the community and in our ER to promote accurate car seat installations and harnessing practices

### Looking Toward the Future

- Continue partnership with Boys & Girls Club After-School Zones for Middle School in Orange County to educate all the children in their locations on multiple injury prevention topics including proper helmet use, drowning prevention, burn prevention, pedestrian safety and proper seat belt use.
- Continue partnership with Safe Kids Orange County Coalition, who received a “Buckle Up for Life” grant. Orlando Health Arnold Palmer, along certified child passenger safety technicians, will offer educational classes and car seat installation help to Central Florida families. Orlando Health Arnold Palmer will provide more than 400 car seats and 80 booster seats to families in need.
- Partner with Center for Women’s Health at Orlando Health South Lake Hospital to provide car seat checks by certified child passenger safety technicians in the Lake County area.



# Research Funding / Clinical Trials

The Corporate Office of Research Operations (CORO) is responsible for supporting investigators and administrators in research by managing research projects and clinical trials. CORO processes approximately 200 applications annually for Orlando Health. The goal of CORO is to create an outstanding climate of support for Orlando Health researchers, enabling exceptional research advances.

The research environment of clinical trials involves faculty and collaboration across multiple departments at Orlando Health. Research activities include the design, conduct and analysis of clinical trials. Thanks to expanded research and advanced clinical trials, we are able to offer leading-edge treatments for renewed hope and better outcomes. Orlando Health Arnold Palmer has numerous active clinical trial studies that allow our patients to gain access to new research treatments before they are widely available. While all clinical trials have participation guidelines, participants in clinical trials are allowed to play a more active role in their own healthcare and help others by contributing to medical research.

## Highlights

- Amy Smith, MD, chief of pediatric hematology/oncology and director of pediatric neuro-oncology at the Haley Center for Children's Cancer and Blood Disorders, has led a landmark clinical trial through Children's Oncology Group for children with a rare brain tumor. In the largest clinical trial – ACNS0831 – conducted in the world for children newly diagnosed with intracranial ependymoma, early results show a group of children benefit from adding chemotherapy to the current standard treatment. The trial began in 2010 and tracked 500 patients for 10 years.
- The Leon Pediatric Neuroscience Center of Excellence is one of only two sites in the state of Florida to participate in NIH-funded ESTHI trial. The trial studies different surgical management options for babies with hydrocephalus. Orlando Health Arnold Palmer has enrolled three infants in the study and will follow their care for five years. Naina Mehta, MD, behavioral health & development specialist, is studying oral and nasal microbiome alterations in children with autism. Early results show a bacteria that affects the brain, and if changed, could reduce adverse effects of the disease.
- The Center for Digestive Health & Nutrition has initiated three clinical trials led by providers at Orlando Health Arnold Palmer. Devendra Mehta, MD, is studying the use of Preksha meditation and yoga as a non-pharmaceutical treatment to revert gut flora in patients with functional abdominal pain. Yamen Smadi, MD, is leading a trial to establish esophageal brushing as a non-invasive test for Eosinophilic Esophagitis. In partnership with the Orlando Health Arnold Palmer Hospital GI Translational Laboratory, early results show a reduction in the need for extensive endoscopy. The team has a patent pending on the brush. Justin de Boer, MD, in partnership with the Orlando Health Arnold Palmer Hospital GI Translational Laboratory, has developed a novel test using rectal swab that shows food allergies in kids based on a biomarker. The results may lead to the availability of a test to reduce the need for sigmoidoscopy, biopsy and diet changes without confirmed etiology.

# Caring for the Whole Family

Recognizing that a child's hospitalization can present many challenges for the child and family that go beyond the physical illness, Orlando Health Arnold Palmer offers several programs within our Children's Services and Community Engagement department that provide unique therapeutic and personal support to patients and their families for the best possible hospital experience.

## Child Life Program

Our Child Life Program was created to help children learn stress management and coping skills needed to help them through their hospital experience. Specially trained in psychosocial and child development, our certified Child Life Specialists focus on helping to reduce the stress and uncertainties of a medical encounter by providing individualized care — including education, play and personal support — based on each child's age, development, background, temperament and past medical experiences.

## Music Therapy

As a research-based and complementary treatment option, music therapy can aid in promoting the general wellness and healing of hospitalized children. Our specially trained and board-certified music therapists use a variety of interventions throughout a child's treatment and recovery, including instrumental play, music/lyric composition and music improvisation, to help in managing stress, alleviating pain, expressing feelings, enhancing memory and improving communication.

## Patient Academics

To help reduce the added stress that extended or unplanned time away from school can create, Orlando Health Arnold Palmer offers academic support through a certified, on-site teacher who can assist families in understanding and navigating the various options for receiving hospital/homebound instruction through the public school system or with virtual schooling. Our goal is to help children and teens stay on track academically with as normal as possible educational opportunities throughout their medical journey.

## Spiritual Care

Our Spiritual Care services are available to all families, 24/7/365 — from offering prayers and sharing scripture readings to simply lending a listening ear. We consider our hospital chaplains integral members of the healthcare team, providing clinical spiritual care that offers patients and families a calming presence and safe place during what can be a difficult time.

## The Seacrest Studios

Through a partnership with the Ryan Seacrest Foundation, Orlando Health Arnold Palmer is one of only 11 pediatric hospitals in the U.S. — and the only one in Florida — to host an innovative Seacrest Studios location enabling us to support our patients' creative and artistic needs through radio, television and new media.

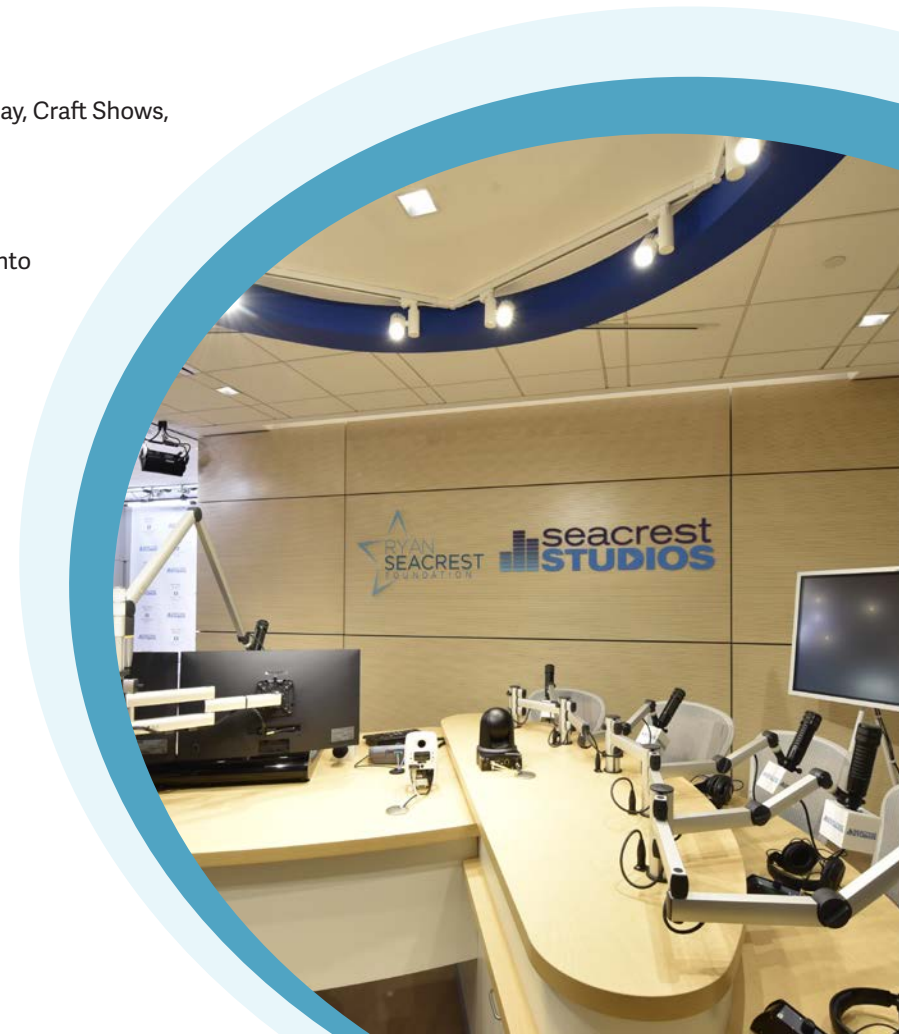
This state-of-the-art multimedia broadcast media center makes it possible for kids to get behind the camera and mic to develop, star and interact in original TV and radio programming during their hospital stays. Programming will be limited only by the imaginations of our patients, and patients will also have the ability to call down to the studio via their hospital room phone to engage in events they are watching on their screen.

- Our Seacrest Studio has received virtual visits from 48 guests, including 34 celebrities.
- We have had 312 hours of live broadcast and 1,820 hours of prerecorded content.
- We have produced 624 live shows with 44 different content types, including Bingo, Forecast Friday, Craft Shows, Name That Tune, Art Shows, News Shows, Music Therapy Performances, Science Shows, etc.
- Produce an average of 12 shows each week.
- Bingo is the most watched show.
- The studio has brought joy to more than 70 patients who hosted or co-hosted a show or called into the studio to be put on air.
- On December 3, 2021, the studio had their first in-person live performance since opening. Country music artists Restless Road and Jordan Davis joined us in studio to wow patients.



"Our Seacrest Studio has made a huge difference in how we deliver pediatric patient care at Orlando Health Arnold Palmer. The moments that stand out to me the most are watching patients put on their own shows: directing shows, performing songs and reading us books. Watching them entertain others who might be going through a hard time, while they are dealing with a difficult time themselves, is a true sign of strength and compassion. It is a pleasure to meet and interact with these patients and watch them grow on camera, while having great fun!"

— **Anthony Grier, Seacrest Studios Broadcast Coordinator**



# Philanthropic Support — Caring for Kids in Central Florida

For more than 30 years, philanthropic support has helped shape the standard of care at Orlando Health Arnold Palmer, enabling us to make meaningful enhancements through the decades. As a not-for-profit hospital, Orlando Health Arnold Palmer relies on the generosity of many individuals, community foundations, granting organizations and corporations whose consistent support advances our high-level of care, providing hope and healing to our patients and their families.

Philanthropic support makes possible the following:

- Life-saving equipment and supplies;
- Top talent and other vital resources to support programs such as oncology, neonatology, trauma services among others;
- And critical expansion efforts at our facilities.

In addition, Orlando Health Arnold Palmer has been a proud member of Children's Miracle Network Hospitals (CMN Hospitals) since 1997, enhancing and complementing our strong culture of philanthropy. Thanks in large part to the critical funds raised by our valued CMN Hospitals partners, we have been able to offer children in our community the level of expertise they require and professionalism they deserve.

Philanthropic support generated from CMN Hospitals and our many other community partners, including our own Team Member Giving Campaign, help provide the leading-edge, specialized care Orlando Health Arnold Palmer has become known for throughout the region. From clinical trials and the purchase of vital equipment to the softer, compassionate side of care such as Pet Therapy and Child Life services, donations significantly bolster the impact this organization has on the wellbeing of the children and families we serve.



## Ways to Give and Support

- **Donate Online**

Philanthropic support, large and small, powers every lifesaving treatment and breakthrough discovery at Orlando Health. Make a secure donation online at [OrlandoHealth.com/Give](https://OrlandoHealth.com/Give).

- **Donate by Phone**

To make a gift by phone, call us at (407) 841-5194.

- **Donate by Mail**

To send your gift by mail, please send a check made payable to "Orlando Health Foundation."

Please reference the program your donation should support in the MEMO line. Please mail your gift to:

Orlando Health Foundation  
3160 Southgate Commerce Blvd., Suite 50  
Orlando, FL 32806

Philanthropic support makes dreams become reality. We are grateful for the generosity of so many to support the best possible hospital experiences for our children.

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ARNOLD PALMER  
HOSPITAL  
For Children

92 W. Miller St., Orlando, FL 32806  
(321) 843-5437  
ArnoldPalmerHospital.com