Nemours Children's Hospital

2014 Progress Report

Nemours® Children's Hospital

Orlando, Fla.

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Introduction

Nemours Children's Health System is an internationally recognized, integrated children's health system that owns and operates Nemours/Alfred I. duPont Hospital for Children in Wilmington, Del., and Nemours Children's Hospital (NCH) in Orlando, as well as pediatric specialty, primary and urgent care offices in Delaware, Florida, Pennsylvania, Maryland and New Jersey.

Nemours has grown significantly in Central Florida since NCH opened in October 2012. The health system now owns and operates 13 Nemours Children's Primary Care, six Nemours Children's Urgent Care and three Nemours Children's Specialty Care offices conveniently located throughout the region. Nemours is putting its expertise to work in improving pediatric care in Florida through coordinated patient- and family-centered care that includes medical services, biomedical research and graduate medical education, dedicated to a high standard of quality and safety outcomes.

During 2013, Nemours engaged Professional Research Consultants (PRC), Inc. to conduct a Child & Adolescent Health Needs Assessment with the goal of gathering data to assist in determining the health status, behaviors, and needs of children and adolescents in the service area which has been defined as households with children in Brevard, Orange, Osceola and Seminole counties in Florida.

The assessment was comprised of both qualitative and quantitative data including a customized local Child and Adolescent Health Survey, Key Informant Focus Groups, Public Health data, Vital Statistical data and other benchmark data. The following areas of opportunity represent the significant health needs of children and adolescents in the community, based on the information gathered through this study:

Areas of Opportunity

- Access to Health Services
- Nutrition, Physical Activity & Weight
- Prenatal & Infant Health
- Health Education
- Injury & Safety
- Mental & Emotional Health
- Vision, Hearing & Speech

After reviewing this Community Health Needs Assessment report, Nemours leaders met to evaluate and prioritize the top health needs for children in the community using the following criteria:

- Magnitude – the number of children affected and the differences from state/national health data and Healthy People 2020 objectives
- Seriousness – the degree to which a health issue leads to death, disability or loss of the quality of life
- Impact – the degree to which the health issues affect/exacerbate other health issues
- Feasibility – the ability to reasonably impact the issue, given available resources
- Consequences of inaction – the risk of exacerbating the problem by not addressing at the earliest opportunity

After careful analysis, the top three areas of opportunity identified included Access to Health Services; Nutrition, Physical Activity & Weight; and Prenatal & Infant Health. The focus of our implementation plan was on these top three areas of opportunity, however Nemours developed implementation strategies for all seven opportunities identified. This document identifies the activities and programs developed and executed during 2014 as a result of the implementation plan objectives and strategies developed from the 2013 Community Health Needs Assessment.

Access to Health Services

Overview

According to the needs assessment, the Total Service Area (TSA) experienced higher than the national average levels of children who went without insurance coverage at some point in 2013 at 11.5 percent, and significantly higher among low-income and Hispanic populations at 21 percent and 15.8 percent respectively. In addition to insurance instability experienced in our TSA, families also experienced difficulties in obtaining medical care in 2013.

The three greatest barriers to access reported were inconvenient office hours, getting a doctor's appointment and finding a doctor, all statistically similar to the U.S. survey except for finding a doctor, of which our TSA fared far worse. Among the 29.6 percent of children who needed to see a specialist in 2013, 35.6 percent had a major or moderate problem obtaining specialty care for the child. In addition, 25.5 percent reported that it took 20 or more days to get an appointment.

Objectives:
1. To provide coordinated, comprehensive and culturally appropriate care to children and families of Central Florida.
2. To increase access to primary, specialty and subspecialty health care for children in Central Florida.
Implementation Strategies:
A. Create **Programs and Initiatives** to increase access to specialty care.
B. Maintain **Satellite Operations** to extend specialty care into the community.
C. Provide **Unique Service Offerings and Subspecialty Care** that is not otherwise accessible in the Central Florida community.
Evaluation:
1. Track programs, initiatives, unique service offerings and specialty care brought to the community.

Programs and Initiatives

- **Nemours KidsTRACK** – Coordinated Care and Access to Community Health Services

  By the numbers in 2014:

  - 596 attendees participated in programs/workshops such as the following: Nemours Reading BrightStart!, Sickle Cell Comprehensive, Healthy Choices, Healthy Lifestyles, Diabetes Education, Spanish classes, Safety Event, Carb Counting and Food Allergy Forum
  - 946 referrals to community services

- 921 internal referrals (785 unique patients)
- 528 telephone and walk-in consults

- **Language/Interpreter Services**

  By the numbers in 2014:

  - 2,467 calls and video remote services with an interpreter
  - 40 in-person visits with an interpreter
  - 92 American sign language visits with an interpreter

- **Ronald McDonald House** at NCH is scheduled to open in spring of 2016. The house was designed to complement the modern look of the hospital. With 15 private bedrooms and baths, a community kitchen and dining room, laundry and children's playroom, the 21,900-square-foot house will become a home-away-from-home for families with children receiving treatment at NCH. The home will feature an outdoor healing garden and a pilot art therapy program sponsored by Dr. Phillips Charities. Once the first phase of the house is complete, plans call for a 7,300-square-foot expansion that would increase the total number of bedrooms to 40. When the new house is completed, Orlando will be one of only six U.S. cities to have three Ronald McDonald Houses.

Transition Programs

- **KidsTRACK** continues to work on establishing a formal Transition Program at Nemours for our medically complex patients going into adulthood.

Satellite Operations

- **Nemours Satellite Clinics**

  By the numbers in 2014:

  Patient visits

  - Lake Mary – 6,761
  - Downtown Orlando – 17,206
  - Brevard County (Viera Clinic moved to Melbourne) – 2,353
  - NCH Outpatient Clinic – 62,705

- **Primary Care**

  - Pediatric & Adolescent Medicine of Seminole in association with Nemours has been certified as a Medical Home by the American Academy of Pediatrics (AAP). The medical home model of primary care emphasizes care coordination and communication particularly for families of children with complex medical needs, leading to higher quality care at a lower cost – improving the experience for both patients and providers. This Nemours practice is one of only 35 in Florida participating in this rigorous statewide demonstration project and granted this designation by the AAP.
  - Nemours doctors volunteered their time to provide 115 free back-to-school physicals for low-income children at Shepherd's Hope locations in Central Florida.

By the numbers in 2014:

- Children's Health Alliance (CHA) added five primary care offices in the Central Florida market: Oviedo, Clermont, Maitland, Palm Bay and Winter Haven for a total of 12 primary care offices.
- In Central Florida, Nemours acquired five pediatric urgent care centers called Nemours Children's Urgent Care in Altamonte, Dr. Phillips, Hunters Creek, Sanford and Waterford Lakes. These urgent care centers saw a total of 23,869 patients in 2014. A new urgent care center was also opened in Melbourne in 2014.

Rotating Specialists

- Nemours Children's Hospital formed partnerships with the following community hospitals in Central Florida: Heart of Florida Regional Medical Center, Indian River Medical Center and Wuestoff Medical Center.

Unique Service Offerings and Subspecialty Care

- HUG ME Center for HIV/AIDS
  - 360 patients through September 2014
  - Will be tracked by hours starting in 2015
- Multidisciplinary Muscular Dystrophy Clinic, Early Autism Clinic, Behavioral Analysis Clinic and Cystic Fibrosis Clinic
- Specialties added in 2014: Limb Lengthening Program, ENT evening appointments, Black & Blue Clinic hours on Saturday, dedicated Hematology/Oncology Inpatient Unit, Pediatric Stone Center, cochlear implants
- Nemours CareConnect Program: A proven virtual platform equipped with high-definition video and audio connections that allows "virtual visits" to identify if the patient needs to be transferred to Nemours Children's Hospital or if recommendations from Nemours' specialists can be provided to keep the patient in their community
- Patient Direct Scheduling available at family's convenience through My Nemours portal

Nutrition, Physical Activity & Weight

Overview:

Obesity and Nutrition was identified by families surveyed in our Total Service Area (TSA) as the number one perceived health issue for children and teens. More than 50 percent of those surveyed believe community resources are insufficient and/or not available for Obesity and Nutrition. Of those surveyed, 8.8 percent perceive limitations to physical activity, with 89.9 percent as a result of a long-term health condition such as ADHD, autism or asthma. While the prevalence of overweight and obese for the total TSA is less than the national average, it is significantly higher in Osceola County at 40.7 percent, and higher among the low-income population (40.9 percent) and ethnic minorities (Hispanic: 32.7 percent; other races excluding Black, White, & Hispanic: 35.2 percent). The TSA also reports less than the national average on consumption of fruits and vegetables and daily physical activity.

Objectives:
1. To reduce the number of children in Central Florida who are overweight or obese.
2. To increase education and awareness of lifestyle habits that contribute to being overweight and obese, and resources that are available in the community to children and families to live healthier lifestyles.
Implementation Strategies:
A. Build **Wide Dissemination and Targeted Saturation Community Prevention Programs** that target obesity prevention in early childhood.
B. Facilitate **National Prevention Programs** that spread best practices in obesity prevention.
C. Provide **Educational Classes and Resources** to teach families how to plan and prepare balanced, healthier meals and incorporate physical activity into their lives.
D. **Leverage Community Partnerships** to disseminate messaging around healthy eating and active living.
E. Conduct **Clinical Programs and Research** to find effective tools to treat children with obesity.
Evaluation:
1. Track community participation in programs and events and dissemination of healthy messaging collateral.

- ### Wide Dissemination and Target Situation Community Prevention Programs

  By the numbers in 2014:

  - 99 child care providers have been trained to help children grow up healthy and ready to learn for kindergarten
  - 2,469 children and their families have been impacted by Nemours healthy messaging
  - FPI partnered with the Second Harvest Food Bank, Early Learning Coalition of Orange County, Little Angels and Pine Hills Preschools and Nemours Associates to pack 2,700 meals to make 900 weekend food packs for 100 preschoolers at risk for food insecurity and obesity in two Pine Hills child care sites. The weekend food packs were distributed over five Fridays to the preschoolers.

- ### National Prevention Programs

  - Early Care and Education Learning Collaboratives in Central Florida served 5,000 children in 2014
  - *Let's Move!* Child Care, Tools and Resources to Promote Healthy Eating and Physical Activity

Educational Classes and Resources

- 75 families attended our Nemours Healthy Lifestyle Class in 2014
- Florida Prevention Initiative Resources
- Florida Chronic Disease Prevention Summit
- *Helping Children Achieve a Healthy Weight,* Osceola County Public School Health Services
- *Helping Children Achieve a Healthy Weight. What communities can do to combat childhood obesity?* At Good Food Central Florida and Rollins College Global Speaker Series.
- All Together Better Educational Lecture Series: *Healthy Habits Start with 5-2-1 Almost None,* Lake Nona YMCA
- *Infant/toddler nutrition, hunger & obesity,* Early Learning Coalition, Orange County
- *Creating a Healthy Learning Environment to Grow Healthy Children,* National Association of Family Child Care Annual Meeting
- Seminole County Department of Health Back-to-School Event
- Orange County's Mayor Teresa Jacobs' Health Summit
- *Healthy Habits for Life: Helping Children Grow Up Healthy & Ready to Learn,* Department of Health in Osceola County
- *Innovations in Prevention: Perspectives from an Integrated Health System*
- *The Food Bank's Role in Community Health: Making the Connection*
- Providers Helping Children Grow Up Healthy and Ready to Learn, 10th Annual Osceola County Early Educators Conference
- 14th Annual Conference on Obesity – Making Sense of Treatment Guidelines for Obesity
- Diabetes and Obesity: America's Epidemic, Rollins College Health Forum
- Reduce Obesity in Central Florida KIDS (ROCK), Florida Chronic Disease Prevention Coalition Third Annual Summit
- Nemours Health Promotion – School Health Advisory Council – Seminole

By the numbers in 2014:

- 4,210 Nemours healthy eating, active living-related materials have been disseminated to the community through trainings, partnerships and events.

Leverage Community Partnerships

- Second Harvest Food Bank
- Early Learning Coalition of Orange County
- Little Angels and Pine Hills Preschools
- City of Orlando's District Five Coalition – Health Advisory Council
- The University of Florida's Food and Nutrition Program was trained in August on Nemours' *Healthy for Life* training along with *Let's Move! Child Care* and will be spreading our training and resources across the state in 16 counties in 2016, helping expand our reach to areas that would typically not be in FPI's geographic scope.
- *Nemours Healthy Habits for Life: A Child Care Obesity Prevention Initiative*, Dr. Wei keynote speaker – June 16
- Presenter and content expert for at least 20 local or statewide conferences and symposiums around obesity and early childhood, school health and food security.
- Provided *Nemours 5-2-1 Almost None* education for a healthy lifestyle and other resources around healthy eating and physical activity at a half dozen community health fairs and events annually.

- **Clinical Programs and Research**
  - The Nemours Healthy Choice Clinic, an outpatient pediatric weight management program, provided multidisciplinary care to children in the Central Florida community with over 1,500 visits in 2014.
  - Biomedical Research – Dr. Lang is working on the *Lifestyle Intervention For Asthma (LIFA)* study.

Prenatal & Infant Health

Overview:

The infant mortality rate in our TSA is higher than both the Florida and national averages at 7.8 per 1,000 live births and significantly higher in Orange and Osceola counties at 8.3 and 8.6 per 1,000 live births, respectively. In the non-Hispanic Black population, this increases to 15.6 per 1,000 live births.

Objectives:
1. Positively impact the infant mortality rate in the four-county TSA.
2. Increase education and awareness of prenatal and infant health issues among health care providers in Central Florida.
Implementation Strategies:
A. Provide **Prenatal Education** to moms, families and providers that promotes healthy pregnancies and safe deliveries.
B. Create **Infant Health Programs and Outreach** that provide services, education and support to families and providers.
Evaluation:
1. Track participation and feedback in prenatal and infant health education programs.

▪ Prenatal Education

- In 2014, Children's Health Alliance (CHA) *Mommy to Be* classes have been attended by 215 expectant parents. These classes are held at Babies R Us® locations throughout Central Florida.
- Representatives from Nemours participated in the Floppy Hat and Flip Flop Baby Shower and Educational Seminar at the Lake Mary Events Center on March 20, 2014. More than 200 mothers and expectant parents in Seminole County attended this outreach event that was designed to teach families the importance of good health and safety. Carol Quick, director of education for Nemours Reading BrightStart! presented developing early literacy and oral language skills in young children; Dr. Andrea Burns, physician at Nemours Children's Primary Care, Oviedo, spoke on the basics of care for newborns; Kelly Rogers, program and policy analyst for Nemours Florida Prevention Initiative, addressed health habits for life; and Dr. Cristy Wong, physician at Pediatric & Adolescent Medicine of Seminole,in association with Nemours, spoke on outdoor safety information.
- Dr. Jordan Smallwood, *SCID and the Newborn Screen: An ounce of prevention*, Newborn Screening in Florida Pediatric Seminar
- Two talks at the Newborn Screening in Florida Pediatric Seminar on September 27, 2014: *Nuts and Bolts of Newborn Screening* and *Newborn Screening for Cystic Fibrosis: One mutation, Two mutations, No mutations*
- Dr. Victoria Niklas, Grand Rounds, June 11, 2014, *Balancing Intestinal Health in the Prevention of Necrotizing Enterocolitis in the Preterm Newborn*
- Dr. Julie Wei, *Systematic Evaluation of Otolaryngology Issues in Tracheostomy and Ventilator Dependent Infants*

Infant Health Programs and Outreach

- Rapid Access Program
- Nemours provides rapid access (<1 day) to infants presenting with neuromuscular symptoms to provide care and treatment during this critical window.
- Milk Bank of Florida
- Layne Petrino, Neonatal Nurse Practitioner, MSN, ARNP-BC, CLC, is the vice chair of the board of Mothers' Milk Bank of Florida.
- All Associates working in our Neonatal Intensive Care Unit are certified in the Neonatal Resuscitation Program and S.T.A.B.L.E.
  (Sugar, Temperature, Airway, Blood pressure, Lab work, and Emotional support).

Secondary Health Concerns:
Health Education

Overview:

In the TSA, parents report significantly less awareness than the national average of local parenting education programs, at 42.3 percent, and significantly lower in Osceola County at 29.2 percent.

Objective:
1. Increase awareness of and participation in community health education programs for children, families and community health care providers.
Implementation Strategies:
A. Provide **Health Education for Patients and Families** both within our walls and in the community.
B. Extend content expertise through **Community Health Care Provider Education** programs.
C. Foster the **Education of Future Health Care Leaders**.
Evaluation:
1. Track participation in health education programs and dissemination in educational materials.

- **Health Education for Patients and Families**
  - KidsHealth.org
    - We had 675,569 views accessed in the Central Florida area in 2014
  - KidsTRACK
    - 596 attendees participated in programs/workshops such as the following: Nemours Reading BrightStart!, Sickle Cell Comprehensive, Healthy Choices, Healthy Lifestyles, Diabetes Education, Spanish classes, Safety Event, Carb Counting and Food Allergy Forum
  - Nemours Reading BrightStart! Early Literacy Screenings in 2014
    - 243 children screened in the Central Florida area
    - 21 parent workshops
    - 19 community events
    - UCF Book Fair event had 115 children complete crafts and over 200 families visited our Nemours Reading BrightStart! booth
  - Condition-Specific Support Sessions and Education
    - Nemours provides condition-specific support and education sessions, many held in KidsTRACK, to serve patients and families including:

By the numbers in 2014:

- Biweekly Type I Diabetes Support Sessions – 65 attendees
- Sickle Cell Comprehensive Sessions – 104 attendees
- Food Allergy Cooking Demonstration – 7 attendees
- Early Literacy Parent Education Series – 146 attendees
- Doc Talks hosted at Nemours Children's Hospital's Auditorium in 2014:
  - Jason Lang, MD
  - Nemours primary care doctors
  - Julie Wei, MD
  - Kenneth Alexander, MD
  - Todd Maugans, MD

Community Health Care Provider Education

- Community Continuing Medical Education
  - *Pediatric Emergency Medicine: Advances and Controversies,* Todd Maugans, MD
  - Newborn Screening in Florida Pediatric Seminar 2014: *Nuts and Bolts of Newborn Screening*
  - *Early Autism Intervention: Autism Spectrum Disorders...The more you know,* Laufey Sigurdardottir, MD

- Osceola School Nurse Continuing Education Program
  - Lloyd Werk, MD, *Helping Children Achieve a Healthy Weight*
  - Jamie Ikeda, MD, *Common Eye Problems*
  - Judy Wall, MD and Monica Nebel, *Blood Disorders and Oncology*
  - Laufey Yr Sigurdardottir, MD, *Children with Epilepsy and Improving Recognition of School-Aged Children with Autistic Disorders*
  - John Rendle, *Asthma*
  - Christopher Borillo, MD, Beth Long, MD and Cristy Russo, MD, *Common Psychological Disorders*

- Asthma Education
  - *Asthma 101 Training* – Nemours trained the entire staff of Boggy Creek Elementary School since the school has 139 students with asthma.
  - Trained Osceola County school nurses
  - Camp Easy 2 Breathe – With support from Nemours and a staff of UCF nursing students, Gibson-Young launched Camp Easy 2 Breathe based on the American Lung Association's curriculum for children ages 6 to 12. The four-day camp offers activities including:
    - scavenger hunts highlighting attack triggers and similar activities to help get kids thinking about how their illness works
    - making lung puppets out of paper sacks and construction paper and learning lung strengthening exercises
    - participating in physical activities that teach them how to recognize their limits and avoid an attack that may lead them to an emergency department
- Community Diabetes education sessions were conducted for the following:

- Lake County school nurses
- Volusia County school nurses
- JDRF Family Outreach Event
- Florida's Department of Children and Families' case managers and child protective services officers

– Florida Down Syndrome Conference
In 2014, 285 families attended the conference at the University of Central Florida. Airaj Fasiuddin, MD, *Common Eye Findings in Children with Down Syndrome*, Julie Wei, MD, *ENT AND AUDIOLOGY issues relevant to DOWN children*, and Julie Denham, MD, *Celiac Disease*, presented at this conference on behalf of Nemours.

– PULSE Conference
Nemours sponsored and participated in Orange County Public School's 2015 PULSE (Parents United with Leaders, Students, and Educators). The focus of the PULSE conference is to provide awareness and strategies to inform, promote and support the achievement of students with disabilities and their families. Parents, educators, administrators, advocates, self-advocates, professionals and many others may participate in this conference to gain skills and information vital to their success. Monica Nebel, KidsTRACK Programs Manager, Laufey Sigurdardottir, MD and Betsy Burgos presented at the PULSE Conference.

– Early Learning Coalition – Osceola's 10th Annual Early Learning Conference

– Kelly Rogers presented *Providers Helping Children Grow Up Healthy* to 40 child care providers.

– Orange County Public School's Nurse Trainings
Sarah Gibson, MD, *Concussion*, and Jami Kessel, RN, *After the Fight*, conducted four training sessions throughout the school district for RNs, LPNs and school health assistants who worked in the district's school clinics in 2014.

– School Health Association Conference – Julie Wei, MD, presented on *Common ENT Disorders seen by school health professionals*

– Central Florida Health Summit – Over 100 Orange, Seminole and Osceola county community leaders met in Maitland on May 15 to participate in a regional health summit. This event brought together leaders from transportation, government, education, environment, social service agencies, health care, public safety and business to examine community health issues. Martha Santoni from Nemours presented *Nemours Children's Health Needs Assessments in Central Florida* with a focus on access to health services; prenatal and infant health; and nutrition, physical activity and weight. After the summit's presentations on the region's health, breakout groups created strategies addressing health literacy, obesity and chronic disease. A summary of these strategies will help guide the creation of action plans by the counties' health collaborations with the support of public health departments and the local hospital systems.

– In June, Nemours partnered with United Cerebral Palsy (UCP) of Central Florida and the University of Central Florida to host *Connecting the Dots in Central Florida*, an education event to address heath care coordination for special needs children. The conference highlighted fragmentation of services for these families. Representatives from all three organizations presented on a variety of topics relating to these issues, including early identification, roles of care team members, communications strategies and coordinated care across the continuum.

– Lecture at Florida Institute of Technology, June 18, 2014, *The VB-MAPP assessment and intervention*

– Effective Assessment and Collaboration in the Management of Diabetes, participant in training program, Central Florida Learning Circle

– Adalberto Torres, MD, Patient IPV Round Table Discussion, Space Coast Cardiopulmonary Conference

– Shayan Vyas, MD, *Sepsis Lecture*, Central Florida Health Care, Polk County

– Shiva Kalidindi, MD and Khan, MD, Seminole State College, *Pediatric Education for Prehospital Professionals*

– Jen Setlik, MD, *Child Advocacy and Injury Prevention Advocacy Course – Teen Suicide Prevention*

– Presentation, *Medical Exam in Child Advocacy Cases*, Florida Institute of Technology, September 2014, Vi Ngo, MD

– Presentation, *Recognizing and Reporting Child Abuse*, Palm Bay Brevard Health Alliance, April 2014, Vi Ngo, MD

– Ngoc Du, MD, *Heart Rhythms*, Heart of Florida Regional Medical Center

– Ngoc Du, MD, *Hypo-Plastic Left Heart*, Heart of Florida Regional Medical Center

– Laufey Sigurdardottir, MD, *Lyrics of High Functioning Autism*, Orange County Public School System annual PULSE conference

- Laufey Sigurdardottir, MD: 6/12/14: Scott Center for Autism – panel discussion on recent developments in autism
- Laufey Sigurdardottir, MD: 6/7/14: Enzian Theater – *Science on Screen*: talk and Q/A coordinated with movie on autism
- Laufey Sigurdardottir, MD: 6/20/14 – UCP Program at NCH on *Connecting the Dots – autism and multihandicapped children*
- Richard Finkel, MD: 8/22/2014: Roundtable speaker invited by U.S. Congressman Gus Bilarikus, to discuss health care and medical research topics relevant to Central Florida and Nemours, Tampa, Fla.
- Lloyd Werk, MD partnered with Lisa Barkley, MD, Mertalaine Mulatre, MD, Xin Yan, MD and Michael Campbell, MD of UCF, *Racial Differences in Physical Activity and Environmental Behavior Goals in Adolescents in a Multidisciplinary Clinic*. Poster Presentation in Orlando, Fla., May 27-31 at the 2014 Annual Meeting, World Congress on Exercise is Medicine and World Congress on the Role of Inflammation in Exercise, Health and Disease of the American College of Sports Medicine
- N.W. Boris, MD, with Judge Lynn Tepper, *The Trauma-Informed Courtroom: Rationale to Results*, Florida Conference of Circuit Court Judges
- N.W. Boris, MD, with Kimberly Renk, MD, *Attachment: Key Principles in Child Welfare*, (4-hour seminar), Child Protection Summit
- N.W. Boris, MD, conducted a three-hour workshop on *Principles of Therapy* with counseling and social work interns at Beta Center
- NCH The Muscular Dystrophy support group, *Talking with your child about Muscular Dystrophy to improve coping and confidence in living with a chronic illness*
- Nicole Johnson, RN, MSN, MBA, NE-BC,CPEN, *Parenting Children with Alternative Lifestyles*, You're Not Alone Conference, Campus Crusade for Christ
- Leslie Gavin, MD, Nemours Children's Hospital, and Kimberly Grabert, MPA, CPM, Dept. of Children and Families, Orlando Roundtable presentation on Human Trafficking at 2014
- N.W. Boris, MD, *Technology for Children: How much is too much?*, 5th Annual State of Early Care and Education Breakfast Forum Panelist
- Shiva Kalidindi, MD: 05/2014: *ABCs of Pediatric EMS*, Orlando. Workshop: Pediatric Code Simulation (skills station)
- Bibi Nazeema Khan, MD: May 2014: *Pediatric Seizures – ABCs of Pediatric EMS*
  Pediatric Emergency Medicine: Advances and Controversies for the Clinician; Workshop: Pediatric Emergencies Simulation
- Richard Finkel, MD: 4/2014: Florida Society of Genetic Counselors annual meeting, Orlando, *Overview of Heritable Neuromuscular Disorders and Why Genetic Counselors are Mission Critical*
- Richard Finkel, MD, *Overview of New Treatments in Pediatric Neuromuscular Disorders*, Muscular Dystrophy Association annual Central Florida Workshop

Education of Future Health Care Leaders

- Nemours hosted the Osceola Medical Pipeline's Health Leaders Academy for an interactive tour and panelist discussion.
- In September 2014, Nemours Children's Hospital hosted our first Annual Career Exploration Day for area high school students from health academies/magnet programs from Orange, Osceola, Volusia, Brevard and Seminole county schools to NCH. Various presenters discussed their career paths in diverse medical fields.
- Nemours hosted 158 students from medical schools for casual student observations in 2014.
- Nemours Children's Hospital had 298 undergraduate and graduate-level interns from disciplines such as nursing, social work, public health and health administration.
- Florida Institute of Technology, The Scott Center for Autism Treatment signed a Memorandum of Understanding with Nemours Behavior Health to train Applied Behavioral Analysis Therapy students and provide CEU training at FIT.
- NCH has a very strong relationship with the University of Central Florida's College of Medicine. Nemours invites the students to attend the Grand Rounds every week and has physicians giving lectures often to the medical students.

Injury & Safety

Overview:

Child and adolescent mortality rates in our TSA are, on average, lower than the national rates with the exception of the 14-year-old age group which is significantly higher at 35.7 per 100,000. The number one leading cause of death among children ages 1-19 is accidents, primarily drowning in ages 1-4 and motor vehicle accidents in ages 15-19. Additionally, seat belt safety and safety seat use among children is slightly below the national average in our region.

Objective:
1. Increase awareness of and participation in community safety and injury initiatives and programs.
Implementation Strategies:
A. Provide **Safety/Injury Education** to patients and families.
B. Create targeted **Safety/Injury Initiatives** to serve the needs of the community.
Evaluation:
1. Track participation in and feedback of community safety and injury initiatives and programs.

- **Safety/Injury Education**
  - Safe Kids Safety Expo
    In 2014, 30 families participated in our Safety Expo for patients and families in the surrounding area to provide car safety checks, fingerprinting, swim safety and other demonstrations to provide education surrounding the safety of children.
  - Car Seat Installation
    Nemours Associates continue to teach patient families on how to properly install car seats and plan to train additional Nemours Associates in 2015 to expand services.

- **Safety/Injury Initiatives**
  - Concussion Treatment and Prevention Program
    - Orange County school nurses
    - White House Healthy Kids
    - Safe Sports Concussion Summit
    - Conducted Melbourne training – 250 parents
    - News Channel 13 – Concussion and Toolkit
    - Aspen Institute Project Play Initiative
    - Doc Talks on Concussions
    - *Pediatric Head Injury and Concussion*, Florida Association of Physician Assistants Winter Symposium

- Asthma Camp Osceola had 33 participants in 2014. Approximately 22 percent of Osceola County Children under the age of 18 have had at least one asthma attack. With support from Nemours and a staff of UCF nursing students, Gibson-Young launched Camp Easy 2 Breathe based on the American Lung Association's curriculum for children ages six to 12. The four-day camp offers activities including:
  - scavenger hunts highlighting attack triggers and similar activities to help get kids thinking about how their illness works
  - making lung puppets out of paper sacks and construction paper and learning lung strengthening exercises
  - participating in physical activities that teach them how to recognize their limits and avoid an attack that may lead them to an emergency department

Mental & Emotional Health

Overview:

While the majority of our TSA in total reports Excellent/Very Good mental health, 14.7 percent of low-income and 12 percent of Hispanic children report experiencing Fair or Poor mental health, which is significantly higher than the national average. Parents report that 17.8 percent of teens, 18.5 percent of low-income and 17.1 percent of Hispanic children have needed mental health services in the past year, compared to 13 percent in the TSA and 13.1 percent in the U.S. However, parent awareness of mental health services in the TSA is lower than the national average of 68.8 percent at 54.8 percent, and significantly lower in Orange County at 50.3 percent.

Objective:
1. Increase access to outpatient and community mental health services.
Implementation Strategies:
A. Develop **Outpatient Mental Health Programs** to expand mental health services.
B. Develop **Community Mental Health Programs** to extend services into the community.
Evaluation:
1. Track usage and feedback of outpatient and community mental health services.

- **Outpatient Mental Health Programs**
  - Early Autism Clinic
    Nemours Children's Hospital received $667,000 in 2014 from the State of Florida to improve early identification and treatment of children with autism. The funds from the State will enable NCH to:
    - Educate primary care physicians, residents and medical students to increase their awareness of early signs of autism, and provide them with appropriate screening tools and referral channels for autism evaluations.
    - Continue to build our Nemours team to be able to provide comprehensive diagnostic evaluations and provide families with a roadmap of necessary therapies.
    - Train applied behavior analysts (in partnership with the Florida Institute of Technology) and psychologists to increase the number of professionals with specialty training in treating children with autism spectrum disorders in Florida.

By the numbers in 2014:

- 76 children screened
- 89 children participated in community mobile screenings
- 9 behavioral techs in training
- 2 psychology externs

- **Community Mental Health Programs**
  - BETA House
    - The Nemours Division of Behavioral Pediatrics extended their resources to bring a Mental Health Clinic to Beta House to treat 21 patients in 2014.

- Upstander Program
  - N.W. Boris, MD, participated in the Orlando Bully Prevention effort, along with Mayor Buddy Dyer.
  - Amanda Montgomery, LCSW, conducted a Community talk, *Bullying and Cyberbullying: What Every Parent Needs to Know* with the Upstanders Program at the Holocaust Memorial Center, Maitland, Fla.
  - Nemours Children's Hospital sponsored the City of Orlando's Stand Up to Bullying Project in 2014 in partnership with the Zebra Coalition and Upstander Program.
  - Amanda Montgomery, LCSW, presented at Cheerleader Conference regarding "Bullying" in partnership with the Upstander Program.
  - Chris Borrillo, MD, presented *Bullying 101: Helping Kids Help Themselves*, Boys & Girls Club.

Vision, Hearing & Screening

Overview:

In the TSA, 4.2 percent of children have uncorrectable vision problems, which is higher than the national average of 1.9 percent. Children in Orange and Seminole counties have a significantly higher prevalence, both at five percent.

Objective:
1. Increase early vision screenings in community settings, specifically in early childhood.
Implementation Strategies:
A. Provide **Community Screenings** in early childhood settings.
Evaluation:
1. Track screenings provided to children in preschools and elementary schools.

- ### Community Screenings

  – Spot Vision Screenings

  By the numbers in 2014:

  – Nemours Primary Care Grand Opening – Oviedo – Airaj Fasiuddin, MD – 40 children screened

  – Nemours Primary Care Grand Opening – Clermont – Jamie Ikeda, MD – approximately 25 children screened

- ### Our Healthy Eyes

  – A proof of concept pilot project sponsored by NCH and Nemours Florida Prevention Initiative (FPI) in partnership with NCH Ophthalmology and Nemours Reading BrightStart!, demonstrated in its evaluation that an early childhood education and group vision screening program for preschoolers is feasible, potentially scalable and could possibly serve as a model for other health conditions.

  – Nearly 200 preschoolers and their families at six centers received educational programming with 143 receiving a vision screen and 10 identified with an abnormal screen (one knew of existing condition) including two obtaining glasses and one receiving follow-up with NCH.

Additional Efforts to Benefit and Support the Health of Our Communities

Boards and Leadership

American Lung Association

Asian-American Chamber of Commerce

Beta Center Board

Boy Scouts of Central Florida

Brevard Child Protection Team

Brevard Heart Alliance

Central Florida Disaster Medical Board

Central Florida Disaster Medical Coalition

Central Florida Health Leadership Council

Central Florida Regional Health Planning Committee

Central Florida Regional Partnership

Children's Home Society Early Head Start Policy Council

Crohns & Colitis Foundation of America, Florida Chapter

Cystic Fibrosis Foundation

Cystic Fibrosis Foundation's Patient Engagement Advisory Committee

Down Syndrome Association of Central Florida Board

Down Syndrome Association of Central Florida – Medical Advisory Board

Early Learning Coalition's Orange Food Security Task Force

Early Learning Coalition – Osceola County

Early Learning Coalition – Seminole County

East Orlando Chamber of Commerce

Economic Development Council of Metro Orlando

Get Active Orlando Board

Greater Orlando Human Trafficking Task Force

Healthy Orange Coalition

Healthy Seminole Collaboration

Heavenly Hooves

Hispanic Chamber of Commerce of Central Florida

Juvenile Diabetes Research Foundation

Kissimmee/Osceola County Chamber of Commerce

March of Dimes

Mayor's Youth Mental Health Commission Implementation

Mayor's Youth Mental Health Commission – Recommendations

Medical School Interviewer, University of Central Florida's College of Medicine

Milk Bank of Florida

Orange County Healthy Start Coalition

Orange County Mayor's Youth Mental Health Commission

Osceola County Fetal and Infant Mortality Case Review Team

Oviedo Winter Springs Chamber of Commerce

Pediatric Emergency Preparedness for Paramedics Instructor

Primary Care Access Network Board

Reduce Obesity in Central Florida Kids (ROCK) Board

Ronald McDonald House Charities

Runway to Hope

School Health Advisory Council – Seminole & Orange counties

Second Harvest Food Bank Nutrition Committee

Seminole County – Raising of America Planning Committee

Seminole County Regional Chamber of Commerce

Shepherd's Hope

Special Olympics Florida

Spina Bifida Association of Central Florida

Statewide Human Trafficking Work Group

Success With Therapies Research Consortium

Thornebrooke Elementary School Parent-Teacher Organization

United Arts Council of Central Florida

West Orange Chamber of Commerce

Community Events and Sponsorships:

100 Black Men

Alpha Kappa Alpha Sorority Scholarship

American Heart Association

Autism Speaks

Beta Center Diamonds and Denim

Camp Boggy Creek

Cattle Barons (American Cancer)

Christmas Bikes for Kids

Community Based Care of Central FL

Crohns and Colitis

Cystic Fibrosis Foundation

Give Kids the World

Holocaust Memorial Anti-Bullying Campaign

Juvenile Diabetes Research Foundation

Kids House Gala

Lakeland Little League Buddy Ball

MDA: Muscular Dystrophy Association

Mennello Gala

Nathaniel's Hope

Orange County Public Schools' Pulse Conference

Ride for Ronald

Reduce Obesity of Central Florida Kids (ROCK) Conference

Run Nona

Runway to Hope Fall Event

Runway to Hope Spring Event

Shepherd's Hope

Spina Bifida Walk and Roll

United Cerebral Palsy

United Way Children's Summit