

Le Bonheur Joins National Body Cooling Study

NIH-funded study first to investigate body cooling treatment in children

Le Bonheur Children's has joined the first large-scale, multicenter trial to study a body cooling treatment in infants and children who suffer cardiac arrest. The study, known as Therapeutic Hypothermia After Pediatric Cardiac Arrest (THAPCA), is funded by the National Institutes of Health, with more than \$21 million granted during a six-year period.

The hospital, in partnership with the University of Tennessee Health Science Center, is one of 34 sites in this clinical trial. The body cooling treatment, known formally as therapeutic hypothermia, has proven successful in adults after cardiac arrest and in newborn infants after birth asphyxia, or lack of oxygen. This is the first such study to investigate a pediatric population.

"The THAPCA trial is the world's first major clinical trial related to cardiac arrest in childhood, and it will have a huge public health impact around the world," said Le Bonheur's Critical Care Chief K.J.S. "Sunny" Anand, MBBS, D.Phil. "It will establish whether lowering the body temperature after a cardiac arrest lowers the rate of death or permanent disability among children."

The Le Bonheur Children's Hospital and University of Tennessee Health Science Center trial center will be led by Intensivist Samir Shah, MD.

Researchers believe the method could work for children

after cardiac arrest by reducing fever and maintaining a subnormal body temperature, as elevated body temperatures following cardiac arrest often cause long-term disability or worse outcomes.

During therapeutic hypothermia, trial participants lie on mattresses and are covered with cooling blankets. Machines circulate water through these blankets to regulate the participants' body temperature.

All study centers, including Le Bonheur, will enroll participants from one of two patient populations. One trial will evaluate participants who suffered cardiac arrest outside the hospital, while the other will evaluate participants who suffered cardiac arrest in the hospital. Within each trial, there are two active treatment groups: therapeutic hypothermia (cooling the patient to 89.6-93.2 degrees Fahrenheit)

and therapeutic normothermia (maintaining the patient at 96.8-99.5 degrees Fahrenheit). Both treatment groups aim to avoid the fever that normally follows cardiac arrest.

The THAPCA trials are being conducted in partnership with the Collaborative Pediatric Critical Care Research Network and the Pediatric Emergency Care Applied Research Network.

"I consider it an honor to be included in the trial network, showing that Le Bonheur belongs in the top-most pediatric centers in the country," said Shah, who also serves as associate professor of Pediatrics at The University of Tennessee Health Science Center.



Le Bonheur Children's Pediatric Intensive Care Unit is participating in a NIH-funded trial that studies therapeutic hypothermia. Intensivist Samir Shah, MD, above, is leading the site's study.

CHESNEY EARNS JOHN HOWLAND MEDAL

Nephrologist Russell Chesney, MD, will receive the 2011 John Howland Medal, the highest honor of the American Pediatric Society. The prestigious award is given annually to an individual who has aided in the advancement of pediatrics.

Chesney has served as the chair of the department of Pediatrics for the University of Tennessee Health Science Center since 1988.

In his 42-year career, Chesney has published hundreds of articles, book chapters and other publications. He's given more than 500 presentations and lectured at universities across the country and the world. His research has contributed to the fields of



Russell Chesney, MD

pediatric nutrition, nephrology, genetics and metabolism. His nominators called Chesney "the consummate pediatric clinician-scientist."

This past year, Chesney also received the Ira Greifer Award from the International Pediatric Nephrology Association.

TSC CLINIC EARNS NATIONAL DESIGNATION



James Wheless, MD

The Tuberous Sclerosis Complex (TSC) Clinic at Le Bonheur Children's Hospital's Neuroscience Institute has received official clinic designation from the Tuberous

Sclerosis Alliance. The Alliance, a national organization dedicated to increasing awareness about TSC, grants clinic designations to programs that meet criteria related to the number of TSC patients seen, the types of problems encountered and the ability to provide educational information and multi-disciplinary care.

This designation will allow Le Bonheur's Neuroscience Institute to better care for pediatric patients who are affected by the genetic disorder, which causes tumor growth in organs throughout the body. Through the alliance, the Neuroscience Institute can provide families with information to help them understand TSC, which they can communicate to their child's school and teachers. Additionally, the clinic will host educational programs for families and ensure all are receiving the best care possible.

"The clinic reflects Le Bonheur's commitment to providing outstanding, state-of-the-art therapy to this population," said James Wheless, MD, director of Le Bonheur Children's Neuroscience Institute. "Families can be assured they will receive the best care possible for TSC. We will also continue to advance new research that will improve the care of these patients."

Wheless, along with Neurophysiology Fellow Katherine Van Poppel, MD, have been appointed as the TSC Clinic's medical directors. Wheless will serve on the national Professional Advisory Board.

LEAD Pilots Inclusion for Children with Medical, Developmental Needs

Le Bonheur's Early Intervention and Development (LEAD) is part of a state pilot program integrating children with medical needs and developmental delays into typical child care centers throughout Memphis.

The project is a first for these children, many with chronic medical needs, who otherwise would not have a child care center to attend and learn with typi-

cally developing peers. LEAD inclusion facilitators now work in 12 partnered centers, caring for children with special needs – which range from feeding difficulties to sensory impairments.

Since the program began this summer, the partnership has created more inclusive environments, teaching typically developing children how to interact with children with special needs.

"For more than 10 years, LEAD was the only program in the Memphis area that could readily accommodate children with ongoing

medical needs into its child care center," said Danielle Keeton, LEAD's director. "Now, we are able to care for more children, in addition to teaching other instructors how to care for children with developmental delays or medical needs."

Previously, LEAD had cared for typically developing children and those with special needs at



Le Bonheur Early Intervention and Development leading efforts to integrate children with medical needs and developmental delays into typical child care classrooms. Above, Le Bonheur Inclusion Facilitator Denecia Goode reads to Darrell Allen at Porter Leath Children's Center in Memphis.

its hospital campus location. Partnering with child care centers has allowed LEAD to care for more children.

In addition to early childhood education, LEAD also provides therapy services and behavior analysis (ABA) to children age birth to 3 years. Early intervention services are provided in homes, community-based child care centers and community based parent-child play groups.

Haiti Team Publishes Report on Post-Earthquake Medical Mission

Findings from a study conducted during Le Bonheur Children's 2010 medical mission to Haiti reiterate the importance of mobilizing resources and medical relief teams to meet pediatric needs, according to a study published in the December issue of *Clinical Pediatrics* (KJS Anand, et al. Pediatric patients seen in Port-au-Prince, Haiti. *Clinical Pediatrics* 49(12): 1147-1152, 2010).

The study is published by members of the Haiti mission team deployed following the January 2010 earthquakes and identifies specific needs for Haitian children living in the aftermath of the earthquakes. It also calls for professionalism, standards of care and accurate record-keeping in times of disaster.

In late January 2010, Le Bonheur sent a team of two pediatric orthopedic surgeons, a trauma surgeon, critical care specialist, anesthesiologist, certified nurse anesthetist, paramedic and surgical technicians to Sacred Heart Hospital, a private hospital located in Port-au-Prince. During the two-week mission, the team saw about 900 patients and performed more than 75 surgeries. The team – which was joined by physicians from Haiti Medical Missions of Memphis – brought medical supplies and equipment with them to treat the earthquake victims.

Though both adults and children were treated by the



Members of Le Bonheur's Haiti medical mission team, traveled to the earthquake-stricken country in January 2010. Research from their trip is published in a recent edition of *Clinical Pediatrics*.

team, the average age of pediatric patients seen was 7.4 years, according to the data published in the report. Each patient was seen in a triage area, where physicians documented the patient's complaints, vital signs and medical history. Most patients were in need of treatment for earthquake-related injuries or illness, and those who were not injured needed rehydration, immunization against communicable diseases, or psychological evaluation and counseling, as many presented with symptoms of gastroenteritis and acute stress disorder.

The report found that for those children directly injured by the earthquake, the most important needs were to control wound infections, improve functional outcomes with the use of prosthetics, physical and occupational therapy, and to improve limb function and sustain limb viability through plastic or reconstructive surgery.

Short Scripts



English named Tennessee's Pediatrician of the Year

Keith English, MD, chief of

Infectious Diseases at Le Bonheur, was named Pediatrician of the Year by the Tennessee Chapter of the American Academy of Pediatrics for his service, knowledge and leadership to Tennessee and the nation during the 2009 H1N1 outbreak.

Also for his efforts, English received the meritorious service award for medical staff, presented by the Tennessee Hospital Association during its 72nd annual meeting in Nashville, Tenn.

Le Bonheur earns \$4 million to fight teen pregnancy

Le Bonheur Children's has been awarded a \$4 million grant from the Office of Adolescent Health, a division of the U.S. Department of Health and Human Services. The

funding will allow Le Bonheur to implement evidence-based programs to help reduce teenage pregnancy, identify and prevent behavioral risks underlying teen pregnancy and to help alleviate other associated risk factors such as infant mortality.

Le Bonheur has chosen to launch "Be Proud! Be Responsible! Memphis!" program, which utilizes components of a curriculum demonstrated by the Centers for Disease Control and Prevention to increase knowledge and eliminate or reduce risky sexual behaviors among adolescent populations.

Le Bonheur, UT form pediatric specialty practice

Le Bonheur Children's Hospital and the University of Tennessee Health Science Center (UTHSC) have launched a new pediatric specialty faculty group practice. The new group – UT Le Bonheur Pediatric Specialists (ULPS) – will initially include more than 100 pediatric subspecialists who are currently members of UT Medical Group, Inc. (UTMG). These physicians practice at Le Bonheur and have

academic appointments at UTHSC. The new non-profit practice will be the Mid-South's only multi-specialty pediatric group practice solely focused on children's health.

Cohen co-edits radiology text

Radiology Chief Harris Cohen, MD, is co-editor of the 2010 Fifth Series of "Bone Disease," a text from the American College of Radiology. Cohen also serves as the series editor in chief. Cohen also spoke on "Ultrasound and Analysis of Vomiting in Neonates" at the 2010 meeting of the Society of Radiologists in Ultrasound.



In addition to leading Le Bonheur's Radiology Department, Cohen also serves as professor and executive vice chairman of the Department of Radiology at the University of Tennessee Health Science Center.

New Building Provides Innovation, Latest Technology

Patients moved into the new Le Bonheur Children's facility on Dec. 5, officially opening the \$340 million, 255-bed hospital. The new hospital features:

- A 15-room operating suite and two procedure rooms
- A 3T intraoperative MRI that provides high resolution images before, during and after an operation
- A 320-slice CT scanner
- Computer-based nurse call system
- Six satellite pharmacies
- Dedicated units for pediatric, cardiovascular and neonatal intensive care
- A 64-room Emergency Department with four dedicated trauma rooms
- Hospital rooms designed to accommodate comfortable sleeping space for two family members
- Playrooms and space for families to gather on every inpatient floor
- A mini movie theater and play areas to provide diversionary settings
- Le Bonheur Club Family Resource Center that gives families access to learning materials, Internet and patient educators

Patients moved into the new Le Bonheur Children's hospital on Dec. 4-5. The new hospital is located adjacent to the former hospital, just outside downtown Memphis.



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