

# Newborn Medicine



## A HOME FOR HOPE

When prenatal testing raises alarms...  
when a baby arrives far too soon...  
when birth brings incubators and intubations...  
a family's world turns upside down.

Our promise—do everything in our power to heal  
the sickest babies; support, educate and empower  
their parents; and set the foundation  
for a healthy life



*On the cover and above: Born weighing 1 lb., 12oz., Jace overcame multiple complications during his 137-day NICU stay. Today, he's a thriving preschooler.*

*The Boston Children's Hospital Newborn Medicine Division and Neonatal Intensive Care Unit (NICU) lead the world in research and care for the most gravely ill infants. With an unparalleled depth and breadth of medical and surgical expertise, we find solutions for babies with the most complicated conditions. When other specialists say, "There's no hope," families turn to us.*

*And time and again we deliver. With highly sophisticated technologies to monitor newborns' brains, lungs, and nutritional status; life-changing tools and treatments; family-centered approaches to teach patients to confidently care for medically complex babies at home, we help our NICU babies survive and thrive.*

*We've done so much, but there is so much more we can do.*



Boston Children's has made a state-of-the-art NICU a top priority of the most ambitious campus redesign in the hospital's history. It will be the physical home for technologically sophisticated, family-friendly medical treatment. But true healing requires more than a physical space. It begins with outstanding care in the NICU, fuels pioneering research and engages parents as partners.

**Dream, Dare Deliver:**  
The Campaign for Boston Children's Hospital will transform our NICU and Newborn Medicine Division into a **Newborn Medicine**

**Center** that blends medical, surgical and research prowess with extensive programs to support babies' journey to health through infancy, toddlerhood and beyond.

*Our experts are developing the first system to measure infants' pain, helping doctors optimize medications and better protect babies' brains.*



#1 pediatric hospital

**20+ medical & surgical**  
specialty areas for comprehensive care

With your help, we will:

*Accelerate and disseminate groundbreaking discoveries*

.....

*Create a state-of-the-art NICU that complements our unmatched care*

.....

*Keep babies on the road to health with family support in the NICU and at home*

### **Groundbreaking discoveries**

When a baby's weight is measured in grams, when she has a rare disease few specialists have ever seen, when his life hinges on an alphabet soup of medications and equipment, every step counts. Our physician-researchers lead the globe in neonatal research and constantly strive to uncover and improve ways to care for the most critically ill babies.

### **1st research breakthrough**

*leading to treatment for fatal respiratory distress*

From close to real-time feedback systems that allow doctors to make tiny adjustments in therapies that reap lifelong dividends to stunning new treatments that strengthen and protect our most fragile patients, research priorities include:

*Safeguarding infant brains by refining neuro-imaging tools that pinpoint optimal treatments*

.....

*Enabling neonatologists to individualize treatment with real-time monitoring of organ function, blood flow and oxygen delivery*

.....

*Investigating the promise of stem cells to treat common neonatal diseases, including chronic lung disease and brain injury*

*"There's so much we can do to reverse what was considered hopeless in the past. We can direct the future."*

*—Stella Kourembanas, MD  
Chief, Newborn Medicine*

### **1st successful treatment**

*for fatal liver disease*

## A state-of-the-art NICU

Every parent wants a safe, comfortable nursery for their newborn. NICU parents are no exception. They come to Boston Children's because their babies require superior, high-tech medicine. But our families need much more. They need privacy—to bond, to cry, to celebrate. They need support—to grow as a family and help their babies overcome the odds.

Our NICU, built in the 1980's, falls short. More babies need expert treatment, often for longer stays, so there aren't enough beds to care for all who desperately need our care. Open bays impede privacy; there is not enough room to bring family support services to the NICU. Parents who need services must leave their babies. In our new NICU, we will:

*Increase beds by 25% to accommodate more babies and families*

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*Optimize family bonding by replacing open bays with single rooms*

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*Streamline parents' access to wellness services, respite and training with dedicated family rooms and conference areas*

## 1st brain-imaging systems

*sized for infants*

## Family support

Boston Children's Newborn Medicine team provides superior care for the most fragile infants. In our surgeons' skilled hands, babies with little hope are healed. Medical miracles are made. It is nothing short of amazing, but even with the most successful outcome, parenting a seriously ill infant can take a tremendous toll on families. To help relieve parents' unimaginable stress, Boston Children's offers integrated family support and places parents at the center of care. And because healthy, engaged families help babies reach their maximum potential, we offer education and support in the critical months and years after babies go home.

With your support, we will:

*Immerse parents in targeted training, so they can rehearse care and respond with confidence*

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*Leverage apps and social media to connect with and support families*

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*Expand the Infant Follow-up Program to sustain babies' development*

## 1 person—

*you—can make a tremendous difference*

Dream Dare Deliver: The Campaign for Boston Children's Hospital will create a dramatically healthier future for children everywhere.

Your partnership won't just bring us into that future: it will create it. You will fuel clinical innovations, medical research and new standards of care that bring us ever closer to stamping out childhood disease. Until *every* child is well.

With your participation, Dream Dare Deliver will advance:

*Expanded centers of care and discovery*

.....  
*A campus redesign to ensure our facilities match our world-class care*

.....  
*Research to make today's best programs obsolete*

.....  
*Patient-family programs dedicated to healing*

.....  
*Community and global health initiatives*

Together, we will restore life's possibilities for countless children here and around the globe.

