



# The Ultimate Guide to **UMBILICAL CORD**

*Stem Cell  
Banking*



NE<sub>♀</sub>CBB<sup>®</sup>  
NEW ENGLAND CORD BLOOD BANK, INC.

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*NECBB has been professional, on time, and completely hassle-free for all 5 births.*

***– Peter and Na’ama  
Shrewsbury, MA***





## *What are Stem Cells?*

Stem cells are at the forefront of one of the most fascinating and revolutionary areas of biology today. As 'building block' cells, they have two unique and important characteristics. First, they are unspecialized cells capable of renewing themselves through cell division. Second, under certain conditions, they may be prompted to become a cell with a more specialized function, such as a muscle cell, a red blood cell or a brain cell.<sup>1</sup>

In the past three decades, 40,000+ cord blood stem cell transplants have been successfully performed worldwide. As doctors learn more about the power of stem cell therapy, it is becoming one of the greatest medical breakthroughs of our generation.<sup>2</sup>

Cord Blood Stem Cell Transplants in  
the Past 30 Years

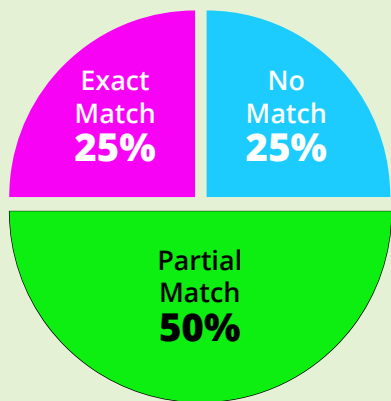
40,000

**80+**  
**DISEASES**

Cord blood stem cells can be used as part of the **treatment** plan for more than 80 diseases

**75%**  
**CHANCE**

of a sibling being an exact or partial human leukocyte antigen (HLA) match



## Cord Blood Stem Cells

After your baby is born, the umbilical cord is clamped and cut. The blood that remains in your newborn's cord contains potentially life-saving stem cells called hematopoietic stem cells (HSCs). These cord blood stem cells have the potential to treat genetic blood disorders, blood-based cancers and immune system deficiencies. Cord blood stem cells can currently be used as part of the treatment plan for **more than 80 diseases**, and research and trials continue to develop potential treatments for many more.

### WHY BANK YOUR BABY'S CORD BLOOD STEM CELLS?

- Provide the potential to save the life of your baby or another family member.
- Improve the likelihood of finding a stem cell match for your family.
- Give your family access to the benefit of future medical advancements that may use cord blood stem cells to treat life's most devastating diseases.
- If you need it, your privately banked cord blood will be immediately available. This expedites the initiation of treatment without spending time searching for a donor match.



## Cord Tissue Stem Cells

The umbilical cord is made up of tissue that contains mesenchymal stem cells (MSCs). These cells can easily make copies of themselves, and are also able to differentiate into a wide variety of cell types. Still in the clinical trial stage, MSCs could possibly be used to treat medical issues involving muscle, bones, cartilage, skin, and even neurons. Current research includes testing for use in treating autism, auto-immune disorders, cerebral palsy, diabetes, eye diseases, lung disease, heart disease, spinal cord injuries and others.<sup>3</sup>

### WHY BANK YOUR BABY'S CORD TISSUE STEM CELLS?

- Banking cord tissue gives your family access to the benefit of potential medical advances using mesenchymal stem cells to treat various injuries and conditions.
- These regenerative cells could be essential in areas of cardiac, neuronal, bone, cartilage, and adipose tissue repair.
- MSC research is advancing more rapidly than any other area of stem cell research.
- Hundreds of clinical trials worldwide have aimed to investigate the use of MSCs in treating a wide variety of conditions and diseases.



*My husband and I have been amazed by all the stem cell research we've been reading. We felt that medical technology is advancing at such a rapid rate that having our child's cord blood could be beneficial in the future. With our family medical history, we knew that cord blood banking was the right choice.*

**- Kristy M.  
Cave Creek, AZ**





## A Simple Procedure

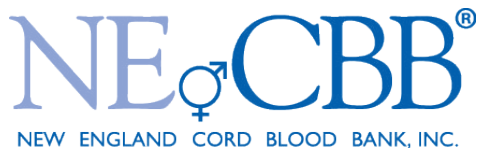
Collecting cord blood and cord tissue with NECBB are painless, simple procedures that poses virtually no risk to mother or baby. These processes are non-invasive and only takes a few minutes.

### **CORD BLOOD:**

Immediately after birth, the umbilical cord is clamped and separated from the baby. At this point, a needle is inserted into the umbilical cord and the blood is drained into a specialized sterile cord blood bag.

### **CORD TISSUE:**

After the cord blood is collected, the portion of the umbilical cord to be collected is cleaned; between 10 and 15 cm. The cord tissue is then cut and placed into the sterile transport solution bottle that will be provided in your collection kit.



Please note: New England Cryogenic Center, Inc.'s activities for New York State residents are limited to collection, processing, and long-term storage of umbilical cord tissue. New England Cryogenic Center, Inc.'s possession of a New York State license for such collection, processing, and long-term storage does not indicate approval or endorsement of possible future uses or future suitability of these cells.



*Ultimately, cord blood banking offers great potential. If someone told you there was a technology that could save your child's life, wouldn't you want to use it? For the cost of a few cups of coffee each week, it's been worth it to us."*

**- Daedra H.,  
New Boston, NH**





# Choose the Best



*We chose NECBB because it offered the same benefits and certifications as other cord blood storage banks with a lower cost and better customer service.*

**-Tami A.**



## **THE MOST EXPERIENCED NAME IN CRYOGENICS**

New England Cord Blood Bank, Inc. is the one of the most experienced and respected private cord blood banks in the world. Headquartered in the Boston, Massachusetts area, we serve clients around the nation and the globe, with international agents in Argentina, Bolivia, Chile, Columbia, Dominican Republic, Ecuador, Guatemala, Jordan, Mexico, Panama, Paraguay, Peru, Uruguay and Venezuela.

## **ADVANCED TECHNOLOGY**

In our laboratory, cord blood stem cells are processed using the Sepax-2 fully-automated system. This method provides the most efficient and consistent processing of umbilical cord blood and is considered the industry gold standard.

## **DEPENDABLE DELIVERY**

The safe, secure shipping of your baby's blood is a top priority. After your birth, NECBB will send a courier to your hospital room to pick up the collection kit for delivery to our laboratory.





## Our Guarantee

### SUCCESSFUL TRANSPLANTS

Though we regret when a family requires access to their umbilical cord blood stem cells to treat disease, we are proud of never having a unit rejected for use subsequent to processing and storage at NECBB.

We guarantee that 100 percent of your baby's stored stem cells will be preserved exclusively for your family.

NECBB will refund all monies paid towards the delivery, processing and storage of any cord blood that is later deemed unacceptable for use in a transplant or fails to engraft in the child during transplant. Additionally, we offer an **\$80,000 Quality Service Engraftment Guarantee**.\*

**\$80,000**

**ENGRAFTMENT  
GUARANTEE\***

For cells collected with NECBB's collection kit and processed and cryopreserved by NECBB.

\*Ask us about the other restrictions and requirements that apply.





## State-of-the-Art Facility

Our state-of-the-art **laboratory** and **cryogenic storage** facility has provided specimens for applications for over 45 years, and we have been processing and storing cord blood for over two decades. Our methods and quality control procedures make us one of the most sophisticated companies in cord blood banking. There is no safer environment for your baby's stem cells than our facility, where we monitor your cells 24 hours a day, seven days a week, 365 days a year.

### UNMATCHED SECURITY

Because we verify, process, cryo-preserve and store your baby's collected cells at one facility, we deliver greater security than many of our competitors. Upon arrival, your baby's cord blood will be logged into our data management system and handled with the utmost care. Each unit of cord blood is processed from start to finish at a single dedicated workstation to ensure proper isolation of the unit and to eliminate the possibility of mislabeling or cross-contamination.

Entry to NECBB's constantly monitored laboratory and storage area is gained only through controlled access points with multiple safeguards that maintain the security of your stored cells.



1  
out of  
217

Chance of *Having*  
a Stem Cell  
Transplant  
by Age  
**70<sup>4</sup>**



## *Licensed and Accredited*

Our processing facility is operated under the strictest guidelines. Our cutting edge laboratory is fully compliant with both federal and state processing laboratory regulations. We are authorized in every state for processing your child's cord blood.

**Food and Drug Administration (FDA)** – Our lab is registered and inspected by the FDA. We are proud that we are among the first cord blood banks to have registered with the FDA.

**AABB** – The AABB (formally known as the American Association of Blood Banks) offers voluntary accreditation for cord blood banks that adhere to their standards. Their accreditation program promotes the highest standards of quality for all aspects of cord blood banking. Ensuring compliance with AABB Standards and federal regulations is one of the pillars of our operation. NECBB is proud to have obtained this accreditation.

Our laboratory staff has been recognized for their accomplishments and dedication to safety and quality from the very prestigious AABB. In addition, several of our lab technicians have successfully completed the rigid and in-depth training required by AABB and are now members of their elite inspection team.

Licensed or permitted by the states of New York, California, Massachusetts, Maryland, New Jersey, Oregon and Illinois.

The Commonwealth of Massachusetts (Lic. #5280), and the states of California (Lic.#9713 and CTB 80440) and New York (Lic. # SC112, SC113, TP122 and CP154) have issued regulations regarding cord blood banking and other cellular therapy products (cord tissue), and we are licensed by all these states.



# 4 Simple Steps

to Banking Your Baby's Stem Cells with NECBB



## ENROLL TODAY

Enroll online at **cordbloodbank.com** or over the phone by calling **888.700.CORD**



## PACK YOUR KIT

Pack the collection kit with the other items you are taking to the hospital. Alert your medical team that you plan to bank your baby's cord blood.



## REST ASSURED

We'll call to let you know when your stem cells have been processed and stored, and will also send out a laboratory report with details of your storage unit.



## CALL US

After delivery and cell collection, call us and we will arrange a courier pickup service. Your collection bag will be picked up promptly and brought to our laboratory for processing and storage.





# Why NECBB?

## FOUR REASONS FOR CHOOSING NECBB:

### EXPERIENCE

No other company can match the cryogenic expertise of our dedicated team. Since 1971, we have been at the top of the cryogenic industry with more than 250,000 cryopreserved units.

### SIMPLICITY

We are dedicated to making your cord blood banking experience as simple as possible.

### SECURITY

Your baby's stem cells will be processed and stored in our single, state-of-the-art facility. Our secure laboratory is AABB accredited, and registered and inspected by the FDA.

### AFFORDABLE

We offer the highest-quality services, technology and facilities available, yet have remained one of the most affordable companies in the U.S.



## HERE'S WHAT OUR CLIENT'S ARE SAYING

*I chose NECBB after researching a number of options and meeting with a representative at a scientific meeting I attended. Among the issues that made a difference to me was that NECBB is a completely private cord blood bank. Banks that have both private and public components often sell their cells, which is something I didn't want. Also, NECBB started as a cryogenic laboratory first, not as a company designed only to store cells like so many of its competitors.*

**Alison J., Atlanta, GA**

*We need to stop throwing out these stem cells as medical waste: they are pure gold. I enrolled in this program at NECBB as an insurance policy for my kids. I hoped that I would never need these stem cells. By using a private bank, we had our own stem cells for our own use. Now, I'm so glad we made this decision. NECBB was knowledgeable to work with, no stress at all. I heard from various social media groups that parents discovered that their stem cell samples were contaminated after*

*they applied for a trial. Other families couldn't get their medical reports or specimens released from their cord blood bank. These other banks put their children's acceptance in the trial at risk.*

**Anna D, Burlington, MA**

*After missing the opportunity to bank with our first son, my wife and I did the research and compared ALL cord blood banks for our future children. We initially liked NECBB because of the local presence and quick response with information, compared to other blood banks in the market, but as we continued our research, we found your website informative, your staff knowledgeable, professional and helpful. After such a good experience with our second son's cord blood, there was no question about banking with NECBB again for our baby girl. We believe that word of mouth speaks volumes and will continue to recommend NECBB to all our friends with expanding families.*

**Greg & Summer**



# REFERENCES

1. *Stem Cell information*, National Institute of Health, August 2018, <https://stemcells.nih.gov/info/basics/1.htm>
2. *Cord Blood Infographic*, Parent's Guide to Cord Blood, August 2018, <https://parentsguidecordblood.org/en/cord-blood-infographic>
3. Parent's Guide to Cord Blood, (<https://parentsguidecordblood.org/en/trials-umbilical-cord-tissue>)
4. Parent's Guide to Cord Blood, August 2018, <https://parentsguidecordblood.org/en/cord-blood-infographic>