

# INFORMATION KIT

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H  P E

IS IN YOUR NEWBORN'S BLOOD

Help it last a lifetime with cord blood banking

Save \$250  
off Cord Blood +  
Tissue with code  
CORD250T



**PREMIERMAX®**

Most **SCIENTIFICALLY** advanced Cord Blood processing available



# CORD BLOOD STEM CELLS

Umbilical cord blood is unique and is only available for collection immediately after childbirth. Unlike mature blood, umbilical cord blood contains high numbers of stem cells that were used to create life.



## A Potentially Lifesaving Resource...

Known as hematopoietic stem cells (HSCs), cord blood contains cells that can be programmed by the body to become any type of blood component, including red blood cells, white blood cells, and platelets.

These unique stem cells can be saved immediately after the baby is born for potential future medical use. If needed, they can be thawed and transfused into the bloodstream to regenerate the immune system.

A 100% genetic match to baby, cord blood stem cells can also be used to treat siblings and other family members.

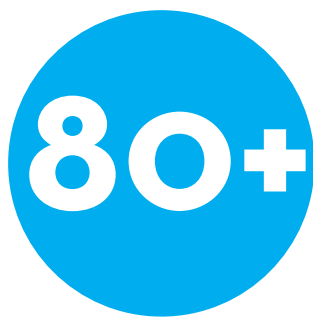
## ...For 25 Years.

In thinking about banking your newborn's umbilical cord blood, an important consideration is how long it will be a potentially life saving resource. Stem cells have already been safely stored and proven viable after 25 years.

It's possible that they can be effective after even longer storage periods. However, the science is so new, there hasn't been enough time working with them to understand their full longevity. Each year that goes by brings us insights into what's possible for storing and using cord blood. So far, it has all been positive.







# FDA APPROVED DISEASES FOR CORD BLOOD

## CHILDHOOD CANCERS - SOLID TUMORS

- Neuroblastoma
- Retinoblastoma
- Medulloblastoma

## LEUKEMIAS

- Acute Lymphoblastic Leukemia (ALL)
- Acute Myelogenous Leukemia (AML)
- Acute Biphenotypic Leukemia
- Acute Undifferentiated Leukemia

## CHRONIC LEUKEMIA

- Chronic Myelogenous Leukemia (CML)
- Juvenile Chronic Myelogenous Leukemia (JCML)
- Juvenile Myelomonocytic Leukemia (JMML)
- Chronic Lymphocytic Leukemia (CLL)

## MELODYPLASTIC SYNDROMES (sometimes called

- pre-leukemia)
- Refractory Anemia
- Refractory Anemia with Ringed Sideroblasts
- Refractory Anemia with Excess Blasts
- Refractory Anemia with Excess Blasts in Transformation
- Chronic Myelomonocytic Leukemia (CMML)

## LYMPHOMAS

- Hodgkin's Lymphoma
- Non-Hodgkin's Lymphoma (Burkitt's Lymphoma)

## OTHER DISORDERS OF BLOOD CELL PROLIFERATION

### Anemias

- Aplastic Anemia
- Congenital Dyserythropoietic Anemia
- Fanconi Anemia
- Paroxysmal Nocturnal Hemoglobinuria (PNH)

### Inherited Red Cell (Erythrocyte) Abnormalities

- Beta Thalassemia Major (also known as Cooley's Anemia)
- Diamond-Blackfan Anemia
- Pure Red Cell Aplasia
- Sickle Cell Disease

### Inherited Platelet Anomalies

- Amegakaryocytosis / Congenital Thrombocytopenia
- Glanzmann Thrombasthenia

### Inherited Immune System Disorders: Severe Combined Immunodeficiency (SCID)

- SCID with Adenosine Deaminase Deficiency (ADA-SCID)
- SCID which is X-linked
- SCID with absence of T & B Cells
- SCID with absence of T Cells, Normal B Cells
- Omenn Syndrome

### Inherited Immune System Disorders: Neutropenias

- Infantile Genetic Agranulocytosis (Kostmann Syndrome)
- Myelokathexis

### Inherited Immune System Disorders-Other

- Ataxia-Telangiectasia
- Bare Lymphocyte Syndrome
- Common Variable Immunodeficiency
- DiGeorge Syndrome
- Leukocyte Adhesion Deficiency

- Lymphoproliferative Disorders
- Lymphoproliferative Disorder, X-linked (also known as Epstein-Barr Virus Susceptibility)
- Wiskott-Aldrich Syndrome

### Myeloproliferative Disorders

- Acute Myelofibrosis
- Agnogenic Myeloid Metaplasia (Myelofibrosis)
- Polycythemia Vera
- Essential Thrombocythemia

### Phagocyte Disorders

- Chediak-Higashi Syndrome
- Chronic Granulomatous Disease
- Neutrophil Actin Deficiency
- Reticular Dysgenesis

### Cancers in the Bone Marrow

- Multiple Myeloma
- Primary Plasma Cell Leukemia (PCL)
- Secondary Plasma Cell Leukemia (PCL)
- Waldenstrom's Macroglobulinemia

## INHERITED DISORDERS AFFECTING THE IMMUNE SYSTEM AND OTHER ORGANS

- Cartilage-Hair Hypoplasia
- Gunther's Disease (Erythropoietic Porphyria)
- Hermansky-Pudlak Syndrome
- Pearson's Syndrome
- Shwachman-Diamond Syndrome
- Systemic Mastocytosis

## INHERITED METABOLIC DISORDERS

### Mucopolysaccharidosis (MPS) Storage Diseases

- Hurler Syndrome (MPS-IH)
- Scheie Syndrome (MPS-IS)
- Hunter Syndrome (MPS-II)
- Sanfilippo Syndrome (MPS-III)
- Morquio Syndrome (MPS-IV)
- Maroteaux-Lamy Syndrome (MPS-VI)

### Sly Syndrome, Beta-Glucuronidase Deficiency (MPS-VII)

- Mucopolipidosis II (I-cell Disease)

### Leukodystrophy Disorders

- Adrenoleukodystrophy (ALD) / Adrenomyeloneuropathy (AMN)
- Krabbe Disease (Globoid Cell Leukodystrophy)
- Metachromatic Leukodystrophy
- Pelizaeus-Merzbacher Disease

### Lysosomal Storage Diseases

- Niemann-Pick Disease
- Sandhoff Disease
- Wolman Disease

### Inherited Disorders-Other

- Lesch-Nyhan Syndrome
- Osteopetrosis

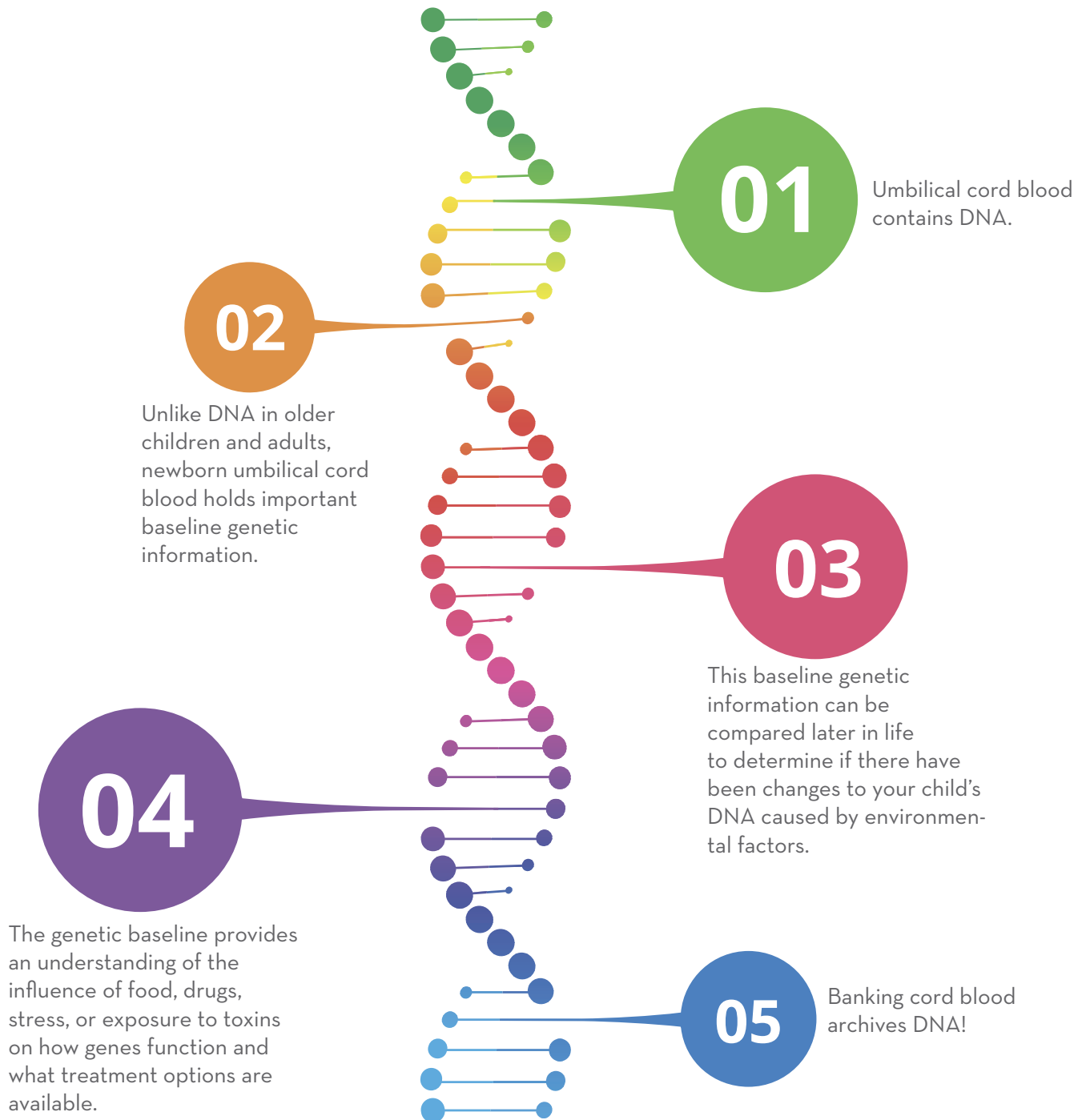
DISEASES TREATED USING UMBILICAL CORD BLOOD STEM CELLS

Source: Parent's Guide to Cord Blood Foundation

<https://parentsguidecordblood.org/en/diseases>



# STEM CELLS HOLD VALUABLE GENETIC INSIGHTS





# BETTER THAN BONE MARROW

Historically, HSCs have only been available from bone marrow and peripheral blood transplants. Today, HSCs from baby's umbilical cord blood are far superior both medically and financially.



## Higher Utility



Cord blood stem cells are **a perfect match to your child**. Finding a matching unrelated donor is less certain.



Cord blood is collected in advance, tested, and stored frozen, **ready for use**. Bone marrow donation requires surgery to harvest it for transplant.



A **small volume** of cord blood can be used in transplants, while bone marrow transplants require a quart or more of bone marrow and blood.

## Lower Risk of Complications



Cord blood transplants have a **lower incidence of graft-vs-host disease**. (10% for cord blood vs. 60% for bone marrow).



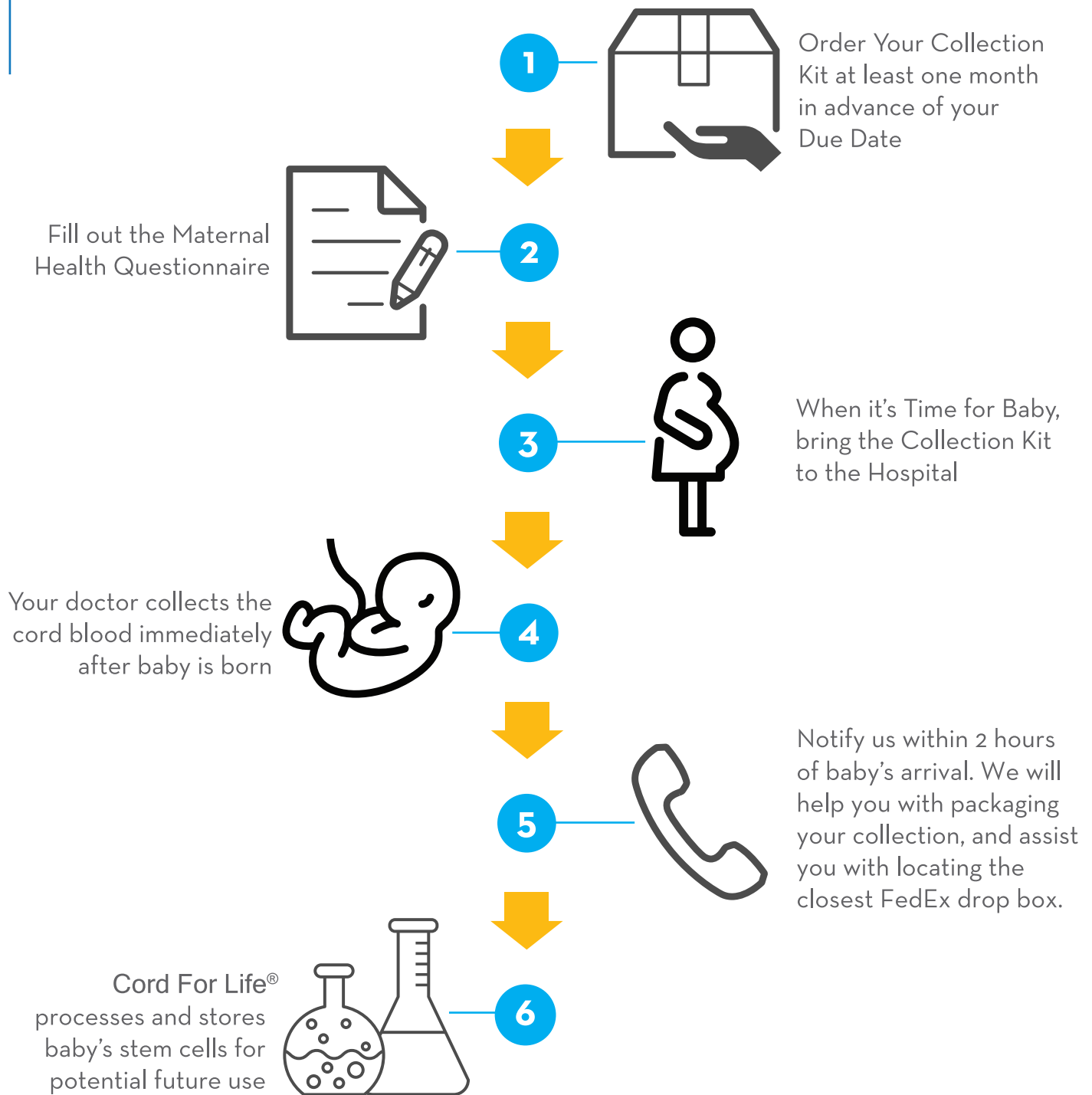
Cord blood transplants have a **low risk of tumor growth**, low risk of viral contamination, and **high cell proliferation** capacity.



**Latent viral infection is rare** in cord blood. Cytomegalovirus (CMV) infection is present in <1% of U.S. cord blood donors, but >50% of U.S. adult bone marrow donors.

Source: Bioinformant Worldwide, LLC: Complete 2015 - 2016 Global Cord Blood Banking Industry Report

# CORD BLOOD BANKING – HOW IT WORKS





# HOW TO CHOOSE A CORD BLOOD BANK

It's often hard to know what to ask when choosing a cord blood bank. There is a lot of information to think about, and sorting through the choices can feel overwhelming.

**We want to make things simple.** Cord blood stem cells don't regenerate, meaning there is only a limited amount available for future use. Therefore, **recovering the maximum number of stem cells is the highest priority.** It's also important that the stem cells are safe for transplant and that your stem cells will be available for as long as you may need them.



## 1 Don't be fooled!

Some banks entice you with claims based on their record stem cell yield. Your individual results depend on two things: the amount of cord blood collected and the amount of stem cells recovered from it. Since the volume of blood is determined in the delivery room, the question you need to answer is "Which cord blood bank can get the most stem cells out of my cord blood collection volume?"

## 2 Know the facts behind stem cell recovery

The processing method makes all the difference in the number of stem cells recovered. Simply put, to get the most stem cells from any cord blood collection, choose the bank with the best processing method. Most banks use hetastarch, a first generation method which recovers slightly more than half the stem cells (55.48%). **Our PREMIERMAX® method is proven to be far superior, recovering almost 75% of the stem cells<sup>1</sup>.**

## 3 Ensure transplant safety

When it's time for a transplant, your stem cells must be as free from contaminants as possible. The biggest worry is red blood cells. The fewer the red blood cells, the safer the transplant. Red blood cells tend not to survive the freezing and thawing process. Their cell membranes rupture, spilling the contents, which include the hemoglobin and empty membrane sacks called red cell "ghosts". This debris can make patients sick following transplant. **Our PREMIERMAX® method removes 98.5% of the red blood cells, compared to 33.45% for hetastarch - a clear difference.**

In terms of transplant safety, cryo-preserved is something else to think about. Chemicals that protect stem cells during freezing can lead to adverse reactions following transplant. We use a cryo-preserved that is less toxic, so that the patient's body can fight the disease, not the cure.

## 4 Trust your stem cells will be there 25 years from now

You're banking stem cells for the future, so you'll want to be confident you've got the best team behind you. Look for a company that has invested in the business, has a history in the cord blood industry, and is experienced in testing, processing, and storing cord blood stem cells. Unlike marketing companies who don't own a lab, we're a full-service cord blood bank that supports you from collection through transplant.

1. The Cell Therapy Research Institute and the NewCastle Centers for Cord Blood published a study concluding the reagent used in our PREMIERMAX® method is superior to hetastarch.





# 10 QUESTIONS TO ASK EVERY BANK

These 10 questions will help you quickly find the best option for your family – the most stem cells, safest transplants, guaranteed quality and a reliable bank.

**CORD  
FOR  
LIFE®**

## FACT

<b>1. Do you use FDA approved anticoagulants in your collection kit?</b>	There's only one FDA approved anti-coagulant for cord blood banking - CPD (Citrate Phosphate Dextrose)	Yes
<b>2. How do you recover the stem cells from cord blood?</b>	We use a proprietary method proven superior by 3rd party researchers for recovering stem cells and reducing contamination.	Yes
<b>3. What percentage of stem cells does your method recover?</b>	Approximately 75% for our method vs. approximately 56.5% for Hetastarch.	~75%
<b>4. Have your stem cell yields been verified and published by unbiased 3rd party research?</b>	The only way to verify product claims is to turn to unbiased research. If a company can't back up their science with research, be skeptical.	Yes <sup>1</sup>
<b>5. What percentage of red cells does your method remove?</b>	It's important to remove the red blood cells, which rupture during freezing and may cause illness following transplantation.	98.5% <sup>2</sup>
<b>6. Do you offer a 5-compartment storage bag?</b>	A five compartment bag gives you the flexibility to use a small portion of cord blood, instead of the entire unit.	Yes
<b>7. What is your quality guarantee should the stem cells fail to engraft?</b>	The quality guarantee is your financial insurance that your child will be able to receive a stem cell transplant, even if their own cells don't engraft.	\$100,000 <sup>2</sup>
<b>8. Do you own your Lab?</b>	Some companies merely market cord blood and outsource the processing and storage. Why work with a middle man?	Yes
<b>9. How many units have you released?</b>	The units released are a good indicator of experience in properly handling the unit for shipment.	2,220+
<b>10. What is your total cost for 20 years of Storage?</b>	High price doesn't always mean high quality.	\$3,299 <sup>3</sup>

1. The Cell Therapy Research Institute and the NewCastle Centers for Cord Blood published a study concluding the reagent used in our PREMIERMAX® method is superior to hetastarch. 2. Subject to the conditions detailed in our Terms and Conditions. 3. Based on our prepaid storage option, including collection, processing and 20 years of storage



[www.cordforlife.com](http://www.cordforlife.com)

800-869-8608 or 407-834-8333





# WHAT MAKES CORD FOR LIFE® DIFFERENT?

By choosing Cord for Life® you can rest assured that you'll have the highest quantity and quality of stem cells available when you need them most.



## We Focus on Healthy Patients

When developing our processing method, we evaluated quality, safety, flexibility, and cost - the same things every parent should consider when choosing a cord blood bank. We developed **PREMIERMAX®** as the premiere process for maximum stem cell yield. We developed a highly effective process for stem cell recovery, cryo-preservation, and Quality Control that goes above and beyond industry requirements.

**Unbiased research team concluded that our process provides the most efficient recovery, the highest red cell depletion, and a lower risk of contamination.**

We also chose to safely prepare the stem cells for storage by using a cryo-preservative that has lower toxicity. In addition, anticipating the many treatment possibilities, we offer two ways to compartmentalize the stem cells - a standard 2-compartment bag and our optional 5-five compartment bag that allows for the use of smaller doses and multiple uses.

## Peace of Mind. Guaranteed.

We stand behind our products 100% and back our commitment with the highest Quality Guarantee in the Cord Blood Banking industry¹. Our guarantee states that if your child's cord blood stem cells fail to engraft during a transplant due to product defect, we will replace them with a suitable match from our own public banking inventory. Should a suitable match not be available, we will pay up to \$100,000¹ to defray the cost of procuring an alternative stem cell source as determined by your doctor.



## Experience Matters

With over 2,200 cord blood units released, we've provided families and medical professionals the stem cell treatments they need for over 20 years. We understand the importance of stem cells and know how to collect, process, and store them for best results.

1. Subject to the conditions detailed in our Terms and Conditions



# A LETTER FROM OUR PRESIDENT



Thank you for taking the time to learn more about the potential of stem cells from your newborn's umbilical cord blood. We created this Information Guide to help families make the most informed decision about their stem cells banking choices.

At Cord For Life<sup>®</sup>, we believe in the power of stem cells. Since our founding, we have been a full-service cord blood bank. We've been involved in releasing over 2,200 cord blood units for transplants, clinical trials, and research. We're inspired each time by the families and medical professionals we've helped use cord blood stem cells to treat their loved ones.

Having been a part of such an important treatment opportunity for so many families, we feel an obligation to get the most from every stem cell collection. We know that the ultimate measure of success is a healthy patient, and we want to be sure we do everything possible to ensure each family gets the best results.

We focus on what matters – getting as many stem cells as possible, ensuring the highest quality, and giving parents the highest level of support.

We are here to answer any questions you may have and hope that you will consider Cord For Life<sup>®</sup> for your cord blood banking needs.

Sincerely,

SYED RAHEEL  
*President & CEO*  
Cord For Life<sup>®</sup>, Inc



WHEN YOU LOVE WHAT YOU HAVE,  

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YOU HAVE EVERYTHING  
YOU NEED

