Diseases Treated with Stem Cells

Since 1988, doctors have been using cord blood in lifesaving treatments. Stem cell research holds so much promise that the number of diseases and injuries being treated is growing rapidly. For the most updated list, visit cordblood.com

Leukemias, Lymphomas and Other Blood Cancers
- Acute Biphenotypic Leukemia
- Acute Lymphocytic Leukemia (ALL)
- Acute Myelogenous Leukemia (AML)
- Acute Undifferentiated Leukemia
- Adult T Cell Leukemia/Lymphoma
- Chronic Lymphocytic Leukemia (CLL)
- Chronic Myelogenous Leukemia (CML)
- Hodgkin's Lymphoma
- Juvenile Chronic Myelogenous Leukemia (JCM)
- Juvenile Myelomonocytic Leukemia (JML)
- Multiple Myeloma
- Myeloid/Natural Killer (NK)
- Cell Precursor Acute Leukemia
- Non-Hodgkin's Lymphoma
- Prolymphocytic Leukemia
- Plasma Cell Leukemia
- Waldenstrom's Macroglobulinemia

Other Cancers
- Brain Tumors
- Ewing Sarcoma
- Neuroblastoma
- Ovarian Cancer
- Renal Cell Carcinoma
- Rhabdomyosarcoma
- Small-Cell Lung Cancer
- Testicular Cancer
- Thymoma (Thymic Carcinoma)

Bone Marrow Failure Disorders
- Aplastic Anemia (Severe)
- Blackfan-Diamond Anemia
- Congenital Cytopenia
- Congenital Dyserythropoietic Anemia
- Dyskeratosis Congenita
- Fanconi Anemia
- Paroxysmal Nocturnal Hemoglobinuria (PNH)
- Pure Red Cell Aplasia

Hemoglobinopathies
- Beta Thalassemia Major
- Sickle Cell Disease

Histiocytic Disorders
- Familial Erythrophagocytic Lymphohistiocytosis
- Hemophagocytosis
- Langerhans' Cell Histiocytosis (Histiocytosis X)

Myelodysplastic/Myeloproliferative Disorders
- Acute Myelofibrosis
- Agranular Myeloid Metaplasia (Myelofibrosis)
- Amyloidosis
- Chronic Myelomonocytic Leukemia (CML)
- Essential Thrombocythemia
- Polycythemia Vera

Refactory Anemias (RA) including:
- Refractory Anemia with Excess Blasts (RAEB)
- Refractory Anemia with Excess Blasts in Transformation (RAEB-T)
- Refractory Anemia with Ringed Sideroblasts (RARS)

Inherited Metabolic Disorders
- Adrenoleukodystrophy
- Gaucher Disease
- Hunter Syndrome (MPS-II)
- Hurler Syndrome (MPS-IH)
- Krabbe Disease
- Lesch-Nyhan Syndrome
- Mannosidosis
- Maroteaux-Lamy Syndrome (MPS-VI)
- Metachromatic Leukodystrophy
- Mucolipidosis II (I-cell Disease)
- Neuronal Ceroid Lipofuscinosis (Batten Disease)
- Niemann-Pick Disease
- Sandhoff Disease
- Sanfilippo Syndrome (MPS-III)
- Scheie Syndrome (MPS-I)
- Sly Syndrome (MPS-VII)
- Tay Sachs
- Wolman Disease

Inherited Immune System Disorders
- Chronic Granulomatous Disease
- Congenital Neutropenia
- Leukocyte Adhesion Deficiency
- Severe Combined Immunodeficiencies (SCID) including:
  - Adenosine Deaminase Deficiency
  - Bare Lymphocyte Syndrome
  - Chediak-Higashi Syndrome
  - Kostmann Syndrome
  - Omenn Syndrome
  - Purine Nucleoside Phosphorylase Deficiency
  - Reticular Dysgenesis
  - Wiskott-Aldrich Syndrome

X-Linked Lymphoproliferative Disorder

Other Inherited Disorders
- Cartilage-Hair Hypoplasia
- Congenital Erythropoietic Porphyria (Gunnther Disease)
- DiGeorge Syndrome
- Osteopetrosis

Other
- Chronic Active Epstein Barr
- Evans Syndrome
- Multiple Sclerosis
- Rheumatoid Arthritis
- Systemic Lupus Erythematosus
- Thyroid Dysplasia

Clinical Trials
- Neonatal Brain Injury
- Cerebral Palsy
- Type 1 Diabetes

This list includes some diseases that have been treated with bone marrow or peripheral blood stem cells but have not yet been treated with cord blood stem cells. Source: Medical Literature and clinicaltrials.gov

*Not eligible for CBR's Designated Treatment Program*
Why is it so important to save my baby’s umbilical cord blood?

Cord blood, which is the blood that remains in your baby’s umbilical cord after the cord has been cut, is an invaluable source of stem cells that are unique to your baby and family. These cells can be used in a variety of medical treatments. Having cord blood available can be lifesaving to your newborn or a family member and can help you protect your baby:

- Your baby’s cord blood stem cells may be used by your family to treat nearly 80 serious diseases, including leukemia, other cancers, and blood disorders.

- Cord blood stem cells are showing significant potential to treat conditions that have no cure today—like juvenile diabetes and brain injury.

- Saving your baby’s cord blood can bring you peace of mind knowing you may have secured the best treatment option for your family—giving you an important advantage for a healthy future.

Take advantage of your one chance to save your baby’s cord blood—immediately after birth. Collecting cord blood is safe for the mother and newborn and may take place following C-sections.

“Having fully banking for recommend

“When we found out that saving our baby’s cord blood with CBR could save our baby’s life someday—or someone else in the family—there was no question that it was worth it. And it costs less than my daily coffee.”

-Erica C.
CBR client who banked cord blood for all three children

home or auto insurance, saving your newborn’s stem cells could the lifesaving potential of stem cells is priceless.

NEW!

Cord Tissue Banking

<table>
<thead>
<tr>
<th>Service</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-Time Preparation Fee</td>
<td>$595**</td>
</tr>
<tr>
<td>First Year of Storage</td>
<td>$125*</td>
</tr>
<tr>
<td>One-Step Shipping (included with cord blood banking)</td>
<td>$0</td>
</tr>
<tr>
<td>Total First-Year Fees</td>
<td>$720</td>
</tr>
</tbody>
</table>

Prices subject to change. All major credit cards accepted. Prepayment discounts are available.
*After the first-year fees, an annual storage charge of $125 (for each service) maintains your account
**Cord tissue banking is $595 when you also bank cord blood. Banking cord tissue only is $1,095 plus $150 for shipping and $125 for the first year of storage.

3 Easy Steps to Banking with CBR

1. Ask your doctor for a CBR Collection Kit, or order one by calling 1-888-267-3256
2. Take your kit to the hospital when you go into labor
3. Make one call after the collection for courier pickup and express shipment to our lab

1-888-CORD BLOOD
cordblood.com

Institute of Neurological Disorders and Stroke workshop on perinatal and childhood stroke. Pediatrics. 2003;112:116-133
Source for CB/Cord Blood Registry. The Name to Trust®
researched cord blood
my own family, I now strongly
it to my patients."

―Dr. Robert Sears
Pediatrician Robert Sears, MD, FAAP, is a noted author,
CBR medical advisor, CBR client, and the father of three boys.

Priceless Protection, Peace of Mind
Compared to the other ways you already protect your family, such as offer the most valuable protection of all. Because if you ever need it,

<table>
<thead>
<tr>
<th>Cord Blood Banking</th>
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<tr>
<td>One-Time Processing Fee</td>
<td>$1,920</td>
</tr>
<tr>
<td>First Year of Storage</td>
<td>$125*</td>
</tr>
<tr>
<td>One-Step Shipping™ Service</td>
<td>$150</td>
</tr>
<tr>
<td><strong>Total First-Year Fees</strong></td>
<td><strong>$2,195</strong></td>
</tr>
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</table>

No fees are due until your baby arrives.
Payment plans as low as $61/month for 48 months.
Save both cord blood and cord tissue for only $81/month for 48 months.
See cordblood.com for payment plans and conditions.

How can my family use my baby’s cord blood?
Your baby’s cord blood may be used by your family in two areas of medicine. Transplant medicine uses stem cells to help treat serious diseases, such as cancers or blood disorders. Regenerative medicine is a new and rapidly advancing area of medicine focusing on developing treatments using stem cells to repair damaged tissues and organs, which may help your baby in case of disease or injury.

<table>
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<th>Transplant Medicine</th>
<th>Regenerative Medicine</th>
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<td><strong>How is cord blood used?</strong></td>
<td><strong>Based on current research, doctors believe that cells in cord blood can induce healing and may help in regenerating cells to repair tissues, such as nerve and heart.</strong></td>
</tr>
</tbody>
</table>

Cord blood is used like bone marrow to regenerate a healthy blood and immune system after chemotherapy.

Who can use cord blood?
- Your baby
- Your baby’s siblings
- Your (baby’s biological parents)

(Ultimate use will depend on the physician’s determination of disease type and HLA matching for donor and recipient.)

*For some conditions, a sibling’s cord blood may be preferable.

New uses for cord blood stem cells are being discovered rapidly, however, banking cord blood does not guarantee that the cells will provide a cure or be applicable for every situation. Ultimate use will be determined by the treating physician. Use in regenerative medicine is still considered experimental.

Ask your doctor for a CBR Collection Kit today, or call
1-888-CORD BLOOD (1-888-267-3256)
Monday - Friday, 6:00 am - 9:00 pm PT • Saturday - Sunday, 6:00 am - 4:00 pm PT
And visit cordblood.com


1-888-CORD BLOOD cordblood.com
Is it important to have my family’s own stem cells available?

Yes. For regenerative medicine therapies, the child’s own cord blood is required. For transplant medicine, using your own family’s cord blood can have significant advantages including fewer complications, improved survival (see chart), and a better quality of life without the need for anti-rejection medications. Siblings have up to a 75% chance of using each other’s cord blood, compared to only 25% with bone marrow.

Higher Survival with Your Family’s Own Cord Blood

| Sibling/Related Transplants (Family Banks) | 63% |
| Unrelated/Donor Transplants (Public Banks) | 29% |

How likely is it that my family will need to use stem cells?

Although no one can predict future illness or injury, published estimates of the odds of needing stem cells for current uses in transplant medicine are 1 in 217. The most common diseases treated with cord blood are not hereditary and occur without warning.

Based on current data, cord blood stem cells should remain useful indefinitely, so your family may be able to use the cells for diseases and injuries that occur decades from now. The fastest growing use of cord blood stem cells for CBR families has been in regenerative medicine for the potential treatment of brain injury and juvenile diabetes.

If you don’t save your baby’s cord blood today, you may be passing up the best medical treatment option for tomorrow.

Cord Blood Bank

Most Experience with Client Treatments

When families need us most, we are there. CBR has helped more clients use their stem cells for lifesaving transplants and regenerative medicine therapies—double that of any other family bank. All of the cord blood units released for client use have been viable for use in treatments.

“We saved our youngest son Keldan’s cord blood because of the peace of mind banking would give us. We never expected we would need it to save Keegan’s life. But we did.”

—Wendy Doheney
Mother of Keldan and Keegan (leukemia survivor)

Long-Term Stability You Can Count On

CBR leaves nothing to chance, including the highly safe location of our laboratory in Tucson, Arizona. Tucson is one of the safest cities in the nation in terms of risk from hurricanes, floods, earthquakes, winter storms, and other natural disasters. Additionally, our track record of long-term stability and financial strength means you can rest assured that we will be here for you in the future.
“Cord blood was Chloe’s chance for a new life.”

“At nine months old, Chloe couldn’t use her right hand or leg. We were devastated when she was unexpectedly diagnosed with a brain injury [stroke] that occurred before she was born. Thankfully, we had saved her cord blood stem cells with CBR, which enabled her to have an experimental cord blood treatment. Now, after her cord blood infusion, Chloe is able to catch a ball and run—fast.”

–Ryan and Jenny Levine
Parents of Chloe,
Strokes occur in as many as 1 in 4,000 babies per year.8

NEW! Cord Tissue Banking Only from CBR*®

Introducing a new resource for protecting your family’s health—banking your baby’s umbilical cord tissue.

CBR now offers you the opportunity to save a segment of your baby’s umbilical cord (cord tissue)—which is one of the richest sources of a type of valuable stem cell called mesenchymal stem cells (MSCs). This type of cell holds tremendous promise in a number of emerging medical treatments. Cord tissue cells are different from those found in cord blood and may help repair the body in different ways.

Today, with more than 80 clinical trials10 underway using MSCs, a broad range of debilitating health conditions and everyday injuries may soon be successfully treated, including spinal cord injury, heart repair following a heart attack, bone repair, and cartilage regeneration.

Saving the different types of genetically unique cells from both your baby’s cord tissue and cord blood provides the greatest level of protection and peace of mind knowing that if needed, the cells you have stored can be a powerful resource for your family’s future health.

For more information about the value of banking your newborn’s cord tissue, please visit:
cordblood.com

More Families and Doctors Choose CBR

CBR has saved cord blood for more than 325,000 newborns. Our superior technology, leadership in regenerative medicine, and strong commitment to families have shaped who we are today: the #1 choice of Ob/Gyns and expectant families. As the leading innovator in newborn stem cell banking for more than 15 years, CBR is the only bank to provide storage for stem cells contained in both umbilical cord blood and umbilical cord tissue.

CBR CellAdvantage® Saves More Cord Blood Cells Than Any Other Bank

Having more cells for treatment is important because it can increase survival for someone in your family if it is needed for transplant11 or offer the chance for multiple uses in regenerative medicine. That’s why it is our goal to collect the highest volume of cord blood and to save the greatest number of stem cells for your family. CBR’s unique CellAdvantage system for collecting and processing cord blood saves up to twice the number of cells for your family.* The combination of CBR’s new collection bag technology and our proprietary dry heparin anticoagulant (which helps preserve the cord blood during transport to the lab) improves our ability to save every stem cell possible for your child. Because it is found naturally in the human body, heparin is ideal for protecting cells and has been safely used for decades.

*Based on published data and data on file.12 13

CBR CellAdvantage Saves Up to 2X More Cells

1-888-CORD BLOOD
The Healing Potential of Your Newborn’s Stem Cells

Stem cells may help restore health by regenerating cells or stimulating healing. Collecting both your baby’s cord blood and cord tissue provides the greatest level of protection and peace of mind.

**CORD BLOOD**

- **Hematopoietic Stem Cells (HSCs)**
  - A rich source of hematopoietic stem cells, which create the blood and immune system
  - Proven effective for 20+ years in transplant medicine and used to treat nearly 80 serious diseases, including cancers and blood disorders
  - Recent promise in treating brain injury and juvenile diabetes
  - Survival is improved when a family’s own cells are used (and a lower risk of rejection)
  - Immediately available if ever needed for treatment
  - Access to stem cells with a known genetic history
  - Cells should last in storage indefinitely

**CORD TISSUE**

- **Mesenchymal Stem Cells (MSCs)**
  - A rich source of mesenchymal stem cells, which create structural and connective tissue and have a role in supporting immune repair
  - 80+ clinical trials using MSCs underway
  - Strong potential to repair heart tissue, regrow blood vessels, and fix connective tissue
  - Cells may be expanded, giving your family a potentially unlimited supply

New uses for cord blood stem cells are being discovered rapidly, however, banking cord blood does not guarantee that the cells will provide a cure or be applicable for every situation. Ultimate use will be determined by the treating physician. Use in regenerative medicine is still considered experimental. Medical treatments using cord tissue are still under development and have not yet been used in humans.

1-888-CORD BLOOD
cordblood.com