

10 Amazing Things About Newborn Stem Cells

From clinical trials to affordable payment options, this guide contains what you need to know about these powerful little cells.





1

They're Smart

Newborn stem cells know how to find injured cells and tissue in the body and can potentially start the healing process in certain conditions.¹

Collected after birth by your healthcare provider, umbilical cord blood and cord tissue are packed with precious stem cells - newborn stem cells - that you can have preserved for potential future use for your family.

[WATCH CORD BLOOD 101 »](#)

2

The Perfect Pair

Umbilical cord blood and cord tissue contain powerful sources of different types of stem cells that have the potential to be used in different ways.

[WATCH CORD TISSUE 101 »](#)



Cord Blood

- Contains hematopoietic stem cells
- Building blocks of blood and immune systems
- 80+ uses in transplant medicine
- Clinical trials in regenerative medicine



Cord Tissue

- Contains mesenchymal stem cells
- Anti-inflammatory properties
- Clinical trials in regenerative medicine



3

A Perfect Match for Your Baby

Your baby is always a perfect genetic match to his or her cord blood stem cells. Full siblings have a 75% chance of being at least a partial genetic match.

Most families choose to bank for each child. Why? By preserving newborn stem cells for each child, you are ensuring you have a perfect match and multiple options for future potential use.

[WHO CAN USE NEWBORN STEM CELLS? »](#)

4

30+ Years of Helping People

The first stem cell transplant took place in 1988 in France, where it saved the life of a 5-year-old diagnosed with Fanconi Anemia. Since then, over 40,000 patients worldwide have benefited from using cord blood stem cells from both public and private banks.²

“There’s only two things that (you can) potentially buy your new baby that are lifesaving: One is a good car seat and the other is cord blood.”

Dr. Marra Francis, OB/GYN, CBR Medical Consultant

What is transplant medicine? When blood or immune-related conditions like leukemia or sickle cell anemia occur, sometimes the bone marrow needs to be “reset.” One of the necessary steps is the use of healthy, matched stem cells to rebuild the immune system.



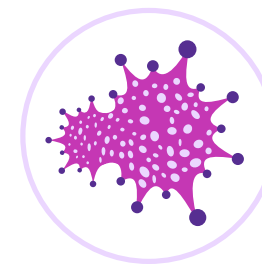
5

80+ Conditions Already Being Treated

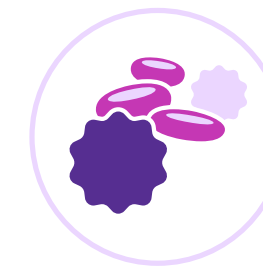
Newborn stem cells have been used to help treat certain blood disorders, cancers, immune disorders and more, as part of a stem cell transplant.



Blood Disorders



Cancers



Immune Disorders



Metabolic Disorders

[SEE HOW ONE CBR FAMILY OVERCAME LEUKEMIA »](#)

6

A Bright Future for Regenerative Medicine

Regenerative medicine aims to restore or establish normal function in the body. While the science is still in research, we envision a future where newborn stem cells are used to help treat conditions that currently have no cure.

Umbilical cord tissue is a rich source of mesenchymal stem cells (MSCs). MSCs are among the most widely researched cell types in the field of regenerative medicine, which makes their potential super exciting.³

More than 600 clinical trials have been initiated researching the use of cord tissue stem cells as a potential treatment for conditions like:^{4,5}

Autoimmune	Orthopedic
Lupus, type 1 diabetes, bowel inflammation	Osteoarthritis, spinal cord injury, bone nonunion
Cardiovascular	Tissue or organ damage
Heart disease, vascular damage, damage from heart attack	Liver disease, lung disease, reproductive-related conditions, wounds
Neurological (Acquired)	Neurological (Degenerative)
Stroke, cerebral palsy, HIE	Parkinson's, Alzheimer's disease, ALS



7

A Resource for Life

While we can't suspend time itself, we can stop the clock on the aging of your newborn's stem cells.

Given all the information available today, it is believed that cord blood units in proper cryogenic storage should be able to be preserved indefinitely, protecting them from aging and environmental factors.⁶

And while it's sunny outside, it's an ultra chilly -196°C inside the tanks!

8

Newborn Stem Cells + Delayed Cord Clamping = ♥

You don't have to choose between delayed cord clamping and storing your baby's newborn stem cells. It's possible to do both!



Delayed cord clamping

&



Storing newborn stem cells

After a baby is born, the umbilical cord is clamped and cut. Some parents leave the umbilical cord attached for a certain amount of time prior to clamping, allowing more time for the umbilical cord blood to flow to their baby.

While opinions on optimal timing vary, it's always recommended to consult with your healthcare provider about your family's specific situation.

Families can also preserve cord tissue — which is unaffected by delayed clamping.

[WATCH ONE OB/GYN'S PERSPECTIVE »](#)



It's Easy

This once-in-a-lifetime opportunity is noninvasive and takes just 3 steps to complete.
It's generally recommended to get your kit by Week 32 of pregnancy.



Step 1

Join CBR online or call
1.888.932.6568 and we'll
send you a collection kit.



Step 2

Take kit to hospital so your
doctor or midwife can perform
the collection.



Step 3

Call our medical courier
24/7 using the number
on the back of the kit.



CBR Makes It Affordable

We've designed payment plans for almost every family's budget.
The best part? No payment is due until after birth! Annual storage is \$180/year per sample.*

CORD BLOOD & CORD TISSUE	Best Value	or	Most Popular	or	Lowest Payment
	One-Time Payment		12-Month Payment Plan		36-Month Payment Plan
	\$2,830		\$251/mo		\$97/mo
CORD BLOOD ONLY	Best Value	or	Most Popular	or	Lowest Payment
	One-Time Payment		12-Month Payment Plan		48-Month Payment Plan
	\$1,680		\$155/mo		\$49/mo

[SEE ALL PLAN OPTIONS »](#)

Contact CBR, we're here to help.

By Phone

1.888.932.6568

1.888.587.1456 (Mandarin)

1.888.932.6568 (Español, presione 1)

International callers: 650.635.1420

Monday to Friday (6am - 8pm PST)

Saturday & Sunday (6am - 4pm PST)

24 hour emergency hotline available to clients.

Get Started on the Website

www.cordblood.com/enroll

Laboratory & Storage Facility

Cord Blood Registry

6550 S Bay Colony Dr, Ste 100

Tucson, AZ 85756



Cbr BY GENERATE
LIFE SCIENCES®

*Annual storage rates subject to change over time.

1. Meier C, Middlelantis J, Wasielewski B, et al. Spastic paresis after perinatal brain damage in rats is reduced by human cord blood mononuclear cells. *Pediatr Res.* 2006;59:224-249.
2. Munoz J, Shah N, Rezvani K, et al. Concise review: Umbilical Cord blood transplantation: past, present, and future. *Stem Cells Transl Med.* 2014;3:14351443
3. Saleh R, Reza HM. Short review on human umbilical cord lining epithelial cells and their potential clinical applications. *Stem Cell Res Ther.* 2017;8(1):222. Published 2017 Oct 10. doi:10.1186/s13287-017-0679-y
4. Verter, F., Couto, P. S., & Bersenev, A. (2018). A dozen years of clinical trials performing advanced cell therapy with perinatal cells. *Future Science OA*, 4(10). doi: 10.4155/fsoa-2018-0085.
5. www.clinicaltrials.gov
6. Broxmeyer HE, Lee MR, Hangoc G, et al. Hematopoietic stem/progenitor cells, generation of induced pluripotent stem cells, and isolation of endothelial progenitors from 21- to 23.5-year cryopreserved cord blood. *Blood.* 2011;117(18):4773-7.

The use of cord blood is determined by the treating physician and is influenced by many factors, including the patient's medical condition, the characteristics of the sample, and whether the cord blood should come from the patient or an appropriately matched donor. Cord blood has established uses in transplant medicine; however, its use in regenerative medicine is still being researched. There is no guarantee that potential medical applications being studied in the laboratory or clinical trials will become available.

Cord tissue use is still in early research stages, and there is no guarantee that treatments using cord tissue will be available in the future. Cord tissue is stored whole. Additional processing prior to use will be required to extract and prepare any of the multiple cell types from cryopreserved cord tissue. Cbr Systems, Inc.'s activities for New York State residents are limited to collection of umbilical cord tissue and long-term storage of umbilical cord-derived stem cells. Cbr Systems, Inc.'s possession of a New York State license for such collection and long-term storage does not indicate approval or endorsement of possible future uses or future suitability of these cells.