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1. www.autismaus.com.au 2. www.cerebralpalsy.org.au 3. Australian Institute of Health and Welfare 2011. Diabetes prevalence in Australia: detailed estimates for 2007-08. Diabetes series no. 17. Cat no. CVD 56. Canberra: AIHW 4. www.health.qld.gov.au 5. www.bia.net.au 6. Bioinformant 7. Nietfeld JJ, Pasquini MC, Logan BR, Verter F, Horowitz MM. Lifetime probabilities of hematopoietic stem cell transplantation in the US. Biol Blood Marrow transplant. Mar 2008; 14(3): 316-3



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IMPORTANT INFORMATION ABOUT STORING YOUR BABY'S STEM CELLS

Cell Care – Australia's largest and most experienced cord blood and tissue bank

FOR ADVICE AND MORE INFORMATION



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1800 071 075



Cell Care

Storing stem cells for the future





Your guide to STORING YOUR BABY'S STEM CELLS

Cord blood & Cord tissue are rich in **powerful stem cells** that can only be collected at birth for potential future use.

Stem cells can be used **now** for medical treatments, and there is an expanding range of new therapies being researched that will use cord blood and tissue **in the future**, eg. type 1 diabetes, cerebral palsy and autism.

Your baby's stem cells are a **perfect match** for your child and are likely to be a match for **siblings and family members**.

Store with Cell Care, Australia's largest and most experienced cord blood and tissue bank. Today, parents of more than 15,000 babies have stored with us.

LEARN
MORE AT

 cellcare.com.au

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more information

CORD BLOOD & CORD TISSUE ARE RICH IN STEM CELLS

Your baby's stem cells are powerful, unique cells that are the building blocks of the body. They can only be collected at birth.

Cord blood is the blood in a baby's umbilical cord and placenta.

Cord tissue is the tissue of the umbilical cord.

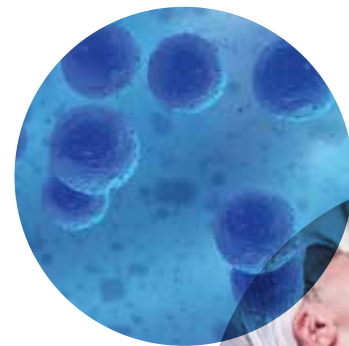
Your baby's cord blood and tissue contain a diverse mixture of cells including stem cells.

- Stem cells are powerful, unique cells that are the building blocks of our body. They have the ability to create our organs, blood, tissue and the immune system.
- **Stem cells** from umbilical cord blood and tissue are among the most **flexible and potent** in the body.
- **The only opportunity** to collect cord blood and tissue is at birth. Collection is a short, simple and painless process performed by your obstetrician, midwife or trained Cell Care collector.



Diagnosed with mild cerebral palsy and epilepsy, Zac took part in a US clinical trial looking at the effect of cord blood reinfusion on children with cerebral palsy. Since having his cord blood reinfused, his movement is improving and the number of seizures has reduced. "I am seeing little improvements – and they are little ones – but they are good ones."

**Gabrielle & Stephen
Parents, QLD**



STEM CELL TREATMENTS

Now & in the future

Your baby's stem cells can be used now and may be used in the future as research evolves and exciting new therapies emerge.

WORLD FIRST

Australian Clinical Trial

Researchers at The Children's Hospital at Westmead, together with Cell Care, are investigating the potential of using cord blood to prevent or delay the onset of type 1 diabetes in high-risk children. For more information contact Cell Care on 1800 071 075.

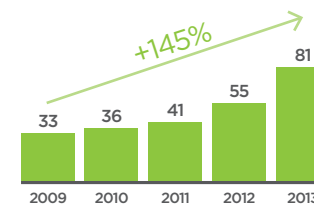
Cord blood stem cell transfusions are now used as an alternative to bone marrow for life threatening conditions such as blood, immune system and metabolic disorders. Worldwide, cord blood has been used in 30,000+ transplants.

Scientific research is evaluating how cord blood cells may provide new therapies for a broad number of diseases for which there is no effective treatment today. **Clinical trials** are underway for conditions including:

Condition	Occurance
Autism	1 in 160 children ¹
Cerebral palsy	1 in 500 children ²
Type 1 diabetes	1 in 250 children ³
Paediatric stroke	1 in 1000 children ⁴ (HIE)
Traumatic brain injury	1 in 1077 children (ages 0-14) ⁵

Emerging technologies may also enable the number of cells available from cord blood collections to be expanded.

Increasing number of treatable conditions with cord blood stem cell transplant



The important benefits would be:

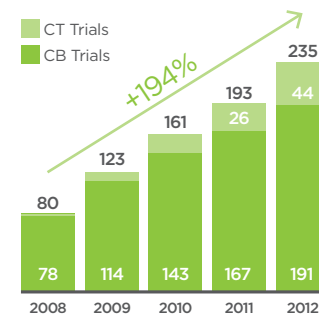
- extending the timeframe over which cord blood stem cells may be used – treatments for adults require more stem cells than for a child.
- increasing the potential number of therapies from one collection.
- providing a store of stem cells for cancer treatments throughout a child's life.

Cord tissue has different types of cells to cord blood. Cord tissue cells can regenerate tendon, cartilage and bone. More than 40 trials⁶ around the world are researching the potential of cord tissue cells in areas such as spinal cord injury and stroke.

Today, the chance of a child requiring stem cell therapy is 1 in 3,000⁷. Based on stem cell science today, by the time an adult reaches middle-age this probability drops to 1 in 200⁷.

While regenerative medicine has exciting potential, its prospects remain dependent on the success of ongoing research around the world.

Cumulative number of cord blood and tissue clinical trials



Source: Bioinformant

YOUR BABY'S STEM CELLS ARE A PERFECT MATCH

Your baby's cord blood stem cells are a perfect match for your child. In addition, family banking with Cell Care means cord blood can be used by siblings and other compatible family members.

In the event a transplant is required, problems of rejection will be eliminated by using a child's own cells. Cord blood stored also has greater potential to be a match for siblings or compatible family members, reducing possible complications that may be associated with a third party donor.

Importantly, a number of the new cord blood cell therapies being researched and trialled anticipate requiring cells directly from the patient being treated (i.e. autologous therapies).

Over 60% of Australian parents electing to store cord blood and tissue are doing so with private cord blood banks where stem cells are stored for the exclusive use of their child or compatible family members.

Speak to us about family banking at Cell Care

Research

Cell Care is the only Australian cord blood and tissue bank participating in clinical trials such as the type 1 diabetes trial being undertaken with the Children's Hospital Westmead. Cell Care supports infant brain damage research at the Ritchie Centre of Monash University.

Education

Cell Care has the largest field team educating health care professionals and hospitals all around Australia. We provide education on evolving research in cellular therapies. Every year Cell Care presents to thousands of expectant parents in antenatal classes across all states.

Customer Service

Cell Care's highly experienced customer service team guides parents through every stage of the storage process. We provide in-depth cord blood and tissue storage information, guarantee expert collection processes, and ensure ongoing updates of how stem cell medicine is evolving.

Innovation

Cell Care is at the forefront of cord blood cell therapy development. We were the first to offer Australian families the option of storing cord tissue which will potentially expand future therapy options.

Experience

Cell Care collects from nearly all maternity hospitals around Australia. We process the greatest number of cord blood and tissue samples each year, and have the largest private storage facility in Australia.

STORE WITH CELL CARE

Cell Care is Australia's largest and most experienced cord blood and tissue bank and is the leader in research and education, customer service and innovation.



FOR ADVICE AND MORE INFORMATION

 cellcare.com.au

 1800 071 075

CARING FOR YOUR CELLS EVERY STEP OF THE WAY

The collection and storage process



Friday 4pm.

Townsville, QLD
Expectant Mum goes into labour. Expectant partner calls Cell Care. Cell Care provides monitoring support.

9.15pm.

Cell Care collector arrives at the hospital and maternal blood samples are collected.

11pm.

Collection is performed and the courier called to transport to Cell Care's owned and operated laboratory and storage facility.

Saturday 7am.

Cell Care's specialist courier collects the cord blood and tissue and stores them in a temperature controlled unit en route to Townsville airport.

10am.

During transit from Townsville to Melbourne, Cell Care's validated temperature controlled shipper ensures every sample is monitored 24/7.

12.30pm.

Baby's cord blood and tissue arrives at laboratory for processing and storage. Cell Care scientists receive and process cord blood and tissue every day of the year.

2pm.

Cord blood and tissue is processed and the baby's stem cells are safely and securely stored for the future. Confirmation text sent to Mum.

3 days later...

Communication with Mum to arrange delivery of personalised certificate.

Michael & Lindy Klim

"Obviously, no-one ever wants to think about the possibility of their child getting sick, but it makes us feel safe to know that it's there if we do ever need it.

Also, in the future if one of our other children needed stem cell therapy and Frankie's blood was a match, it could potentially be used to treat them. By banking Frankie's blood Michael and I feel we are doing our bit to potentially protect all our children's health."

Professor Alan Trounson

President of the California Institute for Regenerative Medicine in San Francisco, California

"Cord blood is rich in important and unique immune cells, as well as stem cells, and the science of cord blood and stem cells is evolving rapidly."

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