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## **1. PROMISING MEDICAL EFFECTS BROUGHT BY UMBILICAL CORD BLOOD STEM CELLS**

*February 27, 2015*

Yuecheng jiang, a three year old boy with Cerebral Palsy, has received two courses of Autologous umbilical cord blood stem cells therapy last October and this April.

The little boy was born healthy, however his mobility skills developed very slowly by the time he was roughly three months old. He exhibited respiratory problems and moreover, when he was nine months old, after a spate of convulsions, his heartbeat suddenly stopped temporarily and he lost consciousness.

According to his mother, improvement emerged shortly after stem cell transplantation. “The next day, I could feel his physical progress. He was able to walk when I held his hand, which had never happened before. We were all very happy for his improvements. Though the language development was still limited, “he understood more and smiled more. I can feel that he is making progress every day.”

**References:** <http://www.chinabiotherapy.com/hornetcornnews/2015/339.html>

## **2. ONE-MONTH-OLD GIRL COMES TO BROTHER’S AID**

*By caiwenjun | november 26, 2014, Wednesday*

Three-year-old boy with a life-threatening condition received a stem cell transplant from his baby sister’s umbilical cord blood at the shanghai children’s medical center. In helping her brother, the one-month-old girl — known as Tongtong — became the youngest donor of umbilical cord blood in the city.

The little boy, An’an, suffers from Aplastic Anemia, which means that his bone marrow does not make enough new blood cells. An’an faced a setback 10 days ago when a matched volunteer from the Chinese marrow donor program backed out.

The family is hopeful that their daughter’s gift will bring better times. “Today’s transplant went smoothly. It will take three to four weeks to see whether it is a success.”

**Resource:** <http://www.shanghaidaily.com/metro/health-and-science/onemonthold-girl-comes-to-brothers-aid/shdaily.shtml>

## **3. A GIFT OF LOVE, THE GIFT OF LIFE: AN ENDURING SIBLING CONNECTION**

*October 31, 2014*

Traci and Kevin’s son, Nicholas, only 2 ½ years old, was diagnosed with Leukemia. But when nick's oncologist learned that Traci was expecting while nick was still receiving chemotherapy, the oncologist urged her to bank the baby's cord blood as a possible source of stem cells for nick should he ever need a transplant.

When Brayden was born in august 2006, she and Kevin store umbilical cord blood. Unfortunately, nick's leukemia returned when he was just 5 years old. While Traci and Kevin waited to learn if Brayden's cord blood would be a suitable, nick's health deteriorated quickly.

Days later, Traci and Kevin were bracing for more bad news when nick's oncologist walked into the ICU. Then they realized he was smiling as he shared unbelievable news: Brayden's cord blood was a perfect match! Now it has been nearly a year since nick received a cord blood stem cell transplant with cord blood donated from his brother Brayden.

Today, nick is almost 7 years old and has just started first grade. It's too early to say whether nick will stay in remission from leukemia, but the outlook is promising for a full recovery.

**Reference:** <http://www.perkinelmer.com/corporate/stories/gift-of-love.html>

#### **4. BOY'S LIFE SET TO BE SAVED BY STEM CELL DONOR SISTER**

*24 September 2014*

Five-year-old Haseeb Ahmed, from Herringthorpe in Rotherham, was born with Beta Thalassaemia Major.

After falling pregnant with Hannah two years ago and hearing about cord blood transplants on a television programme, Haseeb's mum Fozia, 31, spoke to Haseeb's consultant and was referred to professor Ajay Vora, consultant pediatric hematologist at Sheffield children's hospital.

"shortly after she was born we found out that Hannah was a match." the family continued their trips until Hannah was two years old when she underwent the operation that could change her brother's life.

The transplant took place in June. "Hannah's stem cells from her cord blood and bone marrow have the potential to change Haseeb's life and should mean that he no longer has to have blood transfusions every four weeks."

**Resource:** <http://www.sheffieldchildrens.nhs.uk/news/boys-life-set-to-be-saved-by-stem-cell-donor-sister.htm>

#### **5. AFTER FDA APPROVAL, DUCHENNE'S MUSCULAR DYSTROPHY PATIENT RECEIVES FIRST UMBILICAL CORD STEM CELL TREATMENT IN THE UNITED STATES**

*September 10, 2014 by jlenner*

Ryan Benton, a 28 year-old Duchenne's Muscular Dystrophy (DMD) patient from Wichita, Kansas, received his first umbilical cord tissue-derived Mesenchymal stem cell treatment at asthma and allergy specialists of Wichita, KS following us FDA approval of his doctor's application for a single patient, investigational new drug (IND) for compassionate use.

Ryan received his first intramuscular stem cell injections from allergy and immunology specialist, Van Strickland, M.D at asthma and allergy specialists in Wichita, Kansas. Dr. Strickland will administer similar courses to Ryan every 6 months for a total of 3 years.

This is not the first time Ryan has undergone umbilical cord Mesenchymal stem cell therapy. Since 2009, Ryan has been traveling to the stem cell institute in panama for similar treatments. Encouraging results from these treatments prompted Dr. Strickland to seek out a way to treat Ryan in the United States.

**Reference:** <https://www.cellmedicine.com/after-fda-approval-duchennes-muscular-dystrophy-patient-receives-first-umbilical-cord-stem-cell-treatment-in-the-united-states/>

**6. BOY, 2, IS THE FIRST TO HAVE CEREBRAL PALSY 'SUCCESSFULLY TREATED' USING STEM CELLS, TAKING HIM FROM A VEGETATIVE STATE TO WALKING AND TALKING**

*Published: 25 may 2013*

Doctors have successfully treated pediatric Cerebral Palsy with Umbilical cord blood for the first time, on a patient known only L.B.

After going into cardiac arrest in November 2008, L.B. was left paralysed with severe brain damage and in a vegetative state. On 27 January 2009, the doctors administered the prepared blood intravenously. In just two months after treatment with the cord blood containing stem cells, his symptoms improved significantly.

**Resource:** <http://www.dailymail.co.uk/health/article-2330338/boy-cerebral-palsy-successfully-treated-using-stem-cells-taking-vegetative-state-walking-talking.html>

**7. CORD BLOOD STEM CELLS RESTORE TODDLER'S HEARING**

*July 11, 2012*

A virus infection Stephanie Connor acquired during pregnancy put her daughter at significant risk for brain damage and lifelong hearing loss at age 1.

In January 2012, Madeleine, 2, became the first child to undergo an experimental hearing loss treatment through an FDA-approved trial at Memorial Hermann-Texas medical center that infused stem cells from her own banked cord blood into her damaged inner ear.

Within the last six months, Connor says she's seen a dramatic improvement in Madeleine's ability to hear.

Madeleine was also able to speak for the first time, Connor said.

**Reference:** <http://abcnews.go.com/health/wellness/cord-blood-stem-cells-restore-hearing-toddler/story?id=16750718>

**8. BLOOD TAKEN FROM UMBILICAL CORD SAVES A BOY'S LIFE**

*By diana guevara on jun 27, 2012*

At only 10 years old, Ricky Martinez for more than a year he has been battling an extremely rare disease known as Aplastic Anemia. His only hope has been to get a bone marrow transplant. His family has been searching for a donor since.

But in an unexpected find, they were able to locate blood from his own umbilical cord through a national database in Washington D.C. Ricky's mother had donated the umbilical cord to science after he was born. "we couldn't afford to bank it ourselves [so] I figured let me help somebody else," said Martinez. But in an ironic twist of fate, "it came back," she added.

It is an experimental potentially lifesaving blood transfusion that is already showing signs of promise.

**Reference:** <http://www.nbcsandiego.com/news/local/blood-taken-from-umbilical-cord-saves-a-boys-life-160623165.html>

## **9. A LIFE RENEWED: THE MODERN MIRACLES OF REGENERATIVE MEDICINE**

*10 may 2012*

Rydr was born unable to breathe, swallow or suck, and he had no brain stem function. Struggling for life, Rydr was rushed to the neonatal intensive care unit, where he spent six weeks and one day, after coming into the world.

As the weeks went by, Elisa noticed that Rydr was struggling to hit milestones. By the time he was 11 months old, Rydr was hospitalized for a third time- it was during this trip that a doctor suggested Rydr might have Cerebral Palsy.

Elisa learned about Duke University's study on regenerative medicine: infusions of their own cord blood for children with cp.

Luckily, midway through Elisa's pregnancy, a friend suggested that Elisa and her husband Ric bank their newborn's cord blood. Elisa and Ric decided that banking their baby's cord blood would be "insurance we hoped we never needed."

After his very first treatment immediate improvement was obvious in Rydr. He began crawling, then standing a mere three months later. "His gross motor skills just took off!" says Elisa. They returned to duke two more times, each trip easier as Rydr's health dramatically improved.

**Reference:** <http://www.godandelion.com/articles/news/special-needs-in-theneeds/142-a-life-renewed>

## **10. CORD BLOOD CURES GIRL'S BRAIN INJURY**

*Published March 16, 2012- foxnews.com*

When Sparrow Morris, from Pineville, MO., fell into the family's swimming pool, she was left unconscious and without oxygen for 45 minutes, causing severe brain damage. She was left in a vegetative state and couldn't sit or speak.

The Morris, who have 8 children, decided to bank their fifth child's cord blood – Sparrow – but didn't think they'd ever need to use it.

Fifteen months after Sparrow's injury, doctors reinfused the cord blood into sparrow as part of a trial at Duke University. Morris said she noticed a difference in her daughter the next day.

“She was excited, walking better . . .she spontaneously started talking to me,” Morris told fox2now. “We didn’t think we’d ever have to use (the cord blood). We just saw the value in it and decided it was money well-spent.”

**Resource:** [http://www.stemcellresearchnews.net/news\\_frame.asp?article=62a9005c-1781-4ab0-a499-fb41e5a5b44d&title=cord%20blood%20stem%20cell%20transfusion%20cures%20girl%e2%80%99s%20brain%20injury](http://www.stemcellresearchnews.net/news_frame.asp?article=62a9005c-1781-4ab0-a499-fb41e5a5b44d&title=cord%20blood%20stem%20cell%20transfusion%20cures%20girl%e2%80%99s%20brain%20injury)

### **11. BAY AREA GIRL IS A SICKLE CELL SUCCESS STORY**

*Updated on Tuesday, Feb 14, 2012*

Just days after lucky Mulumba gave birth to her first child Carol, she learned her baby had Sickle Cell Anemia. Two years later she learned she was pregnant with her second child mark. Her doctor suggested she bank his umbilical cord blood in the event one day it might be used to help carol.

She stored mark’s cord blood. Meanwhile carol, now ten years old, struggled through daily pain as her condition worsened. Carol underwent a stem cell transplant using cells from her brother mark’s banked cord blood. The procedure worked.

Carol was cured of sickle cell anemia and has been disease free for three years.

**References:** <http://www.nbcbayarea.com/news/health/bay-area-girl-is-a-sickle-cell-success-story-139297018.html>

### **12. SAVIOUR SIBLING CURES SICK OLDER BROTHER**

*07 may 2011*

At age 12, Charlie Whitaker was saved by stem cells transplanted from the umbilical cord of his brother Jamie, who was born by IVF specifically to provide a tissue match.

The Whitakers were devastated when Charlie was born with Diamond Blackfan Anaemia (DBA). He endured painful daily injections for eight hours needed blood transfusions every two weeks at a time.

His parents were told that the only cure was a stem cell transplant. But neither of them, nor their daughter Emily, now nine, was a match for Charlie.

When Jamie was born in 2003, he was clear of the disease, despite having had a one in 50 chance of suffering it himself, and doctors performed the transplant. Charlie has been monitored constantly since the transplant but a bone marrow biopsy has shown no traces of DBA.

**Resource:** <http://www.telegraph.co.uk/news/health/news/8499394/saviour-sibling-cures-sick-older-brother.html>

### **13. A MOTHER'S MIRACLE**

*Posted: Monday, May 2, 2011 8:38 am | updated: 10:44 am, Wed Dec 10, 2014.*

In July 2007, Quentin was diagnosed with Leukemia, requiring the youngster to go through the distress of chemotherapy and radiation treatment.

Webb was four months pregnant at the time of the diagnosis and learned within those months that the arrival of a new baby would be a bigger blessing than they could envision.

That same year, while Quentin was going through radiation treatment, the family was approached by children's hospital in New Orleans to be part of a study where stem cells are harvested from a human placenta to treat diseases like Quentin's, which require a stem cell transplant.

In December 2007 the couple's baby girl, Jory, was born. In spring of 2008, Webb said she received a call that the stem cells collected at Jory's birth was indeed a perfect match to her brother. Quentin received the stem cell transplant in March 2008 and has since been in remission.

**Reference:** <http://www.iberianet.com/people/article-5e83795e-74c2-11e0-8577-001cc4c002e0.html>

### **14. AMAZING RECOVERY ATTRIBUTED TO CORD BLOOD- TODDLER DIAGNOSED WITH CEREBRAL PALSY SHOWS REMARKABLE IMPROVEMENT**

*11 mar 2008*

When 2-year-old son 'Dallas' of the Sacramento, Calif., couple was diagnosed with Cerebral palsy, the Hextells travelled to duke university, where doctors were using cord blood as part of a clinical trial to treat a small number of children who had Cerebral Palsy or brain damage.

So the Hextells agreed to infuse Dallas' own stem cells back into his bloodstream last July, a procedure that took less than an hour. Within five days, a different child emerged — laughing, clapping, waving and reacting and this was possible by the preservation of his own cord blood shortly before birth.

**Resource:** <http://www.today.com/id/23572206# vso2adyudtc>

### **15. HOW A BABY HELPED SAVE HIS BIG BROTHER'S LIFE**

By the Vancouver Sun May 9, 2007

When Coquitlam toddler Joseph was born about 18 months ago, doctors at B.C. children's hospital took the extremely rare step of retrieving the stem cells in his umbilical cord blood and infusing them into his then-five-year-old brother, who was suffering from severe Aplastic anemia.

"I made a note that his mother was pregnant, but I didn't count on an umbilical cord blood transplant at that point because there is only a 25-per-cent chance of a match. Then we started a search for a bone marrow transplant donor, but we couldn't find any matches," Dr. Dix said.

When Joseph was born, Daniel's family and medical team were thrilled to learn that he was a 100-per-cent match.

"We hadn't done a cord blood transplant for this [condition] at the hospital before this but we knew of a case elsewhere so we made a decision to go ahead since it was too risky for Daniel to wait any longer. He responded incredibly well." said Dr. Dix.

**Resource:** [http://www.canada.com/story\\_print.html?id=08ad2a98-0568-4b6c-b0f6-d5c388da04e1&sponsor=](http://www.canada.com/story_print.html?id=08ad2a98-0568-4b6c-b0f6-d5c388da04e1&sponsor=)

## **16. GIVING LIFE, RECEIVING LIFE**

Patrizia Durante learned she was suffering from Acute Myeloid Leukemia when she was two-thirds of the way through her first pregnancy. On September 2, 2001, Victoria was born.

By march, however, Mrs. Durante was so ill that doctors at royal Victoria hospital in British Columbia could wait no longer for a suitable donor for a bone-marrow transplant. At that point doctors took a calculated risk. They infused Mrs. Durante with Victoria's umbilical cord blood, which had been frozen.

As the post described it, "the stem cells also flooded Mrs. Durante's bloodstream and stuck to her bone marrow -- the part of the body that manufactures the blood -- and began rebuilding her blood system." the stem cells also destroyed residual cancer cells, and seven months after the infusion Mrs. Durante is in complete remission.

In Mrs. Durante's words, "i gave my daughter life, and then she gave mine back."

**Resource:** <http://www.nrlc.org/archive/news/2002/nrl11/life.html>