

# More

from LifebankUSA™



Fall Newsletter 2008

## *The First Successful US Transplant of Both Placenta-Derived and Cord Blood Stem Cells Leads to Groundbreaking Treatment*

A successful transplant of both placenta-derived stem cells and cord blood stem cells was completed in a young boy with acute lymphoblastic leukemia (ALL), a life-threatening type of cancer. Thanks to LifebankUSA and its unique Placenta-Cord banking service, this patient was transplanted with more than double the number of CD34+ stem cells he would have received if only cord blood had been available. Transplanting more CD34+ stem cells has been shown to improve transplant success and survival.<sup>1-5</sup>

***“The patient is doing extremely well and was discharged from the hospital 1 to 2 weeks earlier compared to traditional cord blood transplants.”***

**—Lolie C. Yu, MD—Transplanting Physician**

Professor of Pediatrics; Division Chief, Pediatric Heme-Onc Program; and Director, BMT Program, Children’s Hospital, New Orleans

The placenta is especially rich in CD34+ cells, the stem cells that matter most for transplant success. CD34+ stem cells are blood-forming cells, which are found in the cord blood and the placenta. They can transform into other cell types, including: red blood cells (which carry oxygen), white blood cells (immune cells that fight infections), and platelets (which clot blood and prevent hemorrhaging). LifebankUSA is the only cord blood bank that enables parents to collect stem cells from both the placenta and the cord blood.

**WATCH FOR MORE  
INFORMATION  
ON THIS EXCITING DEVELOPMENT  
IN OUR NEXT NEWSLETTER**



Transplant outcome is based on many factors and individual results may vary. While there is no guarantee of similar transplant success, a larger CD34+ cell dose has been shown to improve transplant outcome.

LifebankUSA is the world’s first bank to enable families to collect and preserve stem cells derived from the placenta as well as the umbilical cord (Placenta-Cord banking), which when transplanted can rebuild blood and the immune system, including red blood cells, white blood cells, and platelets. Additionally, the chance that a child will use his/her own stored stem cells during his/her lifetime is estimated at 1 in 400 (J.J. Nietfeld and F. Verter). These odds may increase if there is a family history of certain blood disorders or cancers. The potential risks and benefits of stem cell transplantation vary and depend on many factors, such as the amount and quality of the stem cells collected, the HLA compatibility between recipient and donor, and the client’s overall health. Talk with your health care provider. For more information, call us at 1-877-LIFEBANKUSA (1-877-543-3226) or visit [www.lifebankusa.com](http://www.lifebankusa.com).



# Corner

Client

## OB-GYN recommends Placenta-Cord Banking Service

*"I am a LifebankUSA™ client. I recommend LifebankUSA to my patients because their kit is so easy to use. Only Placenta-Cord banking enables parents to bank stem cells from the placenta and cord blood for the most cells possible. As an OB/GYN, I understand the importance of banking the most cells possible for future use."*

—David Stoneking, MD, Florida



# in the news

## Cord blood transplants show promise in treatment of cerebral palsy

You've probably heard numerous stories about the success of treating certain childhood cancers with cord blood stem cells. But you may not know that these valuable stem cells have also demonstrated exciting potential in the treatment of non-malignant conditions, such as cerebral palsy (CP). CP affects muscle control and coordination, often causing severe developmental delays in movement and speech. The condition results from damage to certain parts of the brain during the prenatal period, the birth process, or infancy—although the cause of this injury is usually unknown.<sup>6</sup>

The rationale for treating CP with cord blood stem cells is that these cells have the potential to repair the injured parts of the brain by replacing damaged cells.<sup>7</sup> Encouraging improvement was observed with 30 CP cases at Duke University Medical Center. Although this type of therapy is experimental, LifebankUSA has been requested to release cord blood stem cells for transplant in a child with CP.\*

\*This use is not consistent with the current labeling.

## WANT TO SHARE YOUR STORY?

It may appear in the next issue.

If you'd like to share a story about your experience with LifebankUSA, please submit your information to:

[info@lifebankusa.com](mailto:info@lifebankusa.com).

Pictures are also welcome!



**References:** 1. Gluckman E, Rocha V, Arcese W, et al. Factors associated with outcomes of unrelated cord blood transplant: guidelines for donor choice. *Exp Hematol*. 2004;32(4):397-407. 2. Wagner JE, Barker JN, DeFor TE, et al. Transplantation of unrelated donor umbilical cord blood in 102 patients with malignant and nonmalignant diseases: influence of CD34 cell dose and HLA disparity on treatment-related mortality and survival. *Blood*. 2002;100(5):1611-1618. 3. Styczynski J, Cheung Y-K, Garvin J, et al. Outcomes of unrelated cord blood transplantation in pediatric recipients. *Bone Marrow Transplant*. 2004;34(2):129-136. 4. Kamani N, Spellman S, Hurley CK, et al. State of the art review: HLA matching and outcome of unrelated donor umbilical cord blood transplants. *Biol Blood Marrow Transplant*. 2008;14(1):1-6. 5. Cairo MS, Wagner EL, Fraser J, Cohen G, et al. Characterization of banked umbilical cord blood hematopoietic progenitor cells and lymphocyte subsets and correlation with ethnicity, birth weight, sex, and type of delivery: a Cord Blood Transplantation (COBLT) Study report. *Transfusion*. 2005;45(6):856-866. 6. United Cerebral Palsy Fact Sheet. [http://www.ucp.org/ucp\\_generaldoc.cfm/1/9/37/37-37/44](http://www.ucp.org/ucp_generaldoc.cfm/1/9/37/37-37/44). Accessed August 21, 2008. 7. Steenblock Research Institute. Stem Cell Therapies: The future is now. Cerebral palsy and cord stem cells. <http://www.stemcelltherapies.org/umresearch/cerebral-palsy.html>. Accessed August 21, 2008.



## Because you have a lot to protect... get peace of mind with LifebankUSA

Congratulations! You're having a baby. As you invest the time to prepare yourself and secure your home for your new baby, think about cord blood banking—a smart decision that could impact the future of your baby and your entire family. Hundreds of thousands of families have banked their baby's cord blood stem cells because, like you, they want potential future treatment options for their families. They know that cord blood transplants have already saved thousands of lives—and offer the possibilities of saving far more. And with LifebankUSA, you get the only cord blood bank that enables you to collect stem cells from both the placenta and the cord blood. Banking stem cells from both of these sources allows you to store more lifesaving cells...and that offers you greater peace of mind.

### *Here's how LifebankUSA can offer you greater peace of mind*

- LifebankUSA is the only cord blood bank that offers Placenta-Cord banking, which enables soon-to-be parents to collect their baby's lifesaving stem cells from both the placenta and the cord blood—potentially leading to more lifesaving stem cells banked
- Transplants using more stem cells can lead to greater treatment success and patient survival
- When it comes to cord blood banking, LifebankUSA units are, on average, 99% pure (non-red blood cells). The reported purity levels of other leading cord blood banks are much lower. This means that their units contain more red blood cells that may cause complications if the cord blood units are used for potentially lifesaving treatment

### *Here's how LifebankUSA can offer you help in getting started*

- Enroll by **January 31, 2009**, and you'll receive both a **\$250 prepaid Visa® gift card**<sup>†</sup> and the best-selling pregnancy book *Your Pregnancy™ Week by Week*<sup>‡</sup>
- Payment plans as low as **\$44 per month**: Low monthly payment plans are available, so there is no need to apply for financing or credit through third-party companies
- **LifebankUSA Gift Registry**: Register with LifebankUSA to receive gift contributions from your friends and family toward your cord blood banking purchase. It's a great way to make an extra measure of protection even more affordable

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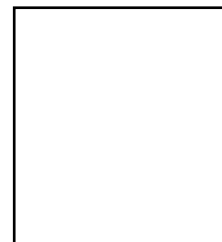
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<sup>†</sup>Visa card will be sent after collection is processed and stored. Discount may not be combined with any other offer. Offer valid for a limited time.  
<sup>‡</sup>Curtis GB, Schuler J. *Your Pregnancy™ Week by Week*, 6th ed. Cambridge, MA: Da Capo Press; 2008.

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