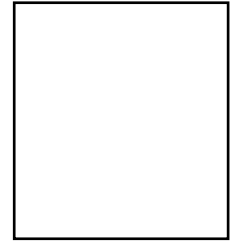



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Inside: Cord Blood Stem Cell Study in
Children With Type 1 Diabetes

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Spring Newsletter 2009

Cord Blood Stem Cells Investigated as Treatment Option for Children With Type 1 Diabetes

At LifebankUSA, we follow current research on potential uses of placental and cord blood stem cells. Additionally, Celgene, our parent company, supports research activities and conducts its own research on stem cells and stem cell-derived products.[†]

By reading our literature or other news sources, you may be aware of an ongoing investigational study of cord blood stem cell treatment in children with type 1 diabetes. These patients have been receiving infusions of their own cord blood stem cells. The study, which began in late 2005, is being conducted by a medical team of researchers from the Pediatrics and Pathology departments of the University of Florida, led by Michael Haller, MD, under an investigational new drug permit from the US Food and Drug Administration.^{1,2}

In the study, following preparation of the cord blood and pretreatment with diphenhydramine and acetaminophen, children were infused with their own umbilical cord blood stem cells for approximately 10 to 20 minutes through an intravenous (IV) line. The goal was to study 23 children with type 1 diabetes to look for effects on their immune system and to try to regenerate (regrow) insulin-producing cells and improve blood glucose control.^{1,2}

While the investigators reported some very early supportive data from 8 patients in June 2007, they plan to release stronger data and preliminary findings when they have followed at least 10 patients for 1 year after the infusion of cord blood. The researchers caution those who want to attempt this approach to type 1 diabetes that more study findings are needed before any conclusions can be drawn about the effectiveness of this treatment.¹

[†]All research is conducted using publicly donated placenta-derived stem cells and cord blood stem cells (not embryonic stem cells). The stem cells you privately bank with LifebankUSA are your own and will never be used for research purposes.

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The Impact of Type 1 Diabetes

Type 1 diabetes is a disorder of the body's immune system.³ This condition, also known as juvenile diabetes, occurs when the immune system harms certain cells in the pancreas.³ When those cells are destroyed, they can't produce the insulin the body needs to control glucose (sugar) levels in the blood.³ Some 15,000 young people in the United States are diagnosed with type 1 diabetes annually (based on 2002-2003 data).⁴ Each of these young people requires daily doses of insulin to survive.³





Client

Corner

"When my husband and I were considering cord blood banking for our family, my doctor told us about LifebankUSA® and its reputation as a leader in cord blood banking. Banking our daughter's stem cells gives us one less thing to worry about and allows us to feel more relaxed about our family's future well-being. Now that I've learned you can bank stem cells not only from the cord blood, but also from the placenta, I tell other women about this important service."

—Adrienne Palmieri-Johnston, New Jersey



Continued from page 1

Haller and his team have described the potential of cord blood in the future of type 1 diabetes interventional therapies as "immense," but they note that multiple therapies will probably need to be explored and combined to permanently reverse or even prevent type 1 diabetes.¹

Cord blood has already been used successfully in transplants to treat a number of diseases. Research continues to expand the list of potential uses for the valuable stem cells collected at birth.

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 story, name, address, and phone number to:

info@lifebankusa.com

We will contact you to help you complete a form needed to receive a free year of storage—WORTH UP TO \$225 PER YEAR—if we use your story in a future newsletter.

Photographs are also welcome!



Stem cells from the placenta and the cord blood are indicated to rebuild blood. Treatment outcome is based on many factors and results may vary. 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.

References: 1. Haller MJ, Viener H-L, Wasserfall C, Brusko T, Atkinson MA, Schatz DA. Autologous umbilical cord blood infusion for type 1 diabetes. *Exp Hematol.* 2008;36(6):710-715. 2. Clinical Trials.gov Web site. Umbilical cord blood infusion to treat type 1 diabetes. <http://clinicaltrials.gov/ct2/show/NCT00305344?term=type+1+diabetes+and+haller&rank=3>. Accessed April 16, 2009. 3. Juvenile Diabetes Research Foundation International Web site. What is diabetes? www.jdrf.org/index.cfm?page_id=101982. Accessed April 3, 2009. 4. Centers for Disease Control and Prevention Web site, National Center for Chronic Disease Prevention and Health Promotion. 2007 National diabetes fact sheet. <http://www.cdc.gov/diabetes/pubs/estimates07.htm>. Accessed April 16, 2009.



Make a Positive Impact on a Friend's Life... ...Recommend LifebankUSA®

Give Your Friends Greater Peace of Mind

When you spread the word about LifebankUSA to your friends and family, everyone benefits. They learn about the peace of mind that may come from banking even more of their baby's stem cells through Placenta-Cord banking with LifebankUSA. And you become eligible for one or more free years of storage (WORTH UP TO \$225 PER YEAR).

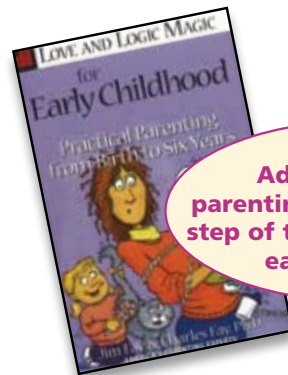
When you recommend LifebankUSA to a friend or family member and they enroll by June 30, 2009:

You'll receive:

- **1 free year of storage** (WORTH UP TO \$225 PER YEAR) for sharing the gift of cord blood banking. There's no limit to how many FREE years of storage you can receive through referrals†
- The book ***Love and Logic Magic for Early Childhood: Practical Parenting from Birth to Six Years***

They'll receive:‡

- **A \$250 prepaid Visa® gift card** and the popular book ***Your Baby's First Year Week by Week***



Advice from PhD parenting experts on every step of the journey through early childhood



Practical tips from the best-selling physician/author of *Your Pregnancy Week by Week*



Here's How LifebankUSA Can Help Your Family and Friends Get Started:

- Low monthly payment plans are available for as little as **\$44 per month**. There is no need to apply for financing or credit through third-party companies
- If they register with **LifebankUSA Gift Registry**, they can get help paying for enrollment (to learn more about the gift registry, they can call **1-877-543-3226** or visit **www.lifebankusa.com**)

Simply pass this newsletter on to a friend or family member, and tell them to call **1-877-LIFEBANKUSA (1-877-543-3226)** and mention your name. We'll take care of the rest. Need extra copies of this newsletter? Just call us!

†Free storage will be applied to your account after your referral's stem cell collection has been stored. If this happens to occur the same month as a storage payment becomes due, the credit will be applied to your account for the following year. Discount may not be combined with any other offer. Offer valid for a limited time and LifebankUSA reserves the right to cancel this program early.

‡Allow up to 6 weeks for delivery. Visa gift card is prepaid and can be used wherever Visa prepaid gift cards are accepted and in accordance with the Terms provided with the card. The Visa gift card is not exchangeable for cash and cannot be used after it expires on December 31, 2009. 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 and LifebankUSA reserves the right to cancel this program early.

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