

T H E F I R S T G I F T SM

Dedicated to all who participate in cord blood collection.



St. Louis Cord Blood Bank

SSM Cardinal Glennon Children's Medical Center
St. Louis University Department of Pediatrics

The First GiftSM

S U M M E R 2 0 1 1



Cord Blood Shows Promise in Treating Severe Aplastic Anemia

Acquired Severe Aplastic Anemia (SAA) is a rare disorder characterized by pancytopenia in the context of a hypocellular bone marrow in individuals lacking a constitutional marrow failure syndrome such as Fanconi's anemia. Untreated SAA has a poor prognosis due to a high risk of infection and bleeding and the need for chronic transfusion support. While many factors have been implicated as causing SAA, the vast majority of cases (especially in pediatric patients) have no discernible cause.

Several lines of evidence suggest that SAA in most cases represents an immune-mediated phenomenon rather than just an "empty marrow." Several large trials have shown that multi-agent immunosuppressive therapy (IST) can achieve transfusion independence in 60-80% of individuals, which is comparable to the success rate for matched sibling transplants and superior to most alternative donor transplants.

Matched sibling BMT remains the preferred treatment for SAA due to relatively rapid engraftment and the fact that even patients who respond well to IST remain at risk for late marrow complications (MDS, acute leukemia). However, many patients will eventually require alternative donor BMT due to either failure of, or relapse following, IST. While the relatively low incidence of graft-vs-host disease associated with umbilical cord blood (UCB) makes it a potentially attractive donor source for these patients, early experience with UCB in SAA was plagued by high graft failure rates (30 -45%) and poor survival (<50%) and so most clinicians have viewed UCB as a suboptimal donor source for this disease.

Several recent publications may be altering that view. Chan et al.¹ report on 12 children treated with UCB for recurrent/refractory SAA. While one-third of these children failed to engraft initially, a second UCB transplant was successful in 2 out of 3 and so the overall engraftment rate was >90% and overall survival 77%. Yamamoto et al.² reported on 12 adults recipients of UCB; again, 11/12 engrafted, and the overall survival was 83%. Finally, Jaing et al.³ reported on five children treated with UCB; 4/5 (80%) engrafted and one had autologous marrow recover, and all were alive at the time of the report.

Although many factors can influence the success of transplant, all of these series used primarily immunosuppressive regimens (typically including fludarabine) which may have contributed to their favorable success rate. Also of note was a report from China by Zhou et al.⁴ of 25 patients who received UCB combined with ATG, cyclophosphamide and cyclosporine; although none experienced prolonged engraftment, many exhibited relatively rapid return of hematopoiesis and the authors concluded that the transient support provided by UCB was of clinical benefit for many patients. Thus, these results suggest that it is time to reappraise the use of UCB in the treatment of SAA.

William Ferguson, MD
Cord Blood Bank Medical Director

¹ Chan DW, McDonald L, Lim D et al. *Bone Marrow Transplantation* 2008, 42:589-595.

² Yamamoto H, Kato D, Uchida N et al. *Blood* 2011, 117:3240-3242.

³ Jaing T-H, Huang I-A, Chen A-H et al. *Journal of Pediatric Hematology-Oncology* 2011, 33:18-21

⁴ Zhou F, Ge L, Yu Z, Fang Y, Kong F. *Journal of Hematology & Oncology* 2011, 4:27-28.

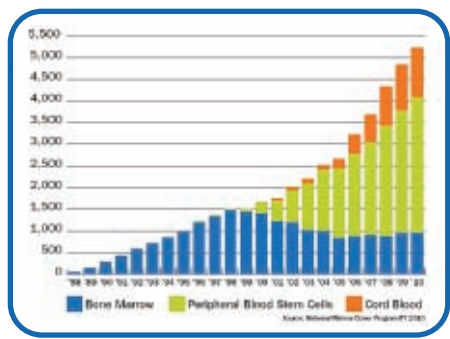
The Importance of Cord Blood Grows

The importance of cord blood stem cells has been growing rapidly over the last few years thanks to the contributions of our doctors, midwives, and nurses. According to the National Marrow Donor

Program (NMDP), about 22 percent of patients needing a stem cell transplant receive cord blood that was donated to a public cord blood bank.

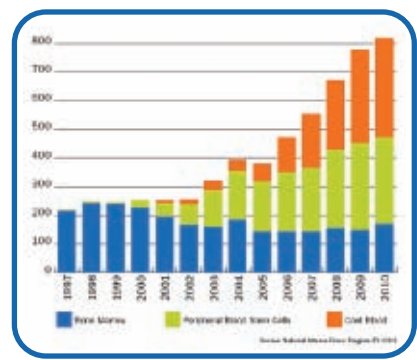
NMDP Transplants by Cell Source

With the help of the 23 public cord blood banks affiliated with them, the NMDP provides a single point of access to more than 185,000 cord blood units. The St. Louis Cord Blood Bank accounts for more than 24,000, or 13% of those units. This is the result of the high quality collections that you are making for us.



Transplants for Minority Patients by Cell Source

Minority patients have much more difficulty finding a suitable match for transplant. So, every collection you make from a minority mom is very important. Cord blood now accounts for about 42 percent of all minority transplants because a transplant using cord blood can succeed with a less-than-perfect match.



A Brief History of Cord Blood Transplantation

The use of cord blood to treat leukemia dates back to the 1960's, when two physicians, Milton and Norman Ende (*below*), brothers from Petersburg, VA, wondered why infants rarely got cancer, and hypothesized that something in their blood kept them healthy. Milton wondered if a transfusion of that blood would help his terminal cancer patients. Taking blood from babies was not an option, but taking blood from their umbilical cords would work.



In 1970, continuing his research, Milton Ende injected cord blood into a 16-year-old boy with acute leukemia. The patient also received chemotherapy and he lived for one year, which was far longer than anyone expected.

In the 1980s, Hal Broxmeyer, PhD (*right*), distinguished professor of medicine at Indiana University, began to evaluate hematopoietic stem and progenitor cells in umbilical cord blood as an alternative source to adult bone marrow for transplantation purposes.



Broxmeyer and colleagues compared the number of progenitor cells in cord blood collections with those in marrow collections that were associated with successful engraftment. This work suggested that cord blood could be a source of transplantable and engrafting cells. Animal experiments confirmed that this was true.

Broxmeyer and his group also determined that these cells could be frozen, stored in cryopreserved form in liquid nitrogen and recovered intact with full proliferative and differentiation capacity. In other words, the cells could be banked.

1988 The first cord blood transplant was performed by Dr. Eliane Gluckman (*below, left*), a colleague of Dr. Broxmeyer, at Hospital Saint-Louis, Paris, France. The patient was a 5 year-old boy with Fanconi anemia who was being treated by Dr. Joanne Kurtzberg (*left*) at Duke University. HLA-matched umbilical cord blood from the boy's baby sister was used. The patient is alive and well today.



1992 Dr. Pablo Rubinstein (*right*) established the first public cord blood bank at the New York Blood Center.



1995 Dr. Donna Wall (*left*) established the St. Louis Cord Blood Bank at SSM Cardinal Glennon Children's Medical Center.



2000-2001 A study performed by the Umbilical Cord Blood Transplantation Program at University of Minnesota, headed by Dr. John E. Wagner (*right*) determined that double cord blood transplantation is safe and may overcome the cell dose limitation for adults and adolescents.



2005 The Stem Cell Therapeutic and Research Act was signed into law. The Department of Health and Human Services began contracting with qualified cord blood banks to help create an inventory of 150,000 high quality cord blood units to be made available through the C. W. Bill Young Cell Transplantation Program. This established cord blood as an important source of stem cells.

Kansas City Cord Blood Program Reaches Two Milestones

Partnering with the St. Louis Cord Blood Bank in 2008, St. Luke's Cancer Institute began collecting cord blood from mothers delivering at St. Luke's Hospital, Kansas City. In February of this year, the Saint Luke's Cord Blood Donation Program collected its 2,000th cord blood unit. This is due to the enthusiastic acceptance and generosity of the Kansas City community. Since then, it has grown to four locations including Saint Luke's South, Saint Luke's Northland Hospital, and Saint Luke's East. This is the only public cord blood bank in the Kansas City region.

Donated cord blood units are taken to the stem cell processing laboratory at Saint Luke's Cancer Institute, where they are processed and placed in a liquid nitrogen freezer. Then they are shipped to the St. Louis Cord Blood Bank, where they are permanently stored and listed with the National Marrow Donor Program and the Caitlin Raymond International Registry.

The second milestone occurred a month after the first, when Saint Luke's was notified that a cord blood unit, donated by a Kansas City family, was a match for clinical transplant. This was the first unit from the program to be chosen for patient use.



"It's extremely gratifying to know that this simple, free service is providing hope for a patient facing a life-threatening illness," said Bill Ward, Director of Cellular Therapy Services at Saint Luke's (left). "Every donation helps boost the inventory and improve the odds of benefiting someone in real need."



Dr. William Ferguson Heads Landmark Children's Cancer Trial

Dr. Ferguson is the principal investigator for a first-of-its-kind clinical trial to develop a way to tailor cancer treatments on an individual basis. "With this study, we hope to develop a technique to use the tumor's unique genetic makeup to identify individualized treatment plans," he said. "We chose to focus on Neuroblastoma tumors because there are few conventional treatments for patients who relapse. But eventually, this technique could be extended more broadly for treating other forms of cancer."

Dr. Ferguson is director of pediatric Hematology and Oncology at Saint Louis University School of Medicine as well as our Cord Blood Bank Director.



Dr. William V. Miller Retires

Dr. Miller retired from the St. Louis Cord Blood Bank in May. He had been the bank's medical director for the last two years. Earlier this year, he received a Distinguished Service Award from his alma mater, the University of Missouri School of Medicine. Dr. Miller had been chief executive of blood centers in Wisconsin, Texas, and Missouri. He is looking forward to spending time with his family, sailing, and fishing.

Doll-Pollard, Essenpreis Meet with Legislators in Washington

Two women affiliated with St. Joseph's in Breese, Illinois — Anne Doll-Pollard, MD, with Southern Obstetric and Gynecologic Associates (SOGA), and Helen Essenpreis, RN, director of the hospital's Women and Infants Center — met July 13 with legislators in Washington, D.C., concerning the National Marrow Donor Program (NMDP).

Part of NMDP's focus is the National Cord Blood Inventory which provides funding for collecting and storing umbilical cord blood to treat patients needing a stem cell transplant. The trip was coordinated by NMDP through the St. Louis Cord Blood Bank (SLCBB), who recommended the women.



Left to right: Ann Doll-Pollard, MD; Rep. John Shimkus; Helen Essenpreis, RN.

"They definitely wanted people from Illinois because the two United States senators from our state — Richard Durbin and Mark Kirk — are on the appropriations committee and our Congressman, John Shimkus, is on the authorizing committee," Essenpreis said. She went on to say that Shimkus was very instrumental in getting the bone marrow and cord blood registry funded last year.

The two met directly with Rep. Shimkus and with aides of Sens. Durbin and Kirk. "It was nice to have an opportunity to thank Congressman Shimkus personally for his support of the National Marrow Donor Program," Dr. Doll-Pollard said, "He was obviously very busy with budget issues facing all the members of Capitol Hill, but he still sat down with us to hear about the importance of this program and how it has affected many of his constituents."

"Kathy Mueckl at the St. Louis Cord Blood Bank is aware of how we've embraced cord blood donation and asked if we were willing to go. Dr. Doll-Pollard and I were honored to represent our hospital and our area," Essenpreis said. Nearly 55 percent of families delivering at St. Joseph's in Breese donate cord blood to the St. Louis Cord Blood Bank. The hospital has participated in the program since 1996.

You Make a Difference with Every Stored Unit

Over 450 doctors and midwives currently collect cord blood for the St. Louis Cord Blood Bank. There are also about 1,750 labor and delivery nurses at our 29 hospitals who promote the program, collect blood samples, and record the delivery data for each collection.

Because of your generous efforts, the St. Louis Cord Blood Bank has a very authoritative presence in the United States and internationally. We greatly appreciate your efforts! Your stored units account for:

17% of stored cord blood units in the U.S.

11% of cord blood transplants in America in 2010

9% of all cord blood transplants globally since 1988

Capturing Valuable Minority Cord Units

Every cord unit you bank is priceless. Regardless of the donor's ethnic background, if it is a match for someone in need, it can be the gift of life.

Finding a match is a numbers game for patients needing a stem cell transplant. The more cord units that are available, the better chance that the patient will find a match. When a minority patient needs a stem cell transplant, they have fewer units to choose from. Their chances are greatly reduced.

Of particular concern are African-Americans. It is our goal to increase our inventory of minority units, and especially African-American units. Other cord blood banks across America are also implementing minority efforts. Together we are trying to increase the chances for more African-American patients to find a match. You can help.



There are barriers to African-American donation, and challenges to collecting a bankable cord blood unit that are unique to this minority. Fears, myths, and bad experiences associated with medical research has kept African-Americans from donating blood and organs. It is important that they receive clear information about donating cord blood. We have brochures and pamphlets for use in your office. It is especially reassuring to patients if you or your nurse are available to answer questions.

Compliance with prenatal care in the first trimester is lower for African-Americans. They have higher rates of pre-term labor and low birth weight delivery. Also, their cord blood units have a significantly lower nucleated cell count. As with all collections, it is particularly important to allow as much of the cord blood to drain into the collection bag as possible to ensure that the collection has sufficient stem cells to be a usable cord unit.

Nine Doctors Receive 2010 Leadership Awards

The leadership award is given to doctors and midwives who have made 100 or more cord blood collections in the previous calendar year.

Continuing Leadership



Douglas Gates MD
230 Units



Douglas Young MD
150 Units



Kevin Foster DO
143 Units



Timothy Philpott MD
141 Units



Scott Meyer MD
108 Units



Janet Matuszek DO
102 Units

New Leaders



Aaron Pile MD
120 Units



Jamie Puckett MD
110 Units



Fred Durer MD
102 Units

Join Us at the 1st Gift Golf Tournament!



This year is the 16th anniversary of the First Gift Golf Event for the benefit of the Saint Louis Cord Blood Bank at SSM Cardinal Glennon Children's Medical Center. This year, the event will be

held **Monday, October 10th 2011 at Meadowbrook Country Club.**

Tickets may be purchased at the Cardinal Glennon Children's Foundation website at: <https://www2.glennon.org/firstgift/tickets.aspx>

Governor Jay Nixon Signs Cord Blood Bill at the St. Louis Cord Blood Bank

A bill signing ceremony was held at the St. Louis Cord Blood Bank on July 12 where Governor Jay Nixon signed HB197 into law. This bill encourages doctors to talk to every expectant mother about cord blood. It also provides for a comprehensive presentation about cord blood donation on the Department of Health and Senior Services Web site. This bill was sponsored by Missouri State Representative Tishaura Jones.



Above: *Joining the governor for the bill signing, from left to right, are Cardinal Glennon President Sherlyn Hailstone, Missouri Senator Robin Wright Jones and Donna Regan, Executive Director of the St. Louis Cord Blood Bank.* Right: *Missouri State Representative Tishaura Jones.*



For the Gifts of Hope and Life

♥ = One or more banked units chosen for transplant.

Honor Roll

The St. Louis Cord Blood Bank recognizes the following individuals who collected 100 units or more in the previous twelve months between July 1, 2010 and June 30, 2011. Together they banked 319 cord blood units.

♥ Douglas Gates MD* 238

♥ Young, Doug MD	198	♥ Meyer, Scott MD	135	♥ Puckett, Jamie MD	115
♥ Pile, Aaron MD	156	♥ Philpott, Timothy MD	133	♥ Dietrich, Gina DO	107
♥ Foster, Kevin DO	139	♥ Herrmann, Joe MD	115	♥ Matuszek, Janet DO	106

The St. Louis Cord Blood Bank gratefully recognizes the following physicians and midwives for the thousands of cord units they have collected during the last twelve months.

80 to 99 Units Collected

♥ Benson, Michael DO
 ♥ Cannon, Sara MD
 ♥ Kagumba, Ada MD
 ♥ Lindsey, Lora MD
 ♥ Mormol, Jeff MD
 ♥ Oatey, Mary DO
 ♥ Rempe, Margaret MD
 ♥ Smith, Jennifer MD
 ♥ Talsky, Joseph MD
 ♥ Tissier, Brad MD
 ♥ Walker, Frank MD
 ♥ Wikoff, Catherine MD
 ♥ Woodard, Deborah MD

60 to 79 Units Collected

♥ Biest, Scott MD
 ♥ Bishop, Donald MD
 ♥ Boveri, Lawrence MD
 ♥ Brondz, Igor MD
 ♥ Bucy, Nanci DO
 ♥ Combs, Douglas MD
 Dewey, Kate MD
 ♥ Doll-Pollard, Anne MD
 ♥ Dureska, Peter MD
 ♥ Friye, Pamela DO
 ♥ Gozia, Penny MD
 Hahn, Eran MD
 ♥ Herrmann, Michael MD
 ♥ Hulsen, Thomas MD
 Kelsey, Sekou MD
 ♥ Konkol, Deborah MD
 ♥ Krasnoff, Claudia MD

♥ Mathus, Steven MD
 ♥ Midkiff, Christine MD
 ♥ Miller, Rick DO
 ♥ Mussemann, Frank MD
 ♥ Pearse, Carlton MD
 ♥ Pearson, William MD
 ♥ Potts, Gregory MD
 Reining, Angela MD
 ♥ Rockamann, Ann Marie MD
 ♥ Schuetz, Evelyne MD
 ♥ Snowden, Kent MD
 ♥ Streiff, Gigi MD
 Thomas, Jean MD
 Treece, Yvonne MD
 ♥ Turner, Jacqueline MD
 ♥ Wasserman, Mark MD
 ♥ Williams, Scott MD

40 to 59 Units Collected

♥ Andrews, Brian MD
 ♥ Appelbaum, John MD
 ♥ Babar, Sangeeta MD
 ♥ Boveri, Stephen MD
 ♥ Boyd, Craig MD
 Cartwright, Angela DO
 Chen, Michael MD
 ♥ Cruz, Paul MD
 ♥ Dalla Riva, James MD
 ♥ DeGreeff, Louis MD
 ♥ Dixon, Michael MD
 ♥ Durer, Fred MD
 Eichholz, Amy MD
 Forseter, Shanon MD
 ♥ Fowler, Karyn MD
 ♥ Gelly, Bonnie MD

♥ Gingrich, Tina MD
 Gosser, Brian MD
 ♥ Gray-Swain, Roseanna MD
 ♥ Hosseini, Hamid MD
 ♥ Jones, Sherry MD
 ♥ Jostes, Mark MD
 ♥ Kisabeth, Tim MD
 ♥ Klabi, Laurie MD
 ♥ Kodner, Holly MD
 ♥ Kuebel, Richard MD
 ♥ Ladd, Christine MD
 ♥ LaPoint, Paul MD
 Lazarus, Sasha MD
 ♥ Mani, Mary MD
 ♥ McDaniel, Kirsten DO
 ♥ McDonald, Jennifer DO
 ♥ Meckler, Denise MD
 ♥ Mero, Tanya MD
 Mulch, Amanda MD
 ♥ Mussemann, Helen MD
 Nelson-Mason, Valerie MD
 ♥ Patel, Meera MD
 ♥ Sachar, Jerome MD
 ♥ Sample, Andrea MD
 Shah, Mitul MD
 ♥ Shelton, Becky MD
 ♥ Shores, Sarah DO
 ♥ Sullivan, Pam MD
 ♥ Tapia, Paul MD
 ♥ Thompson, Jeff MD
 ♥ Voegtler, Karen MD
 ♥ Wagner, Daniel MD
 Walker, Latashia MD
 ♥ Wasserman, Gary MD
 ♥ Weinstein, David MD
 ♥ Wolaniuk, Anna MD

20 to 39 Units Collected

Afriyie-Gray, Akua MD
 ♥ Ahlering, Christopher MD
 Alten, Beverly MD
 ♥ Anstey, John MD
 ♥ Baalman, Laura MD
 ♥ Bale, R. Don MD
 ♥ Baumann, Daniel MD
 ♥ Behm, Frederick MD
 ♥ Blaskiewicz, Robert MD
 Bleckman, Christy MD
 ♥ Boedeker, James MD
 ♥ Bowers, Jessica MD
 ♥ Branson, Kent MD
 ♥ Brennan, James MD
 ♥ Brennan, Richard MD
 ♥ Brown, Robert MD
 ♥ Bryan, Bruce MD
 ♥ Caudill, Chad MD
 ♥ Chadwick, William MD
 Clancy, Stacey MD
 Collins, Cheresse MD
 ♥ DeRosa, Michael MD
 Dickert, Erin MD
 ♥ Durel, Justin MD
 Engeljohn, Darryl MD
 Fivecoat, Jessica MD
 Garrett, Elizabeth Keegan MD
 ♥ Gearhart, Beth MD
 ♥ Glass, Todd MD
 ♥ Glover, Bruce DO
 Gould, Julie MD
 Graseck, Anna MD
 Grindler, Natalia MD
 ♥ Haskins, Robert MD
 ♥ Hazan, Joseph MD
 Hensley, Mark MD
 Herrick, Diana CNM
 Hoff, John MD
 Hopeman, Meg MD
 Houseworth, William MD
 ♥ Hucker, John MD
 Hugge, Christina MD
 ♥ Hulbert, Laura MD
 ♥ Jewell, Gregory MD
 ♥ Johar, Ravi MD
 Jones, Jeffrey MD
 ♥ Joyce, Jamie MD
 Keegan, Molly MD
 Knight, Teresa MD
 ♥ Lange, Donald MD
 Laue, Laura DO
 Levy, Edward MD

Lieberman, Scott MD
 ♥ Lifits, Yulia MD
 Lynch, Alyssa DO
 Marshall, Melissa MD
 McCloskey, Leslie MD
 ♥ McDonald, Daniel MD
 ♥ McLaughlin, Carole MD
 Meyer, Jennifer MD
 ♥ Mimitz, Ted MD
 ♥ Moeller, Delbert MD
 Moore, Laura MD
 ♥ Morgan, Caroline MD
 ♥ Morton, Eric MD
 ♥ Mostello, Dorothea MD
 ♥ Mueller, Cynthia MD
 Murray, Kelly CNM
 Nguyen, Thinh MD
 Oberneufemann, Sylvia CNM
 ♥ Ojascastro, Louis MD
 Owens, Markel MD
 ♥ Padratzik, Jay MD
 ♥ Panchamukhi, Sridevi MD
 Parini, Casey MD
 ♥ Patrick, Frank MD
 ♥ Paul, Michael MD
 ♥ Petersen, Diane MD
 Petrosky, Emiko MD
 ♥ Piche-Radley, Anne MD
 ♥ Pignotti, Blasé MD
 ♥ Pryor, Carolyn MD
 ♥ Rai, Jodie MD
 Ravin, Amy MD
 ♥ Ricketts, Jack MD
 ♥ Rose, Shayla MD
 ♥ Rosenquist, Chris MD
 Rudolph, Clare MD
 ♥ Ruggeri (Harrison), Amy MD
 ♥ Rutledge, Bridget MD
 ♥ Salinas, Mario MD
 Sammons, Emily MD
 Sanford, Daniel Keith MD
 ♥ Schneider, Catherine MD
 Scott, Leslie MD
 Seyer, Anne MD
 ♥ Shaner, Thomas MD
 Slat, Stacy MD
 Sonn, Tammy MD
 ♥ Staten, Patrice MD
 ♥ Stein, Renee MD
 Sudvarg, Abbe MD
 ♥ Super, Dave MD
 Tepe, Melissa MD
 ♥ Thompson, Soldrea MD
 Thomure, Michael MD
 ♥ Tritto, April MD

♥ Tse, Gladys MD
 ♥ Tsung, Francis MD
 Turner, Geoffrey MD
 Vlastos, Emanuel MD
 ♥ Walsh, Barbara MD
 Ward, Donald G. MD
 ♥ Willers, Denise MD
 ♥ Wool, Elliot MD
 Xynos, Nicole MD
 ♥ Xynos, Pericles MD
 ♥ Young, Tammy CNM
 Zakroff, Sandra MD

1 to 19 Units Collected

Alvarez, Alejandra MD
 ♥ Amon, Erol MD
 Anand, Mallika MD
 Anderson, Sara MD
 Artal, Raul MD
 ♥ Barr, Susan MD
 ♥ Bartelsmeyer, James MD
 Baum, Margaret MD
 Beard MD
 ♥ Becker, Robert MD
 Belcher, James MD
 Benn, Teri MD
 Bereda, David MD
 Bhutto, Shafia MD
 Bolanos, Ricardo MD
 Bolger, Holly MD
 ♥ Boyd, Emily MD
 Bray, Kenneth MD
 ♥ Brennan, Robert MD
 Burns, Laviya MD
 Cahill, Allison MD
 Campbell, Pamela DO
 Canas-Polesel, Adriana MD
 Carns, Wendi MD
 Carron, Danielle MD
 Carter, Kimberly MD
 Chanduwadia, Dossu MD
 Clarke, Paul MD
 Collins, Breck MD
 ♥ Colon, Vincente MD
 Colton, Eric MD
 Cross, Veronica MD
 Crowe, John MD
 Cugini, Heather MD
 Czarnecki, Daniel MD
 Danis, Peter MD
 Day, Misty MD

Derby, Richard MD
 DOnzes, Kelly CNM
 Dubas, Nicole MD
 Dunbar, Amy MD
 Dundoo, Lakshmi MD
 Eastep, Laura MD
 ♥ Fadden, Clare MD
 ♥ Fisher, Marsha MD
 Freeman, Charles MD
 ♥ Gasser, George DO
 ♥ Goldman, Gordon MD
 Goodwin, Julie MD
 Grabosch, Shannon MD
 Gratzter-Venturella, Allison MD
 Gray, Richard MD
 ♥ Grechus, John MD
 Green, Salina MD
 Greenspoon, Jeffrey MD
 Grentzer, Jaclyn MD
 ♥ Grimm, Mary MD
 Groden, Jessica MD
 Gross, Gilad MD
 Gulbrandsen, Eric MD
 Guthrie, Marjorie MD
 ♥ Hahn, Yoram MD
 ♥ Hamai, Kenneth MD
 ♥ Hamilton, John MD
 Hammons, John MD
 ♥ Handler, Michael MD
 ♥ Hanley, Thomas MD
 Harper, Lori MD
 Harris, Robert MD
 Hartel, Kimberly MD
 ♥ Hartman, Richard MD
 Hassler, Rebecca CNM
 Hawkins, Cherady MD
 Hebdon, Adam MD
 ♥ Hill, Joseph DO
 Hinkle, Patricia MD
 Hoekzema, Grant MD
 ♥ Houck, William E. MD
 ♥ Hua, David MD
 ♥ Huelskoetter, Elisabeth MD
 Huelsmann, Cynthia MD
 Humphrey, Andrea MD
 Hurford, Dennis MD
 Ioffe, Yevgeniya MD
 Jacob, Saji MD
 Jacobsen, Christine MD
 James, Jade MD
 Jensen, Lois MD
 ♥ Jessup, Michael MD

Juroviesky, Kimberly CNM
 Kay, Helen MD
 Kearney, Tina MD
 Keegan-Garrett, Elizabeth MD
 Kenerson, Jessica MD
 Kim, Chi MD
 ♥ Kim, Daniel MD
 ♥ Kim, J Hoon MD
 King, Maureen MD
 ♥ Klein, Jacob MD
 Kleweis, Shelby MD
 Kossler, Karla MD
 ♥ Kumari, Vijaya MD
 Kuroki, Lindsay MD
 Lagow, Julia MD
 Lam, Tony MD
 ♥ Lamping, J Daniels MD
 Laska, Cate MD
 Lazaroff, Richard MD
 Lee, Gary DO
 Lee, Shelley DO
 LeFevre, Cherie MD
 Lemmons, Jessica MD
 ♥ LeMoine, Kimberly MD
 Levey, Gretchen MD
 Lim, Piemsak MD
 Lindsay, Tammy MD
 Lloyd, Emilia MD
 Loeb, Lola MD
 Macones, George MD
 ♥ Maitz, Carlos MD
 Malone, Sara MD
 Mansouri, Jelriza MD
 Marcrauder, Margaret MD
 Martin, Jared MD
 Masoudi-Stephens, Sahar MD
 Massey, Susan CNM
 ♥ McBride, Marsha MD
 ♥ McCaffrey, T. Joseph MD
 McCarthy, Margaret MD
 McCleary, Marc MD
 McNamara, Jennifer MD
 McNeive, Daniel MD
 McNicholas, Colleen MD
 McNieve, Daniel MD
 McPherson, Jessica MD
 Meints, Laura MD
 Menges, Christi MD
 Merritt, Melvin MD
 Mertins, Luis MD
 Meyer, Nicholas MD
 Meyers, Ivan MD

Miller, Thomas MD
 Minchow-Proffitt, Sandra MD
 Mistry, Themton MD
 ♥ Monterubio, Fred MD
 ♥ Moore, Sue MD
 ♥ Mora, Alvaro MD
 Morris, Bruce MD
 ♥ Muckerman, Richard MD
 ♥ Munir-Bhutto, Shafia MD
 Myles, Thomas MD
 ♥ Nash, Anne MD
 Nelson, Donald MD
 Nguyen, Trung MD
 Noble, Catherine MD
 ♥ Norman, Shayna MD
 North, Jamie MD
 Nwanodi, Oroma MD
 Ogutha, Jacqueline MD
 O'Neil, Callie MD
 O'Neill, Kate MD
 Orange, Betty MD
 Ortillo, Amondo MD
 Ott, Kelly MD
 Ott, William MD
 Park, Chong MD
 ♥ Parker, April MD
 Parks, Laura MD
 Pennycook, Jenny MD
 Pierre, Frantz A. MD
 Podorozhansky, Yelena MD
 Porter, Verna MD
 Potter, Shannon MD
 Powell, Jill MD
 ♥ Pringle, Scot MD
 ♥ Pyeate, Jacob MD
 ♥ Rampersad, Roxanne MD
 Reed, Janice MD
 Reed, Jonathan MD
 Reed, Lindsay MD
 Reynolds, Sara MD
 Rice, Lauren MD
 ♥ Riley, Patrick MD
 Ripperda, Jeffrey MD
 Rivera, Victor MD
 ♥ Robacker, Charles MD
 ♥ Robinson, Janet MD
 Rodgers, Blake MD
 ♥ Rojanasathit, Chinda MD
 Rosen, Diane MD
 Schaecher, Caren MD
 Schaeffer, Debra MD
 Scharff, Kevin MD

Schiemenz, April MD
 ♥ Schnapp, Anita MD
 Schon, Samantha MD
 Scolari, Katherine MD
 Sensintaffar, Lowell MD
 ♥ Shanks, Anthony MD
 ♥ Shroff, Kumkum MD
 Shroff, Rupal MD
 ♥ Shumway, Joseph MD
 Shyken, Jaye MD
 Siemer, Deanna MD
 ♥ Simckes, Elan MD
 Smith, Jodi DO
 Smith, Kylie MD
 Snidle, William MD
 Snyder, Scott MD
 ♥ Sopuch, John MD
 Spitalnik, Amanda MD
 Stamilio, David MD
 Stanton, Ranae Marie MD
 Stephans, Sahar MD
 ♥ Stephens, Andrea MD
 Stout, Molly MD
 Strathmann, Richard MD
 Stuart, Jourdan MD
 Stubbs, James MD
 Temporal, Michael MD
 ♥ Thompson, Bryant MD
 Thrupkaew, Soontorn MD
 ♥ Tobey, Albro C MD
 Tuuli, Methodius MD
 ♥ Uhls, Ann Behrend MD
 Venezia, Gaetano MD
 Venturella, Allison MD
 Verticchio, Julianna MD
 Vitrikas, Kirsten MD
 Wallenstein, Matthew Ben MD
 ♥ Walls, David MD
 Webb, Gilbert MD
 Weis, Matthew MD
 ♥ Werner, Caroline MD
 ♥ Whalen, Thomas MD
 Wheaton, Monica CNM
 ♥ White, Donna MD
 Williams, Ben MD
 Williams, Sherry MD
 Williams, Sonja DO
 Winner, Brooke MD
 Wolfe, Michelle MD
 Woolard, Diane MD
 ♥ Wuebker, Heather MD
 Zinck, Darryl MD

St. Louis Cord Blood Bank

SSM Cardinal Glennon Children's Medical Center
St. Louis University Department of Pediatrics

The First Gift™

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T H E F I R S T G I F T SM



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