

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 Gift SM



Glad To be Here!

Dr. William Miller, MD, Medical Director

This is my first opportunity to write for the newsletter since joining the Cord Blood Bank in March. I have had a long career in blood banking, including nearly 20 years with the American Red Cross in St. Louis. During that time I became interested in cellular therapies, and later, stem cell biology. The onset of the HIV/AIDS epidemic in the 1980s caused me to leave my personal research behind and focus all my energies on ensuring a safe, adequate blood supply at a reasonable cost. Blood transfusion had to be safe, effective, and at the lowest cost consistent with safety and effectiveness.

I followed with growing interest the developing use of stem cells in the treatment of human disease, and even had the opportunity to become involved in a clinical trial of autologous adult stem cells in the treatment of advanced breast cancer. I watched as private cord blood banks began to stimulate public interest and then public cord blood banks began to emerge. With the success of cord blood stem cells in marrow transplantation almost 15 years ago, the stage was set for exciting development.

So imagine my delight when I found that there was a vacancy here at home in St. Louis, and my even greater delight when I was offered the job as Medical Director at the St. Louis Cord Blood Bank (SLCBB). My continuing commitment to safety and efficacy of blood transfusion transferred easily to cord blood. Indeed, the possibility of regenerative medicine seems to be close at hand; but several important decisions need to be made.

First, are cord blood stem cells to be bought and sold as a commodity? I have been a strong supporter of voluntary blood, tissue, and

organ donation for nearly 40 years, and remain so. The SLCBB has a similar value system, but there are those that feel “the market” should determine how stem cells should be available. I hope not. I believe that human tissues and organs should not be bought and sold for profit any more than people should be bought and sold.

Second, the SLCBB is a national leader in cord blood banking, and has probably supplied as many cord blood transfusions as anyone except the pioneering New York Blood Center. But if we are to continue to grow, we must have a research base to advance the science. Research is expensive, and developing a planned research effort will require a lot of resources. Careful planning will be necessary to keep our focus on advancing research, while also making safe and effective stem cells for ongoing medical care.

Finally, will we maintain our focus on cord blood or re-examine other cellular therapies and related laboratory work as well? Our facilities, our highly skilled staff, and a time of opportunity require that we think through our options.

There are other issues that interest me. Getting more African-American donors, badly under-represented now, is an obvious priority. Streamlining and automating our procedures is another, as is the implantation of a quality database, so that we can learn from our past.

I’m a “senior” and friends ask me how long I plan to work. My response is that as long as my work is as satisfying as my first three months at the SLCBB, I will work until I am no longer able. The institution is a true hidden treasure in St. Louis, and I will do what I can to ensure that it remains a treasure, but no longer hidden.



Will the Cord Blood You Collect Make it to the Freezer?

Kathleen Fortune, Quality Control Analyst

For all cord blood units collected, the primary goal is to find a home in one of our liquid nitrogen freezers, because only the units in the freezer can be used for transplant.

Each cord blood unit collected and sent to the St. Louis Cord blood Bank for processing has to meet three very important requirements before it receives the necessary processing to place it in the freezer. First, each cord blood unit, its accompanying paperwork, and tubes of blood must be labeled with the mother’s name and her birth date. It’s important that both identifiers are on each label. (It’s amazing

how many people there are in the world with the exact same name!) Next, each unit of cord blood is weighed. It must weigh at least 110 grams, or it doesn’t pass. Finally, the unit is evaluated to get a complete blood cell count. The concentration of white cells has to be a minimum of one billion. The more the unit weighs, the higher the probability that it will meet this threshold.

The great thing about giving your time to collect cord blood is that as little as one extra minute taken to fill the bag or check the paperwork, can mean one more person gets another chance at life. Thanks for helping us save lives.



Ensuring Ethical Use of Your Contributions

Donna Regan, Executive Director

The St. Louis Cord Blood Bank (SLCBB) is committed to advancing cures through the use of umbilical cord blood stem cells. Cord blood collections are subject to strict criteria that qualify a product for human transplantation. When they don't meet these stringent standards, our informed consent process allows us to utilize products for research.

As part of Cardinal Glennon Children's Medical Center, the SLCBB has a strong commitment to support only those activities endorsed by the Catholic faith, and so must the investigators who collaborate with us. They must abide by the current rules governing the use of human embryonic stem cells for research as

established by existing NIH policy. In addition, investigators may not engage the material we provide in research utilizing somatic cell nuclear transfer (cloning) with human cells.

To fulfill our obligation of responsible distribution to our donating families, we require that the principal investigator describe the proposed studies using cord blood and submit a copy of their IRB authorization in order to use our umbilical cord blood for research (if applicable). Researchers do not have access to any identifiers linking any products we provide to a particular donor. Therefore, any data resulting from their studies are clearly anonymous.

Advancing Cord Blood Stem Cell Research

In 2008, the SLCBB distributed 1289 units for investigative research. We are not reimbursed for any of these activities, exemplifying our commitment to advancing therapies by recycling this precious resource. Current projects for which some of our products are utilized include:

Immune System

Translating the factors involved in the suppressive action of regulatory T cells — those cells that keep the immune system in check by suppressing reactivity to 'self' cells and tissues.

Differentiation

Analyzing how hematopoietic progenitor cells (HPCs) from cord blood differentiate into lymphocytes. HPCs are stem cells that give rise to all the blood cell types; lymphocytes are immune system cells that defend against bacteria, viruses, and cancer cells.

Expansion

Evaluating expansion strategies using cord blood stem cells to overcome cell dose limitations which can be a barrier to cord blood transplantation in adults and larger children.

Transduction

Investigating the utility of cord blood stem cells in gene transduction, a process in which DNA is inserted into cells, traditionally using viruses.

Imaging

Enhancing cellular endocytosis to provide the basis for useful imaging and therapeutic modalities in the future. Endocytosis is the process by which cells absorb material from outside the cell by engulfing it with their cell membrane.

Sepsis

Examining the efficacy of drug therapy and compounds on the outcome of sepsis (systemic bacterial infection).

Inflammation

Using umbilical cord blood (UCB) as a source of circulating endothelial cells and leukocytes for inflammatory studies. Examples of disorders associated with inflammation include autoimmune diseases, asthma, arthritis, and transplant rejection.

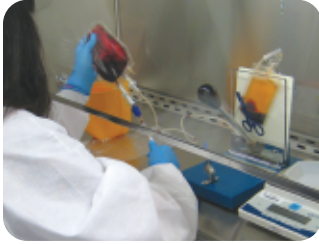
Immune Recovery

Studying UCB cell populations to determine which mechanism can accelerate T-cell recovery and immune reconstitution after cord blood transplant.

Quality Control

Using UCB for internal quality control and validation exercises at transplant center laboratories as a means to promote best practice and provide optimal patient outcomes.

Cord Blood Collection Begins in Kansas City



St. Luke's Hospital of Kansas City has joined the St. Louis Cord Blood Bank's collection program. The hospital delivers more than 2,000 babies a year, 40 percent of which are minority or mixed race. This will enhance the diversity of the

St. Louis Cord Blood Bank's inventory. Donated cord blood units will be tested and processed at St. Luke's stem cell processing laboratory, then shipped to St. Louis for storage and distribution.

Anthony Ritter Memorial Fish Fry Marks Thirteenth Year in Chester, Illinois

As the twelve years previously, Mike and Donna Ritter and numerous volunteers held a fish fry at the Knights of Columbus hall in Chester, Illinois, and donated the proceeds to the St. Louis Cord Blood Bank. This year, their contribution was nearly \$1,700. The event is in memory of their son, Anthony, who underwent a stem cell procedure at SSM Cardinal Glennon Children's Medical Center. We are grateful for their continued support and their desire to help us save lives.



Back row, left to right: Mike Ritter, Donna Ritter, Chuck Fricke, Hubert Brace. Front row, left to right: Trace Fricke, Ashley Fricke, Brandon Sauerhage, Cristie Brace, and Logan Brace.

Two Supporters of the St. Louis Cord Blood Bank Receive National Award

Mollie Forsch and Ellen Port received the Lifeline Award from the National Marrow Donor Program (NMDP) at the 13th annual First Gift Golf Tournament held at the Meadowbrook Country Club. The women were recognized for their outstanding efforts in generating community awareness of cord blood donation and sponsoring operations of the St. Louis Cord Blood Bank over the last 13 years.



Left to right: Doug Kingsriter, President, The Marrow Foundation; Ellen Port; Sherlyn Hailstone, President, SSM Cardinal Glennon Children's Medical Center; and Mollie Forsch.

Progress West Health Care Center Joins Our Cord Blood Program



Progress West was St. Charles County's first new hospital in more than two decades when it opened in February of 2007, and it remains the newest among the 29 participating hospitals in

the St. Louis Cord Blood Bank's cord blood collection program. Progress West collected its first cord unit in March of 2007 and has collected more than 400 to date.

SSM St. Mary's Health Center Receives Award for Collection Efforts

The staff of the Labor and Delivery Unit at SSM St. Mary's Health Center were honored for efforts that resulted in a dramatic increase in cord blood collections at their facility. St. Mary's is important to the program because of the large number of minority and mixed race births that take place there.

Left to right: Vicki Geiler, St. Louis Cord Blood Bank; Kelly



Sexton; Marie Grubb; Ellen Sartorius; Amanda Jones; Rhonda Wilkinson; Julie Knoff; and Pam Lessor, Clinical Director.

The 100+ Club

Participating hospitals receive this award when 100 of the cord units they have collected have been used by transplant centers around the world. Four hospitals have reached this landmark.

Missouri Baptist
MEDICAL CENTER

Over 310



ST. JOHN'S MERCY
MEDICAL CENTER

More than 190

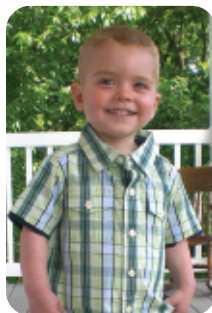


Our specialty is you.

More than 150

SSM St. Joseph Hospital West Over 100

Cord Unit From St. Louis Cord Blood Bank Saves Bolivar "Bubble Boy"



Six-month-old Granton Bayless was taken to the emergency department in Coffeyville, Kansas in March, 2008. He was diagnosed with respiratory syncytial virus (RSV) and bilateral pneumonia. The following day, he was flown to St. John's Hospital in Springfield, MO. However, his condition worsened, so five days later, he was sent to Children's Mercy Hospital in Kansas City, Missouri.

Complications

His pneumonia and RSV had become so severe that his lungs had become perforated. Granton was placed on a ventilator with tubes in his chest to suction the air leaking from his lungs. He was also medically paralyzed to prevent injury from the tubes and sensors attached to him, and also to conserve energy and oxygen.

Diagnosis

Granton was diagnosed with severe combined immunodeficiency syndrome (SCIDS), a rare condition that prevents the patient's body from producing enough T cells to resist disease. Successful treatment required a stem cell transplant, but neither of his parents was a suitable match.

Critical Choice

An unrelated donor was found for both a bone-marrow and a cord blood match. However, there was concern that the bone marrow stem cells might attack the virus too aggressively, and make Granton's lung condition worse. Cord blood stem cells, on the other hand, would slowly attack the virus. So, cord blood was chosen for transplant.

St. Louis Connection

The transplant was performed in June and Granton went home in September. He is doing well as of this writing. The cord blood unit that saved this child's life was collected by one of the St. Louis Cord Blood Bank's participating physicians and midwives, and was stored in our facility since 2000.

The Pay-Off

Granton Bayless is alive today because of the generous contributions of time and effort by all the doctors, midwives, and nurses who collect cord blood for the St. Louis Cord Blood Bank.



Cord Blood Champion

Dr. Douglas Gates, M.D. of Carbondale, Illinois has been the St. Louis Cord Blood Bank's top collector for the past 6 years, and was in the top five in 1998 and 2000. He has collected 1,621 units and banked 408 units since he joined our program in 1997.

SSM St. Joseph's Hospital West Achieves Cord Blood Milestone

Over one hundred of the thousands of umbilical cord blood units collected by SSM St. Joseph Hospital West (SJHW) in Lake Saint Louis, MO have been used by transplant centers around the world. St. Joseph Hospital West is only the fourth hospital to reach this milestone. There are 29 hospitals participating in the St. Louis Cord Blood Bank's community collection program. The SJHW Women's Services Department was recognized by the St. Louis Cord Blood Bank on October 9.



Left to right: Verna Meacham, interim hospital president; Judy Grannemann, RN, CTC; Cindy Stouffer, RN; Toni Kennedy, RN; Kim Deptula, RN; Sarah Brooks, RN; Elaine Bote, RN; Kathy Mueckl, RN, St. Louis Cord Blood Bank.

Seven Doctors Receive Leadership Awards

The leadership award is given to doctors and midwives who have placed in the top five collectors in any particular year(s). This is the first year for this award.



Kevin Foster DO
7 years top five
2 years first place



Carlton Pearse MD
7 years top five



Nanci Bucy DO
7 years top five
1 year first place



Joe Herrmann MD
2 years top five



Timothy Philpott MD
4 years top five



Gina Dietrich DO
3 years top five



David Weinstein MD
6 years top five
2 years first place

For the Gifts of Hope and Life

Honor Roll

The St. Louis Cord Blood Bank recognizes the following individuals who collected 100 units or more in the 12 months between 6/1/08 and 5/31/09. Together they banked 154 cord blood units.

Douglas Gates MD ▶ 210

Kevin Foster DO ▶ 143

Timothy Philpott MD ▶ 102

Joe Herrmann MD ▶ 112

Gina Dietrich MD ▶ 100

The St. Louis Cord Blood Bank gratefully recognizes the following physicians and midwives for their participation in our program during the last 12 months ending 5/31/09.

Akua Afriyie-Gray MD
Christopher Ahlering MD
Danita Akingba MD
Erol Amon MD
Sara Anderson MD
Brian Andrews MD
John Anstey MD
John Appelbaum MD
Raul Artal MD
Laura Baalman MD
Sangeeta Babar MD
R. Don Bale MD
Susan Barr MD
Michael Barron MD
James Bartelsmeyer MD
Margaret Baum MD
Daniel Baumann MD
Robert Becker MD
Frederick Behm MD
James Belcher MD
Michael Benson DO
Vaishali Bhalani MD
Scott Biest MD
Donald Bishop MD
Robert Blaskiewicz MD
Christy Bleckman MD
Jennifer Bobell MD
James Boedeker MD
Kathryn Botney MD
Lawrence Boveri MD
Stephen Boveri MD

Jessica Bowers MD
Craig Boyd MD
Emily Boyd MD
Kent Branson MD
James Brennan MD
Richard Brennan MD
Robert Brennan MD
Igor Brondz MD
Robert Brown MD
Bruce Bryan MD
Nanci Bucy DO
Lavius Burns MD
Pamela Campbell DO
Adriana Canas-Polesel MD
Sara Cannon MD
Wendi Carns MD
Angela Cartwright DO
Arthur Casey MD
Chad Caudill MD
William Chadwick MD
Michael Chen MD
Stacey Clancy MD
Paul Clarke MD
Cherese Collins MD
Vincente Colon MD
Eric Colton MD
Douglas Combs MD
Michael Covlin MD
Veronica Cross MD
John Crowe MD
Paul Cruz MD

Daniel Czarniecki MD
James Dalla Riva MD
Peter Danis MD
Tammee Davis DO
Misty Day MD
Louis DeGreeff MD
Michael DeRosa MD
Kate Dewey MD
Jason Dewitt MD
Gina Dietrich DO
Michael Dixon MD
Anne Doll-Pollard MD
Nicole Dubas MD
Lakshmi Dundoo MD
Justin Durel MD
Fred Durer MD
Peter Dureska MD
Mark Edelstein MD
Darryl Engeljohn MD
Clare Fadden MD
Amy Farrell MD
Marsha Fisher MD
Shanon Forseter MD
Kevin Foster DO
Karyn Fowler MD
Nastaran Foyouzi MD
Craig Frayer DO
Charles Freeman MD
Pamela Friye MD
George Gasser MD
Douglas Gates MD

Beth Gearhart MD
David Gearhart MD
Bonnie Gelly MD
William Gerber MD
Tina Gingrich MD
Todd Glass MD
Bruce Glover DO
Katherine Goetzinger MD
Gordon Goldman MD
Kara Goldman MD
Brian Gosser MD
Julie Gould MD
Penny Gozia MD
Allison Gratzner MD
Roseanna Gray-Swain MD
John Grechus MD
Salina Green MD
Jeffrey Greenspoon MD
Mary Grimm MD
Gilad Gross MD
Marjorie Guthrie MD
Eran Hahn MD
Yoram Hahn MD
Kenneth Hamai MD
John Hamilton MD
John Hammons MD
Thomas Hanley MD
Hoosna Haque MD
Donald Hardbeck MD
Lorie Harper MD
Rebecca Hartman MD
Richard Hartman MD
Robert Haskins MD
Cherady Hawkins MD
Joseph Hazan MD
Diana Herrick CNM
Joe Herrmann MD
Michael Herrmann MD
Joseph Hill DO
James Hitchcock DO
Grant Hoekzema MD
Hamid Hosseini MD
William E. Houck MD
Molly Houser MD
William Houseworth MD
Laura Houston MD
David Hua MD

John Hucker MD
Elisabeth Huelskoetter MD
Christina Hugge MD
Laura Hulbert MD
Thomas Hulsen MD
Andrea Humphrey MD
Dennis Hurford MD
James Jablonski MD
Saji Jacob MD
Jade James MD
Michael Jessup MD
Gregory Jewell MD
Ravi Johar MD
Michael Johnson MD
Traci Johnson MD
Vernon Johnson MD
Jeffrey Jones MD
Sherry Jones MD
Mark Jostes MD
Jamie Joyce MD
Kimberly Juroviesky CNM
Ada Kagumba MD
Tina Kearney MD
Lydia Keisler MD
Sekou Kelsey MD
Jessica Kennerson MD
Chi Kim MD
Daniel Kim MD
J Hoon Kim MD
Tim Kisabeth MD
Nora Kizer MD
Laurie Klabi MD
Jacob Klein MD
Teresa Knight MD
Holly Kodner MD
Deborah Konkol MD
Leslie Korostoff MD
Karla Kossler MD
Claudia Krasnoff MD
Richard Kuebel MD
Jeffrey Kueter MD
Vijaya Kumari MD
Christine Ladd MD
Tony Lam MD
J Daniels Lamping MD
Donald Lange MD
Paul LaPoint MD

Laura Laue DO	Christine Midkiff MD	Meera Patel MD	Catherine Schneider MD	Michael Thomure MD
Gary Lee DO	Thomas Miller MD	Frank Patrick MD	James Schreiber MD	Soontorn Thrupkaew MD
Roch Lefebvre MD	Rick Miller DO	Michael Paul MD	Evelyne Schuetz MD	Brad Tissier MD
Cherie LeFevre MD	Ted Mimplitz MD	Patricia Paul MD	Katherine Scolari MD	Albro C Tobey MD
Fanee Lekkas MD	Sandra Minchow-Proffitt MD	Carlton Pearse MD	Leslie Scott MD	Jessica Town MD
Jessica Lemmons MD	Themton Mistry MD	William Pearson MD	Mitul Shah MD	Nicole Treece MD
Kimberly LeMoine MD	Delbert Moeller MD	Diane Petersen MD	Thomas Shaner MD	Yvonne Treece MD
Edward Levy MD	Fred Monterubio MD	Timothy Philpott MD	Anthony Shanks MD	April Tritto MD
Paul Lewis MD	Laura Moore MD	Serin Phruttitum MD	Becky Shelton MD	Gladys Tse MD
Beth Lewkowsky MD	Sue Moore MD	Anne Piche-Radley MD	Donald Shelton MD	Christopher Tsueda MD
Scott Lieberman MD	Alvaro Mora MD	Frantz A. Pierre MD	Tammy Shim-Sonn MD	Francis Tsung MD
Yulia Lifits MD	Kristy Morales MD	Blasé Pignotti MD	Sarah Shores DO	Geoffrey Turner MD
Tammy Lindsay MD	Caroline Morgan MD	Aaron Pile MD	Kumkum Shroff MD	Jacqueline Turner MD
Lora Lindsey MD	Mary Ann Morley MD	Gregory Potts MD	Rupal Shroff MD	Ann Behrend Uhls MD
Trevor Lineberry MD	Jeff Mormol MD	Jill Powell MD	Joseph Shumway MD	Kirsten Vitrikas MD
Marc Luckett MD	Bruce Morris MD	Scot Pringle MD	Jaye Shyken MD	Emanuel Vlastos MD
Melissa Lueking MD	Eric Morton MD	Caroline Pryor MD	Deanna Siemer MD	Karen Voegtle MD
George Macones MD	Dorothea Mostello MD	Jamie Puckett MD	Elan Simckes MD	Daniel Wagner MD
Carlos Maitz MD	Richard Muckerman MD	Jacob Pyeate MD	Jennifer Smith MD	Frank Walker MD
Sarah Malone MD	Cynthia Mueller MD	Anya Rabinov MD	Jodi Smith DO	Latashia Walker MD
Mary Mani MD	Amanda Mulch MD	Jodie Rai MD	Todd Smith MD	Barbara Walsh MD
Margaret Marcrander MD	Shafia Munir MD	Roxanne Rampersad MD	William Snidle MD	Donald G. Ward MD
Melissa Marshall MD	Nathaniel Murdock MD	Beth Rasmussen MD	Kent Snowden MD	Gary Wasserman MD
Sahar Masoudi MD	Kelly Murray CNM	Amy Ravin MD	Scott Snyder MD	Mark Wasserman MD
Susan Massey CNM	Frank Mussemann MD	Jonathan Reed MD	John Sopuch MD	Joy Wayman CNM
Steven Mathus MD	Helen Mussemann MD	Lindsay Reed MD	William Stafford MD	Gilbert Webb MD
Janet Matuszek DO	Theresa Myers MD	Angela Reining MD	David Stamilio MD	David Weinstein MD
Katherine Maxson MD	Thomas Myles MD	Margaret Rempe MD	Ranae Marie Stanton MD	Caroline Werner MD
Jonathan Mayer MD	Anne Nash MD	Sara Reynolds MD	Patrice Staten MD	Thomas Whalen MD
Marsha McBride MD	Michael Nash MD	Elena Rhoads MD	Renee Stein MD	Monica Wheaton CNM
T. Joseph McCaffrey MD	Yvonne Negron MD	Jack Ricketts MD	Dawn Steiner MD	Donna White MD
Margaret McCarthy MD	Michael Nelson MD	Patrick Riley MD	Andrea Stephens MD	Catherine Wikoff MD
Marc McCleary MD	Valerie Nelson-Mason MD	Jeffrey Ripperda MD	Molly Stout MD	Denise Willers MD
Leslie McCloskey MD	Sara Nicholas MD	Charles Robacker MD	Richard Strathmann MD	Scott Williams MD
Kirsten McDaniel DO	Shayna Norman MD	Donna Robey MD	Gigi Streiff MD	Sonja Williams MD
Daniel McDonald MD	Elizabeth Nugent MD	Janet Robinson MD	James Stubbs MD	Brooke Winner MD
Jennifer McDonald DO	Oroma Nwanodi MD	Ann Marie Rockamann MD	Abbe Sudvarg MD	Robert Wochner MD
Donald McKeel MD	Mary Oatey DO	Chinda Rojanasathit MD	Pam Sullivan MD	Anna Wolaniuk MD
Carole McLaughlin MD	Sylvia Oberneufemann CNM	Shayla Rose MD	Dave Super MD	Deborah Woodard MD
Leslie McLoskey MD	Jacqueline Ogutha MD	Chris Rosenquist MD	Jack Swanson MD	Elliot Wool MD
Daniel McNeive MD	Louis Ojascastro MD	Margarita Roykhman MD	Joseph Talsky MD	Diane Woolard MD
Sara McNicholas MD	Chukwuma Okoroji MD	Amy Ruggeri MD	Paul Tapia DO	Heather Wuebker MD
Denise Meckler MD	Kate O'Neill MD	Bridget Rutledge MD	Michael Temporal MD	Doug Young MD
Tanya Mero MD	John Osborne MD	Jerome Sachar MD	Melissa Tepe MD	Tammy Young CNM
Luis Mertins MD	William Ott MD	Mario Salinas MD	Jean Thomas MD	Nastaran Yousefi MD
Nicholas Meyer MD	Jay Padratzik MD	Andrea Sample MD	Bryant Thompson MD	Sandra Zakroff MD
Scott Meyer MD	Sridevi Pancharukhi MD	Daniel Keith Sanford MD	Jeff Thompson MD	Mark Zerbe MD
Jennifer Meyers MD	Laura Parks MD	Kevin Scharff MD	Soldrea Thompson MD	Darryl Zinck MD
Michael Michener MD		Anita Schnapp MD		

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St. Louis University Department of Pediatrics

The First Gift™

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