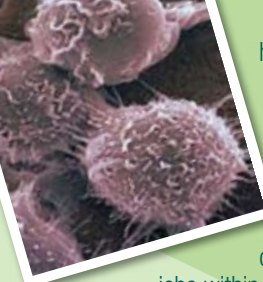


Life Lines

What are “Adult” Stem Cells?



Every adult human being is made up of many different types of very specialized cells organized into tissues and organs which carry out particular jobs within our bodies – muscle cells contract, nerve cells carry electrical messages, liver cells deal with toxic waste, so it seems a bit of a contradiction to talk about adult stem cells, when we have seen that stem cells are simple undifferentiated cells. However they do exist – adult stem cells are undifferentiated cells which are found among the normal differentiated cells in a tissue or organ of the body. They

can differentiate when needed to produce any one of the major cell types found in that particular tissue or organ. Another term for adult stem cells is somatic stem cells.

We have known about the stem cells in bone marrow which are capable of forming blood cells for about thirty years, and bone marrow transplants are used regularly in the treatment of certain cancers and immune system diseases. Gradually over the years scientists have discovered stem cells in the bone marrow which can generate bone, fat, cartilage and fibrous tissue and in the 1990's stem cells in the brain which can form the three main types of brain cells. In fact adult stem cells have been found in many different organs and tissues.

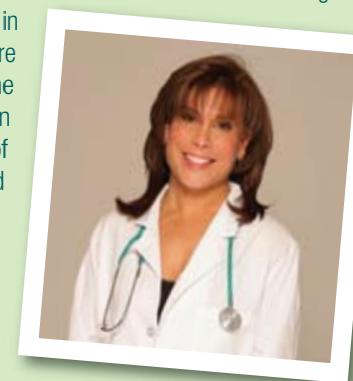
Scientists are working hard to develop better ways of culturing these adult stem cells

because large numbers of cells are needed for stem cell therapy and other therapeutic uses. Adult stem cells today offer hope for people with diseases ranging from Parkinson's disease affecting the brain to juvenile diabetes, leukemia, lymphoma, radiation sickness, multiple sclerosis, coronary heart disease, tissue repair & burns. Because adult stem cells are harvested from the individual who needs them, a rejection-free treatment provides additional benefits to patients who may not have had the same hope for recovery as they have today.

That's where the Stem for Life Foundation comes in. Help us help those who need help the most. Be a part of this charitable effort to enhance the quality of life for those who have nowhere else to turn.

Announcing Stem for Life

Hello. I am Dr. Robin Smith and I would like to welcome you to the Stem for Life Foundation and our inaugural newsletter “Life Lines.” Let me share with you some of the important developments in regard to the Foundation's core purpose: advancing the promise of adult stem cells in the treatment and care of those who have sustained injury and disease.



The Foundation was formed to assist our first responders (firefighters, police officers, emergency medical and military personnel), as well as the indigent children, men and women in our country to have access to the process of collecting, harvesting, storing and using – when needed – their own adult stem cells to enhance the course of their healing following exposure to harmful materials and disease. Using one's own adult stem cells eliminates any issues of possible rejection. Further, we are focusing our efforts to on adult stem cells – and not on embryonic or umbilical stem cells, so as to avoid any potential issues.

As you have probably seen in the recent national press, breakthrough advancements have been made on adult stem cells in regard to healing burns, exposures to hazardous materials, wounds, and various diseases. The Stem for Life Foundation is established to “protect those who protect us,” and to provide funding and access to these benefits also to those less fortunate.

In this our first newsletter, we'll review some of the progress being made on the medical front, as well as to share with you more of what the Stem for Life Foundation is all about.

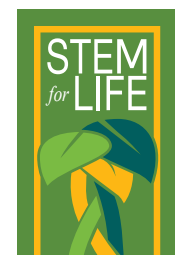
Most importantly, I would ask that you join us in this mission to enhance the quality of life for those who need it the most. Your contributions and active involvement will allow us to share the progress of medical science with those who would otherwise suffer long and painful periods of recovery. There can be no greater cause than this, and we look forward to your partnership with us.

Michael's Story

In 2004, Michael suffered a major heart attack. With a young family, Michael did not want to die. His doctors had tried multiple stents and an angioplasty without much success. Michael was placed on a heart donor list which had 5,000 people ahead of him. Being a diabetic further decreased his chances of finding a match.

Instead of waiting for a heart donor that might never come, Michael underwent a transplant utilizing his own Adult Stem Cells. Today, the part of Michael's heart that was dead is now alive and healthy. Recently, when asked what he thought about Adult Stem Cells, he stated, “I am living proof. Without my own stem cells, I wouldn't be here right now. They saved my life.”

Michael Carlat
Adult Stem Cell Cardiac Transplant Survivor



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How it Works

Advances in technology now allow us to increase the number of stem cells in the peripheral blood. The “mobilization” process involves two painless injections of a medication that causes the adult stem cells residing in the bone marrow to move into the peripheral blood. An apheresis procedure, similar to the process of donating blood, is the next step – all done in a safe and sterile environment, which separates the adult stem cells from the peripheral blood. The remaining cells are immediately returned into the body.

The entire process takes 3-4 hours without any after-effects.

Once your adult stem cells have been collected, they are safely stored in “state of the art” cryo-preservation tanks; and available for the rest of your life – after which they are destroyed.

For more information, contact us at: 212-584-4174, or click on the map on our website: www.stemforlife.org.



Who We Do It For and Why We Do It

All across our country, thousands of first responders report to work every day, or volunteer by serving without any compensation to answer the calls for those in emergency situations, ready to put their personal lives and safety at risk in order to protect the rest of us. Exposure to hazardous chemicals, fires with unknown combustibles, injuries and burns, infectious and communicable diseases are all what they encounter in a day's work.

Around the world, thousands of men and women in the military are placed into harm's way, exposed to known and unknown enemies with access to and use of

nuclear, biological, chemical and radiological weapons and materials. Our freedom depends on their commitment to keeping those threats at bay.

In towns and communities there are those among us that do not have access to medical care, or to treatment that can transform suffering into the promise of healing. Children and adults are all at risk to so many illnesses and diseases, but are without adequate medical care with which to cure them.

In each of these instances, shouldn't our “first response” be to those who need our help the most? That's the purpose behind the Stem for Life Foundation.

STEM
for LIFE



Adult Stem Cells Give Hope

By Dr. Manny Alvarez – Fox News

To understand the amazing impact stem cell use can have for modern medicine you should first understand what a stem cell is.

At first, all life comes from a single cell. Humans grow from just one fertilized egg into a tremendously complex organism. Each organ has its own specialized cells that "know" how to carry out their own special functions. A stem cell, however, is like that very first cell we all originally come from: it is able to become any cell we need it to be.

In fact, the fertilized egg is basically our very first stem cell; from it, we develop all the other cell types found within the human body. Adults still have stem cells in their tissues as they grow and adult stem cells have been collected from bone marrow for many years. They are different from embryonic stem cells because they have passed a certain point of "no return," meaning they cannot develop into an organ; however the possibilities are still tremendous as they can become different cell types.

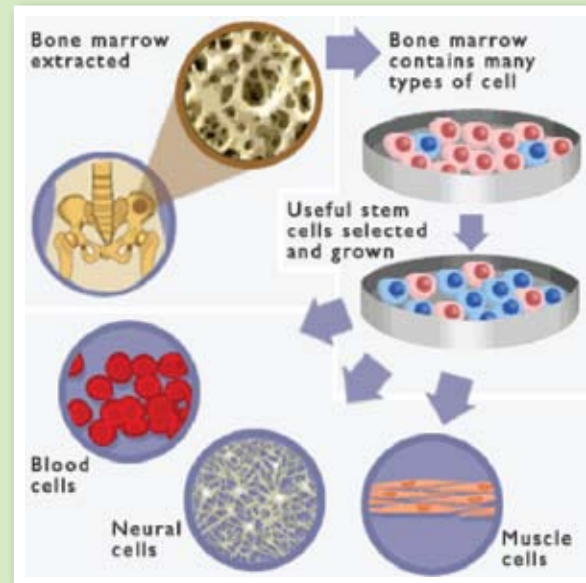
Adult stem cells can be found in the umbilical cord blood and placenta when babies are born, and can be saved or "banked" to offer new parents a certain peace of mind. Although stem cells from cord blood are the child's "own," and therefore can be transplanted without the risk of rejection, there is a limit to the number of cells that can be acquired.

"Some treatments may need more cells than you can extract from cord blood," says Dr. Julio Guerra, director of sales and marketing at Neostem (www.neostem.com), a company specializing in the collection, processing and long-term storage of adult stem cells for one's own use (autologous).

"It can save a child's life if certain blood disorders develop in the early years, but there may not be enough cells to treat an older child," Dr. Guerra continued. "Adult stem cells could hold

the key to life-long health by facilitating treatment of devastating diseases and as a result increasing longevity."

Banked adult stem cells can be used at a future date to treat a wide array of diseases, such as heart disease, osteoporosis, arthritis, and many other diseases. Because these are a person's own cells, there is no concern about finding a matched donor.



"A great benefit to using one's own adult stem cells is the fact that you do not have to worry about rejection of cells since your own cells are used for your treatment," noted Neostem's CEO and Chairman Dr. Robin Smith, M.D., M.B.A.

To place this in perspective, consider that less than 20 percent of patients who need a bone marrow transplant actually find a match in time to treat their disease.

There are currently over 160 clinical trials using autologous stem cells. New studies describing the clinical benefits of adult stem cells in the treatment of diseases are being published almost daily. Countless research teams around the world are trying to study the possibility of using adult stem cells to grow skin, improve muscle, build cartilage, and regenerate the vital cells of a failing organ.

In addition, growing interest in regenerative medicine is also driving the demand for convenient stem cell banking methods. The results so far are definitely promising.

-- The Journal of American Medical Association reported a study where 50 percent of patients with Lupus (SLE) treated with stem cells were disease-free five years after treatment.

-- The Journal of Rheumatology showed that 73 percent of individuals with rheumatoid arthritis were able to be controlled on medication after being treated with stem cells.

-- The journal Nature even reported the use of adult stem cells to repair vision of blind mice.

We will likely continue to see more results of clinical trials using adult stem cells to address other diseases such as diabetes, wound healing and multiple sclerosis, to name a few. If these techniques are successful, we would have much less need for donor organs; we would improve conditions that previously decreased someone's lifespan or quality of life, such as diabetes, blindness, Parkinson's, Alzheimer's; multiple sclerosis could be cured.

According to Dr. Guerra, clinical trials are already under way in the cardiovascular department:

"As far as treatments go, great advances are being made in improving cardiac status of those individuals with end-stage heart disease and repairing the damaged tissue of those having heart attacks," Dr. Guerra said. "Additionally, you do not have the potential issue of tumor formation which has been seen with embryonic cells," he added.

Now adults have the option to collect and save their own stem cells through a non-invasive and safe procedure, a bio-insurance for future use, and one that may just save your life.

Dr. Manny Alvarez is the managing editor of health news at Foxnews.com, and is a regular medical contributor on the FOX News Channel. He is chairman of the Department of Obstetrics and Gynecology and Reproductive Science at Hackensack University Medical Center in New Jersey. Additionally, Alvarez is Adjunct Professor of Obstetrics and Gynecology at New York University School of Medicine in New York City.

The Mission of the Stem for Life Foundation

You've already seen and read about the purpose of the Stem for Life Foundation. Now let's talk about the way in which we work together to accomplish the mission. We will achieve our objectives by the following methods:

- establishing and administering programs of collecting, processing and storing adult stem cells, and to provide the stem cells collected from the persons who originally provided them in the event of medical need.
- obtaining funding through charitable donations, grants and other means that will support the development and administration of programs to provide first responders and the chronically ill of indigent status in our country, the ability to take full advantage of the collection, processing, storage and use of their own adult stem cells without cost to them, as well as to the general public for a professional fee;
- supporting activities and further advancing the science of adult stem cell research;
- encouraging medical practitioners and others to study and learn about the collection, processing,

storage, use and benefits of adult stem cells to treat medical maladies;

- promoting activities which enhance the educational preparation and training of physicians at the medical undergraduate and graduate levels in respect of adult stem cells; and
- heightening public awareness and knowledge of the benefits and promise of utilizing adult stem cells to treat serious medical conditions and their role in regenerative medicine.

The Stem for Life Foundation is completely committed to providing the financial resources needed to secure the benefits of adult stem cells to those who are either (a) in greatest need based on their occupational hazards and who can receive the benefits based on exposures to hazardous materials, burns and illnesses related to their daily activities; and (b) unable to pay for the costs of advancing their quality of life.

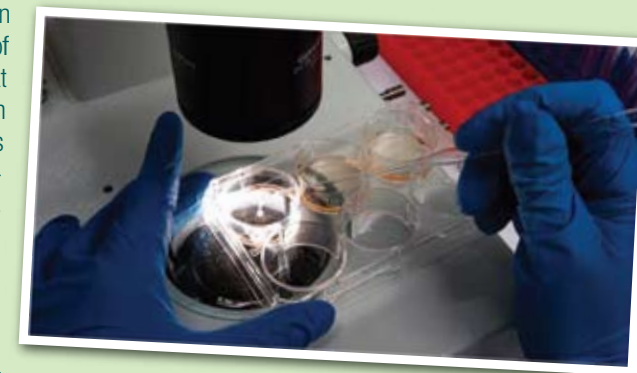
In the view of the Foundation, there can be no greater charitable purpose or activities than harnessing the power of medical advances for the benefit of those who can use our help the most.

Encourage Adult Stem Cell Research In Every Way

Advances published in November 2007 in the area of stem cell research hold great promise. The process described in studies published in the journals Science and Cell could revolutionize the way in which such work is pursued in the future.

Currently, research in the use of a technique called somatic cell nuclear transfer to produce patient-specific human embryonic stem cells holds great promise as well, both for understanding disease development and progression, and for organ and tissue replacement.

However, the effort to encourage research facilities and other entities to focus on furthering the research and progress already made in making adult stem cell harvesting and use available to those in need must continue. Please



contact your local, state and federal officials and ask them to support legislation that provides additional funding to hospitals, physicians and research laboratories to move our efforts further to the promise and healing properties of adult stem cells.

How Can I Be A Part of This Great Program?

The Stem for Life Foundation has a variety of ways for you to join our effort – from ways in which to provide information to harvest and bank your own adult stem cells, to helping us advance the charitable mission of the organization for the benefit of others.

Donate

The Foundation has ways to contribute for everyone; and every donation is greatly appreciated. One-time donations, pledges of donations that can be made over time, and endowments are all acceptable. Each dollar will get us closer to our goal of making this opportunity available for those whom the Foundation has identified to support.

A pledge card is enclosed along with this newsletter. You can also donate on-line at www.stemforlife.org.

Grants

The Foundation is interested in applying for all state and federal, as well as private charitable grants to advance our activities. If you are aware of any grants or sponsoring entities to whom we can apply, please pass the information along.

Spread the Word

You can also help by making information about the Foundation available to your family physician, first responders in your neighborhood, and other charitable organizations that will have members of their communities who may be helped by our mission.

Join Our Mission

If you are interested in taking on a more active role in your field of specialty, community or state, please let us know. Special Interest Groups are now being formed in the areas of medicine, sports, military, firefighting, emergency medical technicians and paramedics, governmental, and education. Your role can be one of a part of these special groups, or supporting the general effort. The decision is up to you. The question is whether you can afford to ignore this noble effort.

Life Lines

visit our website at www.stemforlife.org