

Donating cord blood to JP2SRI is a simple procedure.

- Contact JP2SRI at 319-688-7367. Parents will be sent a kit free of charge for collecting cord blood at the time of birth.
- In advance of the anticipated time of delivery parents make arrangements with their physician and hospital to collect the cord blood.
- The collected cord blood is sent by parents to JP2SRI by UPS to arrive within 48 hours after delivery.

"I encourage parents to donate their baby's cord blood for stem cell research. Your donation will help develop valuable therapies for a variety of diseases and conditions in an ethically acceptable way."

*Most Rev. Martin Amos
Diocese of Davenport, Iowa*

If you live within the Diocese of Davenport and have any questions about the cord blood to JP2SRI, contact the Diocese of Davenport Respect Life Coordinator Jeanne Wonio at 563-355-4188 or schweet@mchsi.com

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DONATING CORD BLOOD

For Ethical Stem Cell Research

www.jp2sri.org

John Paul II Stem Cell Research

Not all stem cell research is the same.

Often stem cell research is presented in a black-and-white fashion. One is either for it or against it. In fact, distinctions have to be made. The Catholic Church opposes *embryonic* stem cell research because it involves the destruction of human embryos, in other words, the destruction of early human life. The Church likewise opposes the creation of embryos specifically for stem cell research through *cloning (somatic cell nuclear transfer)*. However, usable stem cells can be obtained from other ethically legitimate sources. *Adult stem cells* are found among the tissues and organs of the human body. Stem cells can also be obtained from *amniotic fluid, the placenta and umbilical cord blood*. The Catholic Church supports the use of these stem cells in research and therapy.

The John Paul II Stem Cell Research Institute (JP2SRI) is a non-profit research institute located in Iowa City, Iowa whose mission is to advance research and education on stem cell research in a manner consistent with a pro-life bioethics. The Institute strictly focuses on adult and cord blood stem cell research and education. The Institute represents an opportunity for pro-life individuals to support ethically derived stem cell research consistent with pro-life values. JP2SRI does not conduct human embryonic stem cell research and does not perform therapeutic cloning or somatic cell nuclear transfer. JP2SRI has contributed to developing the most diverse supply of adult stem cells in the world.

JP2SRI was founded by Alan Moy, M.D. Dr. Moy is a physician-scientist whose previous academic appointment was at the University of Iowa College of Medicine and College of Engineering. He is also the founder and president of Cellular Engineering Technologies Inc., a biotechnology company located in Iowa which focuses on preclinical industrial applications in adult and umbilical cord stem cell research. Dr. Moy is currently a practicing physician in private practice and holds an Adjunct Associate Professor position in the College of Engineering at the University of Iowa.

Cord blood stem cells are both ethically acceptable and useful for stem cell research and therapy .

Hemopoetic stem cells (HSC) can be obtained from umbilical cord blood. HSC have already been a source of treatment for bone marrow transplantation to restore bone marrow cells after chemotherapy. 70 percent of bone marrow candidates cannot identify suitable immunological-matched donors. HSC represents a potential stem cell source for these bone marrow transplant candidates. Research using HSC is also being directed to treat chronic cardiovascular disease, peripheral vascular disease, multiple sclerosis, stroke, pulmonary hyper-tension and chronic lung disease.

Umbilical cord blood is also a source of human mesenchymal stem cells (HMSC). Under laboratory conditions HMSC have been shown to differentiate into a variety of different tissue types, including cartilage, bone, blood, cardiac, muscle and neural tissues.

HMSC have potential for treating chronic heart disease, chronic neuromuscular disorders, diabetes, Parkinson's disease and some autoimmune disorders.

In general, cord blood stem cells have advantages over embryonic stem cells. Tissues grown from embryonic stem cells can trigger immune rejection. An advantage of cord blood stem cells is that they are immunologically immature which minimizes the risk of tissue rejection so that patients do not have to take anti-rejection medications and risk infections. Further, embryonic stem cells can form tumors which is not true of cord blood stem cells.

JP2SRI conducts its own research projects as well as providing stem cells to other scientists. For more information about current work at JP2SRI, consult <http://www.jp2sri.org>

Donate cord blood to JP2SRI

Unless other arrangements are made, the umbilical cord and its blood are thrown away as "medical waste."

Don't miss this opportunity to promote ethical stem cell research!