

FREQUENTLY ASKED QUESTIONS

Questions that you might ask
as you explore the option of
umbilical cord blood stem
cell preservation



No.1 in stem cell technology

In technological collaboration with
CRYO-CELL International, Florida, USA

Stem Cells are the curing cells of the future

Stem cells are the primal cells of the body. The different cell types within the body are all derived from such cells- and hence the name. Stem cells have the unique ability to differentiate into a variety of cells. Characteristically, stem cells have a high capacity for self-renewal. When a stem cell divides, each new cell has the potential to either remain a stem cell or become another type of cell with a more specialized function - such as a muscle cell, a red blood cell or a nerve cell.

Stem cells can be derived from various sources such as the bone marrow, embryos obtained by in-vitro fertilization, amniotic fluid and umbilical cord blood. Umbilical Cord blood is the remaining blood in the newborn's umbilical cord and the placenta (the tissue, which during pregnancy nourishes the fetus) and is a rich source of stem cells. Cord blood is rich in stem cells - the master cells responsible for the production of all other cells in the body - that have the ability to differentiate into other cells in the body.

"In the last few decades investments in basic science research have yielded extensive knowledge on the characteristics and roles of stem cells, which has paved way for understanding their uniqueness. Currently, scientists have found that stem cells have the potential to cure life-threatening diseases" Dr Ajit Kumar, Chief Scientific Officer, LifeCell.

When a couple decides to bank their child's stem cells, they should plan a few weeks in advance to the expected delivery date. At the time of the child's birth, the cord blood is collected and taken to the cord blood stem cell bank for testing and processing to harvest stem cells. The stem cells are preserved cryogenically (at -196 deg celcius) for potential medical use in the future. Whenever the stem cells are required for therapy they can approach the bank.

Launched in November 2004, LifeCell is India's first & largest umbilical cord blood stem cell banking and stem solutions provider to bring the revolutionary medical breakthrough of umbilical cord blood stem cell banking to the country. LifeCell has a state-of-the-art Stem Cell Processing and Banking facility in Chennai. The company has a technology tie-up with CRYO-CELL International (CCI) USA, who have mastered the technology of stem cell banking over the last 18 years.

LifeCell is India's first and only stem cell banking company to receive the prestigious Accreditation from American Association of Blood Banks (AABB) and DSIR Accreditation from Govt. of India. It is notable that over 12,000 parents have banked their baby's cord blood stem cells with LifeCell.

The most frequent queries regarding stem cell technology, banking and collection process have been answered by experts in this FAQ .

For further enquiries please log on to www.lifecellinternational.com or e-mail us at contactus@lifecellinternational.com

Banking your child's stem cells is once-in-a-lifetime opportunity and parents must harness the power of stem cells...for their child, and their family.



LifeCell's Chennai Facility



TriCell Stem Cell Center
(LifeCell's Therapy Center)



Dr. Chirayu, Head, Laboratory Operations, LifeCell International.

