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UMBILICAL CORD BLOOD – NEW AGE MIRACLE FOR UNMET MEDICAL CONDITIONS

A wide array of major unmet medical needs faced by the world has found hope in stem cells. Stem cells therapy is that emerging branch in medicine which helps cure these diseases with their great therapeutic and biotechnological potential. Stem cells help to create living and functional cells to regenerate and repair tissue and organs in the body that are damaged due to age, disease and congenital defects.¹

In the last 10 years, Umbilical Cord Blood has been shown to be therapeutically useful for rescuing patients with bone marrow-related deficits and inborn errors of metabolism. Umbilical Cord Blood offers advantages over bone marrow because cord blood does not require perfect human leukocyte antigen (HLA) tissue matching, has less incidence of graft vs. host disease and may be used allogeneically (for others).^{2,3}

The first transplant using cord blood was performed in a 5-year old boy with Fanconi Anaemia, an inherited bone marrow failure syndrome which can only be cured by allogeneic Haematopoietic Stem Cell Transplant.⁴ The mother of the patient was pregnant with a girl child who was known, before birth, to be HLA-identical to her brother and not a carrier of the same genetic defect. The sister's cord blood was collected and cryopreserved at birth and transplanted to the patient. More than 26 years later, the patient is alive and well with a normal hematologic and immunological reconstitution provided by his donor cells.

More recently cord blood has also been used as a stem cell source for patients without a donor and more than 2000 Cord blood Haematopoietic Stem Cell Transplants are performed annually.⁵ To date, more than 35,000 patients worldwide have received an UCB transplant.⁶

With India's booming birth rate of 26 million births per year¹⁰ and genetic diversity; the country would be poised to be the largest collector of UCB in the world.

UCB banks are growing in support of the increase in utilization of this newest graft source with recent reports indicating that there are greater than 450,000 unrelated units banked worldwide for potential clinical use^{7,8}.

There are now nearly 142 public banks and at least an additional 25 private banks actively involved around the world in collecting, processing, testing and cryopreserving UCB for potential future use as therapeutics^{7,9}. At present there are at least three public and seven private cord blood banks in India.

Babycell, one of the best private banks, was established in 2009 as the first Indian biotechnology company to introduce cutting edge technology platform for regenerative medicine in India. It has achieved ISO 13485 in the very first year of operations and certified with GMP, GLP and GCP in its 2nd year of operations. Babycell has till date gained trust of thousands of people and successfully preserved the stem cells of more than 12000 families and is continuing to do so.

References:

1. Mark I. Weiss and Deryl L. Troyer, 2006. Stem Cells in the Umbilical Cord. Stem Cell Reviews; 2(2) :155-16. /http://www.a4m.com/fellowship-stem-cell-overview-what-is-stem-cell-therapy.html
2. Kurtzberg J, Lyerly AD, Sugarman J, 2005. Untying the Gordian knot: policies, practices, and ethical issues related to banking of umbilical cord blood. J Clin Invest. ;115(10):2592-7.
3. Laughlin MJ, Barker J, Bambach B, Koc ON, et al., 2001. Hematopoietic engraftment and survival in adult recipients of umbilical-cord blood from unrelated donors. N Engl J Med. ; 344(24):1815-22
4. Gluckman E, Broxmeyer HA, Auerbach AD, Friedman HS, Douglas GW, Devergie A, et al. (1989) Hematopoietic reconstitution in a patient with Fanconi's anemia by means of umbilical-cord blood from an HLA-identical sibling. N Engl J Med 321(17):1174-8
5. Ref: http://www.who.int/transplantation/en/
6. Ref: http://www.nationalcordbloodprogram.org/
7. http://www.worldmarrow.org/fileadmin/WorkingGroups_Subcommittees/Cord_Blood_Working_Group/Cord_Blood_Banks_Worldwide_13042010.pdf, accessed on September 12, 2010.
8. Sacchi N, Costeas P, Hartwell L, Hurley CK, Raffoux CG, Burns LJ, Rosenmayr A, et al; Quality Assurance and Clinical Working Groups of the World Marrow Donor Association. Hematopoietic stem cell donor registries: World Marrow Donor Association recommendations for evaluation of donor health. Bone Marrow Transplant 2008;42: 9-14.
9. Cord blood Registry. Why you should save cord blood for your family. Available from: http://www.cordblood.com/cord_blood_banking_with_cbr/banking/diseases_treated.asp?fbid=BlyS_OAIG4n, accessed on April 13, 2010.
10. http://www.savethechildren.in/87-news-releases/130-child-mortality-in-india.html, accessed on August 18, 2011.



Motherhood is a promise of new life and new hope.
This Mother's day make a new promise to
protect your child forever by preserving their Stem Cells.

Babycell wishes all a

Happy Mother's Day!

Let the cord of love be connected forever with Babycell.

CLIENT TESTIMONIAL

"We have banked our baby's stem cells with Babycell – considering nothing but the best for my little girl! We hope that we never see the time when we need to use our stored cord blood cells, but we are rest assured knowing that it is stored with Babycell. Babycell's processing technology is superior to any other banks and the value added services like CFU, HLA Typing and personalized ANC/PNC are second to none. Thanks Babycell!!"

– Mr. & Mrs. Bhanushali



EVENTS

Mummy & Tummy Sessions with would-be mother's in various cities like Indore, Mumbai.



Indore



Indore



Mumbai

OFFER OF THE MONTH

This Mother's day gift your child the best of everything with great offers from us.

Fresh Summer Arrivals!

Shop from over a range of Kurtas, Tummy Hug, Maternity Lingerie and more for mummies to Jhablas, Dresses, T-shirts & a lot more for babies this summer...!

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on purchase of Moms' Apparel worth ₹2000

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