

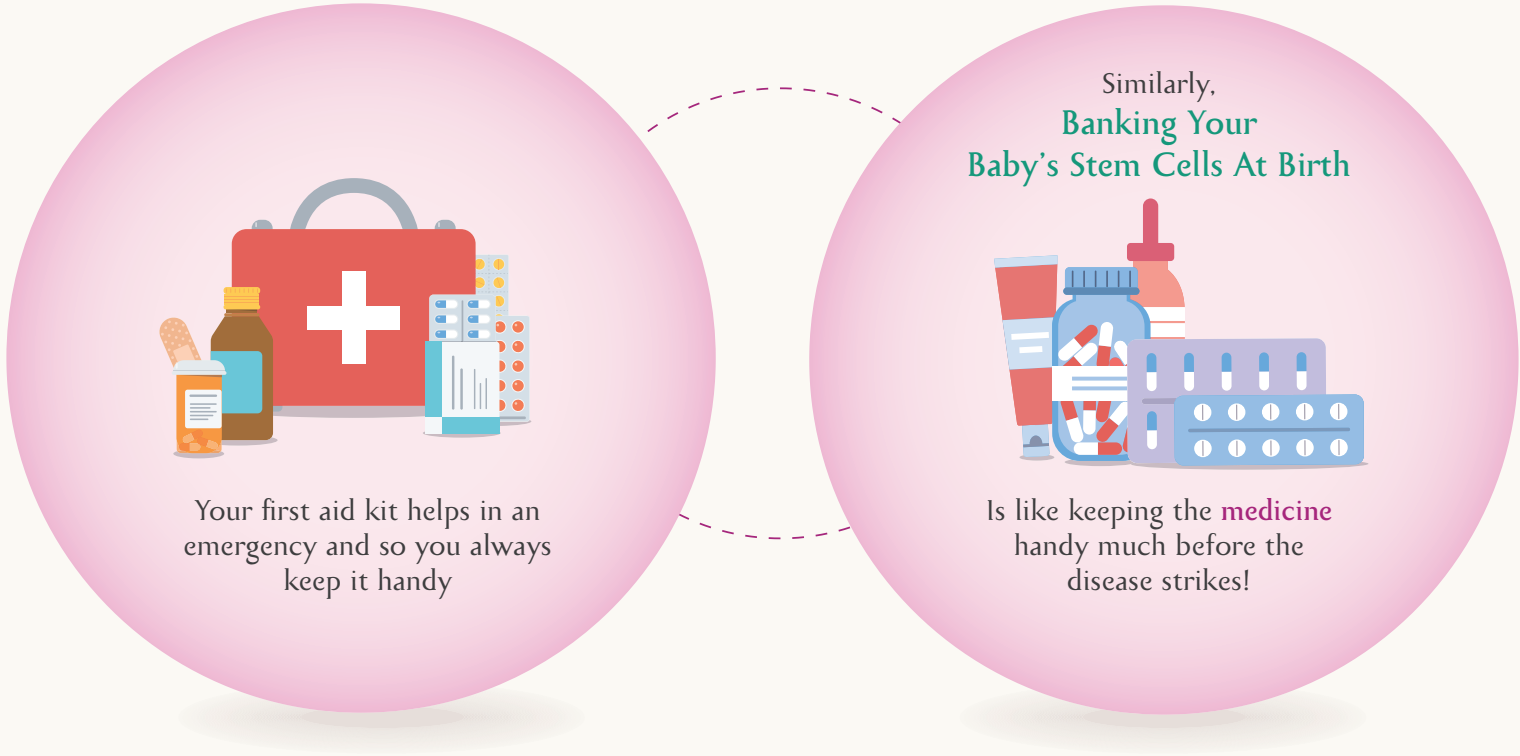
lifecell.in



Preserve Your Baby's Cord Blood At Birth &
Get Lifetime Access To India's Largest Bank Of Stem Cells

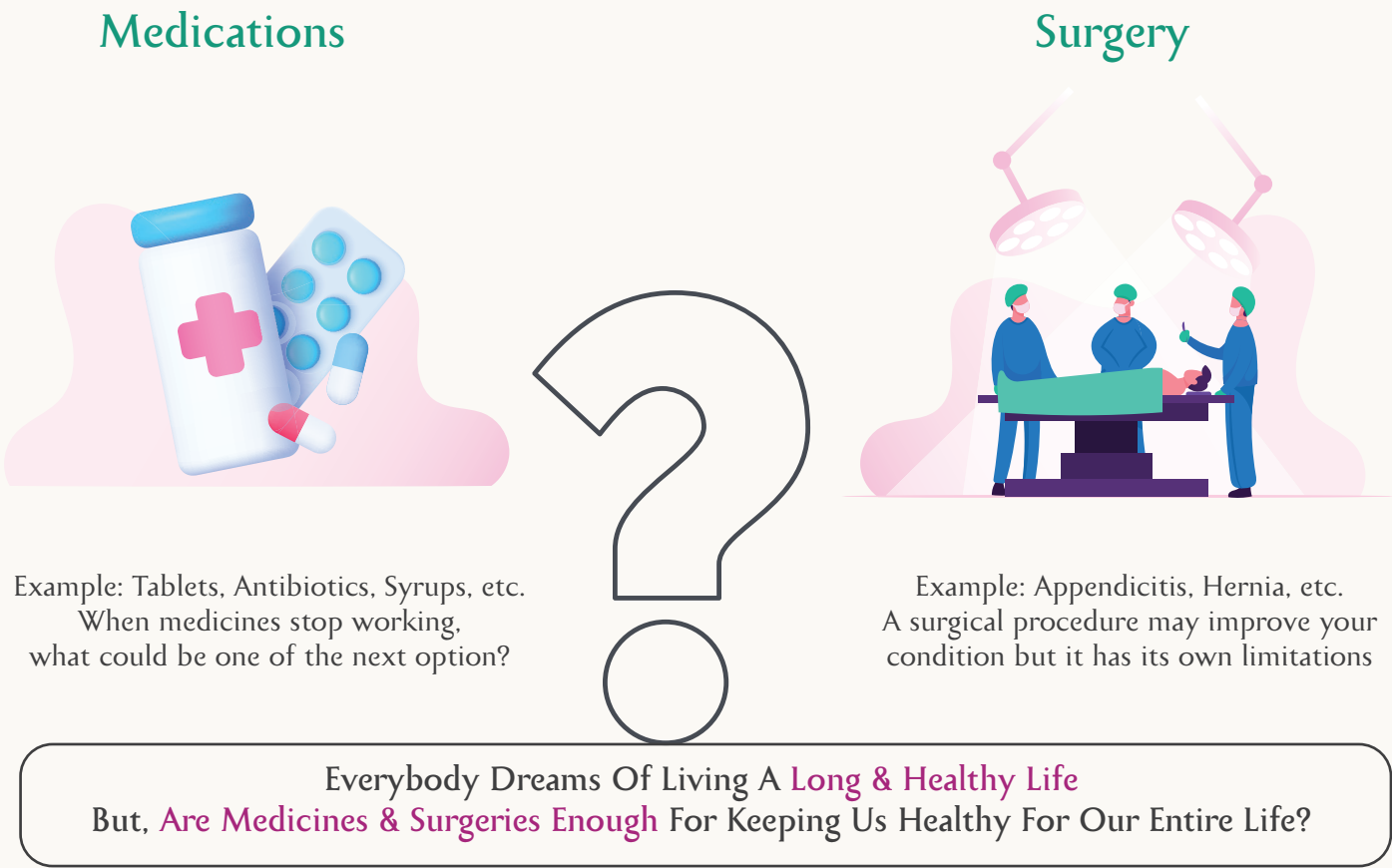
Choose LifeCell, Choose Hope!

Health Equals Your Most Precious Asset



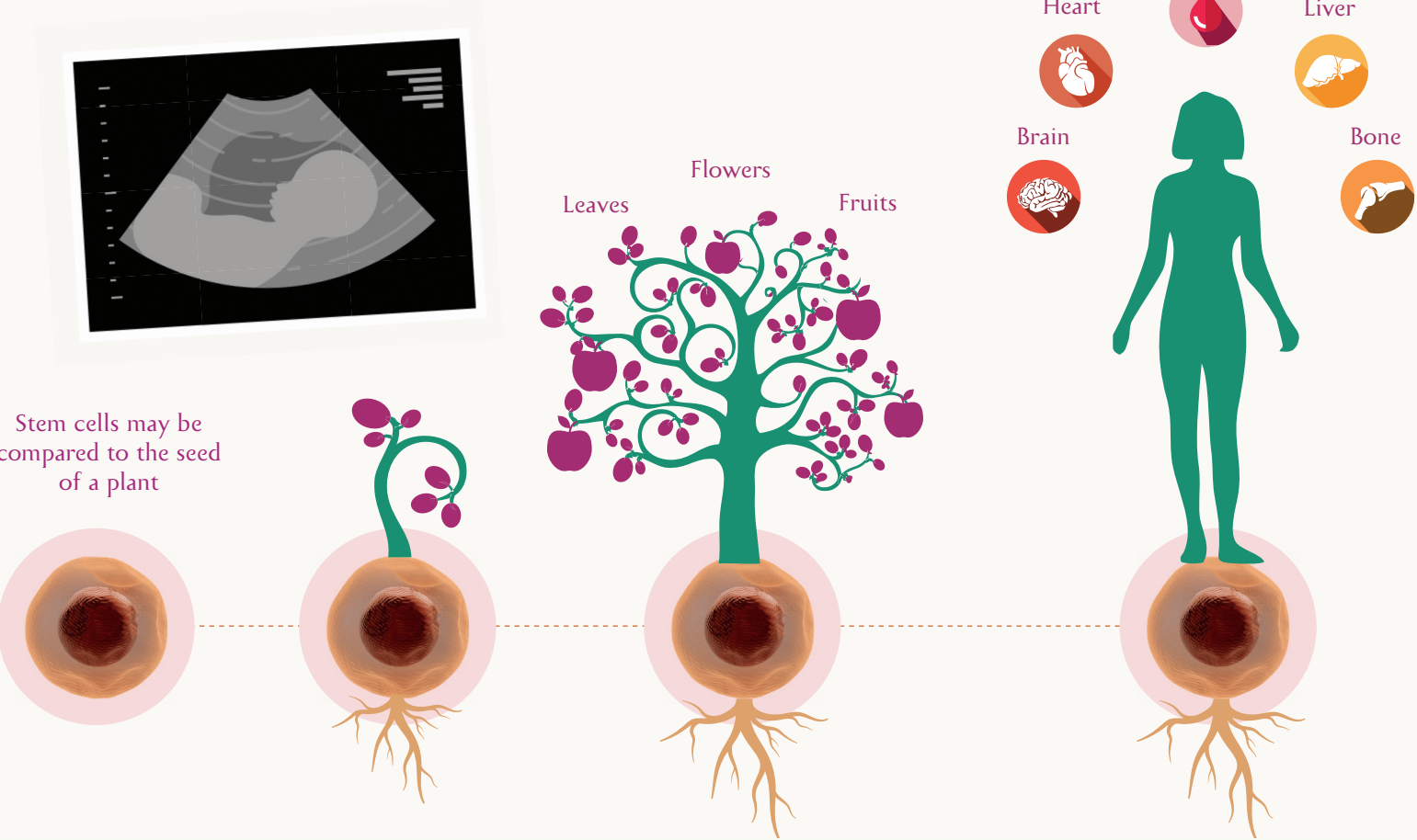
We Didn't Had This Opportunity At Birth,
But Your Baby Has It.. Only At Birth!

Wellness Is Better Than Illness



What Are Stem Cells?

The **first ultrasound** is special for all expectant parents! The confirmation coupled with understanding if you're having one baby, twins, or more brings joy to life. It's fascinating to witness the transformation of those tiny little cells to an entire baby in 9 months. Just like how the **seed of a plant** gives rise to roots, stem, branches, leaves, flowers and fruits, these special cells called **stem cells** have the potential to develop into specialised cells of our body such as blood, muscles, bones, brain, etc.



History of Stem Cell Use

For over **65 years**, over **15 lakh** blood stem cell transplants have been done across the world. **India's first** successful bone marrow transplantation (BMT) was done in **1983** at **Tata Memorial Hospital, Mumbai**.



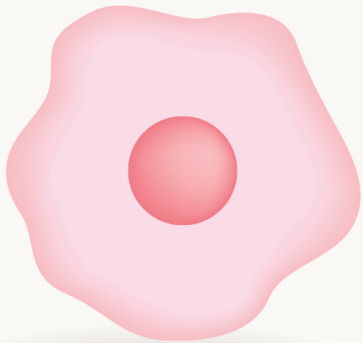
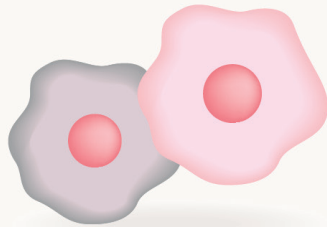
How Do Stem Cells Work?



Who Will Heal Faster?

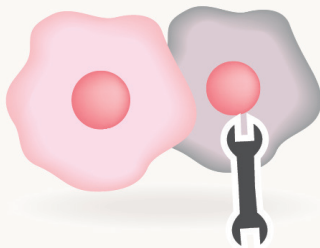
Stem Cells Help
Restore Body's Normal Functions

REPLACE
the damaged cells



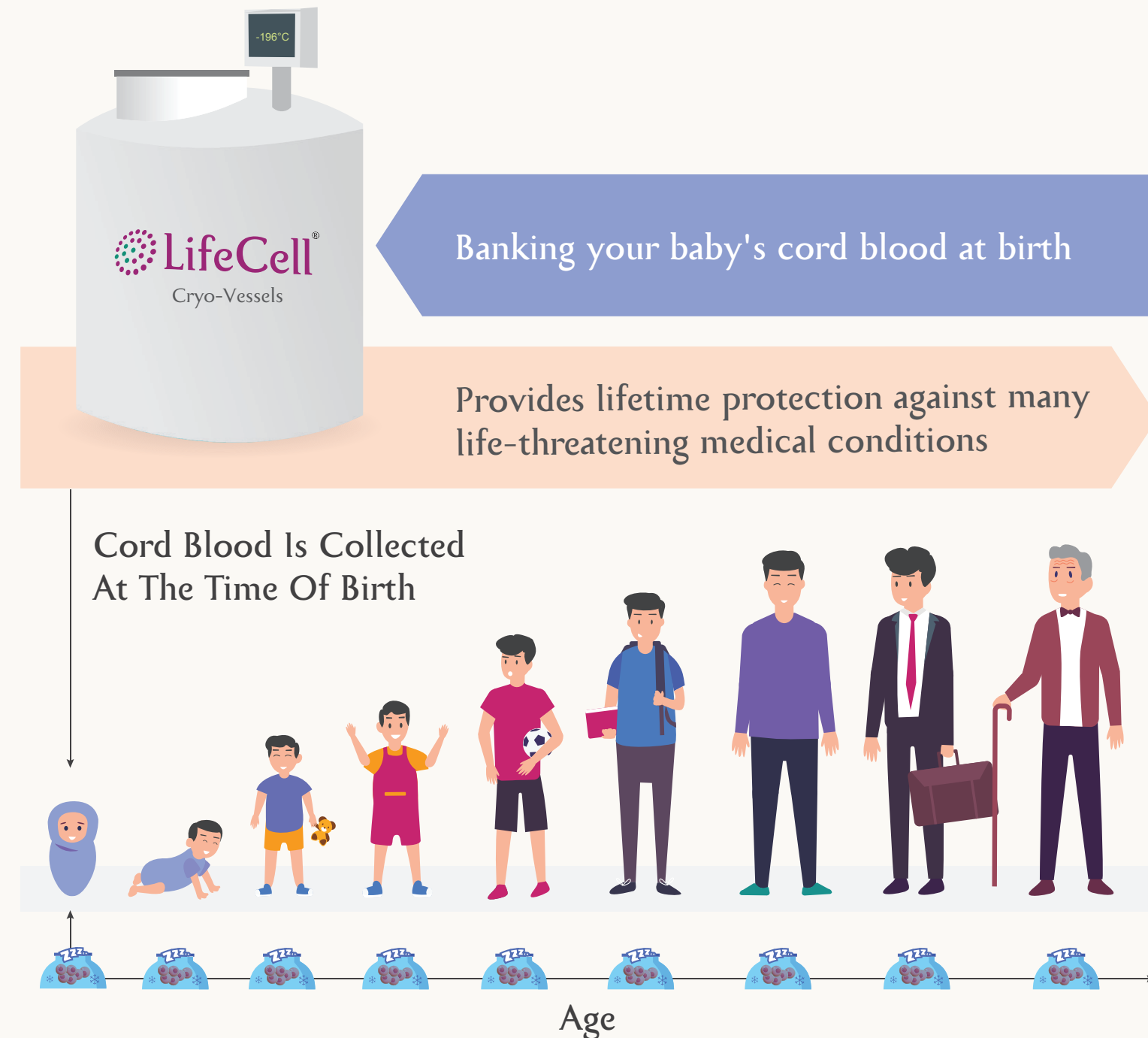
STEM CELL

REPAIR
the affected parts



Why Cryopreserve Cord Blood Stem Cells?

Tiny cells with life-saving potential



Potential Of Stem Cells In Modern Medicine



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Time-Tested	Total Transplantations	Annual Transplantations	Approved	Promising Future
65+	15 Lakh+	90,000	90+	700+
Years	And Counting...	Every Year	Blood Conditions	Human Clinical Trials

What Is The Probability Of Being Diagnosed Of A Condition Treatable By Blood Stem Cells?



1 in 217 will undergo blood stem cell transplantation by the age of 70 years

"Banking your baby's stem cells at birth provides lifetime protection against many life-threatening medical conditions."



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The Application Of Blood Stem Cells In Medicine

What's Now

Today, hematopoietic stem cells are used in the treatment of over 90+ blood disorders including

Blood Disorders

- Acute Myelofibrosis
- Agnogenic Myeloid Metaplasia (Myelofibrosis)
- Amyloidosis GS
- Aplastic Anemia (Severe)
- Beta Thalassemia Major GS
- Blackfan-Diamond Anemia GS
- Congenital Amegakaryocytic Thrombocytopenia (CAT) GS
- Congenital Cytopenia GS
- Congenital Dyserythropoietic Anemia GS
- Dyskeratosis Congenita GS
- Essential Thrombocythemia
- Fanconi Anemia GS
- Glanzmann's Thrombasthenia
- Myelodysplastic Syndrome GS
- Paroxysmal Nocturnal Hemoglobinuria (PNH)
- Polycythemia Vera
- Pure Red Cell Aplasia
- Refractory Anemia with Excess Blasts (RAEB)
- Refractory Anemia with Excess Blasts in Transition (RAEB-T)
- Refractory Anemia with Ringed Sideroblasts (RARS) GS
- Shwachman-Diamond Syndrome GS
- Sickle Cell Disease

Blood Cancers

- Acute Biphenotypic Leukemia
- Acute Lymphocytic Leukemia (ALL)
- Acute Myelogenous Leukemia (AML)
- Acute Undifferentiated Leukemia
- Adult T Cell Leukemia/Lymphoma
- Chronic Active Epstein Barr
- Chronic Lymphocytic Leukemia (CLL)
- Chronic Myelogenous Leukemia (CML)
- Ewing's Sarcoma OWN
- Hodgkin's Lymphoma OWN
- Juvenile Chronic Myelogenous Leukemia (JCML)
- Juvenile Myelomonocytic Leukemia (JMML) GS
- Myeloid/Natural Killer (NK) Cell PrecursorAcute Leukemia
- Medulloblastoma OWN GS
- Non-Hodgkin's Lymphoma
- Prolymphocytic Leukemia
- Plasma Cell Leukemia OWN
- Chronic Myelomonocytic Leukemia (CMML)
- Leukocyte Adhesion Deficiency
- Multiple Myeloma OWN
- Neuroblastoma OWN
- Rhabdomyosarcoma
- Retinoblastoma OWN GS
- Thymoma (Thymic Carcinoma)
- Waldenstrom's Macroglobulinemia OWN
- Wilms Tumor GS



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Immune Disorders

- Adenosine Deaminase Deficiency (ADD) GS
- Bare Lymphocyte Syndrome (BLS)
- Chediak-Higashi Syndrome (CHS) GS
- Chronic Granulomatous Disease GS
- Congenital Neutropenia GS
- DiGeorge Syndrome GS
- Evans Syndrome
- Fucosidosis GS
- Hemophagocytic Lymphohistiocytosis (HLH) GS
- Hemophagocytosis Langerhans' Cell Histiocytosis (Histiocytosis X)
- IKK Gamma Deficiency (NEMO Deficiency)
- Immune Dysregulation, Polyendocrinopathy, Enteropathy, X-linked (IPEX) Syndrome GS
- Kostmann Syndrome (SCID)
- Myelokathexis
- Omenn Syndrome (SCID) GS
- Phosphorylase Deficiency(SCID) GS
- Purine Nucleoside (SCID)
- Reticular Dysgenesis (SCID)
- Severe Combined Immunodeficiency Diseases (SCID) GS
- Thymic Dysplasia
- Wiskott-Aldrich Syndrome GS
- X-linked Agammaglobulinemia GS
- X-Linked Lymphoproliferative Disorder GS
- X-Linked Hyper IgM Syndrome GS

Did You Know?

49 Blood Medical Conditions That May Be Treated Using Hematopoeitic Stem Cell Transplantation Can Be Detected In LifeCell's Genome-Scope Test

Metabolic Disorders

- Congenital Erythropoietic Porphyria (Gunther Disease) GS
- Gaucher Disease GS
- Hunter Syndrome (MPS-II) GS
- Hurler Syndrome (MPS-IH) GS
- Krabbe Disease GS
- Lesch-Nyhan Syndrome GS
- Mannosidosis GS
- Maroteaux-Lamy Syndrome (MPS-VI) GS
- Metachromatic Leukodystrophy GS
- Mucopolidosis II (I-cell Disease) GS
- Neuronal Ceroid Lipofuscinosis (Batten Disease) GS
- Niemann-Pick Disease GS
- Sandhoff Disease GS
- Sanfilippo Syndrome (MPS-III) GS
- Scheie Syndrome (MPS-IS) GS
- Sly Syndrome (MPS-VII) GS
- Tay Sachs GS
- Wolman Disease GS
- X-Linked Adrenoleukodystrophy GS

OWN Conditions that require patient's own stem cells for treatment (Autologous)

The rest of the conditions listed need stem cells from a matching donor for treatment (Allogeneic)

Data extracted from National Guidelines for HCT (India), American Society for Blood & Marrow Transplantation (ASBMT) and Parents Guide to Cord Blood Foundation (USA)

GS Diseases That Can Be Detected In LifeCell's Genome-Scope Test



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Increasing Need For Blood Stem Cell Transplants In India



High Burden
Of Blood Disorders



Huge Demand & Supply Gap
Due To Lack Of Awareness



Transplantation Costs

The growing burden of blood cancer in India: How awareness and early detection can save lives

etimes.in / Sep 20, 2024, 22:30 IST



Every 5 minutes someone in India is diagnosed with blood cancer or a blood disorder: Patrick Paul, CEO, DKMS BMST Foundation India

Due to the advanced medical technologies and increased research, life-threatening diseases such as blood cancer can be treated through stem cell transplants, Patrick Paul told Financial Express.com.

Written by [Sushmita Panda](#)

July 10, 2022 18:29 IST



Lack of awareness about blood stem cell donation is one of the leading causes for low number of donors in India: Dr. Dinesh Bhurani

The NPRD as a policy that advocates affordable and accessible healthcare and has the potential to lead to the creation of a conducive healthcare ecosystem whereby multi-sectoral partnerships can collaboratively work towards reduction in the lag between policy and practice often seen otherwise, thereby leading people to live healthier and fuller lives.



Shahid Akhter • ETHHealthWorld
Updated On Oct 3, 2021 at 12:17 AM IST

Stanford professor dies after year-long search for bone marrow donors fails

Jyoti Shelar



After a year-long, worldwide campaign by her students, friends and family to find a bone marrow donor for her, Nalini Ambady, a Stanford professor of Indian origin, succumbed to leukaemia on Monday.

As many as 13 matching donors for the 54-year-old professor had been found in the global search by her near and dear ones. While 6 were only half matches, rest of them ultimately refused to donate.

Is leukemia hereditary?

[Genetics and leukemia](#) | [Risk factors](#) | [Prevention tips](#) | [FAQs](#) | [Summary](#)

Leukemia does not tend to run in families and therefore is not usually hereditary.

Blood Cancer Treatment: Not Just Chemotherapy, Blood Stem Cell Transplant Can Potentially Treat Blood Cancer

Bollywood actor Rishi Kapoor loses battle against leukemia: Here's an explainer on the cancer

India in desperate need of a Public cord blood bank

by **INDIA CSR** — January 30, 2017

If we procure and maintain a supply of stem cells, BMT costs are likely to drop: Dr. Prasad Narayanan

Although the cost of transplant has dropped drastically in the past decade or so, we should be able to think of ways to make it even more affordable. The reason why transplant continues to be expensive is due to the lack of availability or accessibility. So, with increased access the cost is likely to drop.

Blood Stem Cell Transplant Facilities In India

Today, stem cell transplantations are performed in over 100 hospitals in India.

Agra

- Pushpanjali Hospital

Ahmedabad

- Apollo Hospital
- The Gujarat Cancer & Research Institute
- Vedanta Institute of Medical Science
- Zydus Hospital
- Marengo CIMS

Aurangabad

- Kamalnayan Bajaj Hospital
- Ujwal Hospital

Bengaluru

- Narayana Hrudayala Multispeciality, Hospital
- MS Ramaiah Memorial Hospital
- HCG Hospital
- Manipal Hospital Yeshwantpur
- St.John's Medical College & Hospital
- Command Hospital
- BGS Gleneagles Hospital

Chennai

- Global Hospital
- Apollo Specialty Cancer Hospital
- Adyar Cancer Institute
- Sri Ramachandra Medical Centre
- Fortis Malar Hospital
- Gleneagles Global Health City

Coimbatore

- Kovai Medical Centre and Hospital
- G Kuppusamy Naidu Memorial Hospital

Chandigarh

- Postgraduate Institute of Medical Education & Research
- Fortis Hospital Mohali

Gurugram

- Fortis Memorial Research Institute
- Artemis Hospital
- Medanta - The Medicity Hospital

Hyderabad

- Hematology BMT Institute International (HBII)
- Yashoda Hospital

- American Oncology Institute
- KIMS Hospitals

Indore

- CHL - CBCC Cancer Center

Jaipur

- Birla Cancer Centre
- Sawai Man Singh Medical College & Hospital
- Manipal Hospital

Kerala

- Baby Memorial Hospital
- Believers Church Medical College Hospital
- Aster Hospital
- Amritha Institute of Medical Sciences
- Malabar Cancer Centre

Kolkata

- Tata Medical Centre
- Narayana Superspeciality Hospital, Howrah
- Nil Ratan Sircar Medical College and Hospital
- Institute of Haematology & Transfusion Medicine Medical College
- Saroj Gupta Cancer Center & Research Institute (SGCC & RI)
- Apollo Gleneagles Hospital

Ludhiana

- Christian Medical College and Hospital
- American Oncology Institute at DMCH

Lucknow

- Apollomedics Super Speciality Hospital

Mumbai

- Tata Memorial Centre
- NH SRCC Children's Hospital
- HCG Cancer Hospital
- Nanavati Hospital
- Kokilaben Dhirubhai Ambani Hospital
- L H Hiranandani Hospital
- Jaslok Hospital and Research Center
- INHS Asvini
- Prince Aly Khan Hospital
- P. D. Hinduja National Hospital
- Kokilaben Dhirubhai Ambani Hospital

Madurai

- Meenakshi Mission Hospital & Research Center

New Delhi

- Army Hospital Research & Referral
- Dr. B.R.A. Institute Rotary Cancer Hospital
- Dr. B. L. Kapur Memorial Hospital
- Rajiv Gandhi Cancer Center
- All India Institute of Medical Sciences
- Max Super Speciality Hospital
- Indraprastha Apollo Hospital
- Sir Ganga Ram Hospital
- Dharamshila Narayana Superspeciality Hospital

Nashik

- Lotus Institute of Haematology & Oncology

Nagpur

- HCG NCHRI - Cancer Care Centre
- Kingsway Hospital
- Central India Institute of Haematology & Oncology
- National Cancer Institute (NCI), Jamtha

Odisha

- S.C.B. Medical College and Hospital
- Institute of Medical Sciences and SUM Hospital

Surat

- Surat Hematology Centre (SHC)

Trichy

- Kauvery Hospital

Pune

- Jehangir Hospital
- Sahyadri Speciality Hospital
- Armed Forces Medical College (AFMC)
- Command Hospital
- Ruby Hall Clinic

Vellore

- Christian Medical College

Vadodara

- Zydus Hospital
- Sterling Hospital
- Bhailal Amin General Hospital (BAGH)

Where Are These Blood Stem Cells Found?

Blood stem cells can be retrieved from the umbilical cord blood, peripheral blood and bone marrow.

Umbilical Cord Blood

Amongst these sources, umbilical cord blood is considered to be a ready source of stem cells. It can be preserved at birth and used for treatments when required. Stem cells extracted from cord blood are used in the treatment of blood related medical conditions such as Beta Thalassemia Major, Leukemia, Lymphoma, Neuroblastoma, Sickle Cell Disease, Aplastic Anemia and so on.

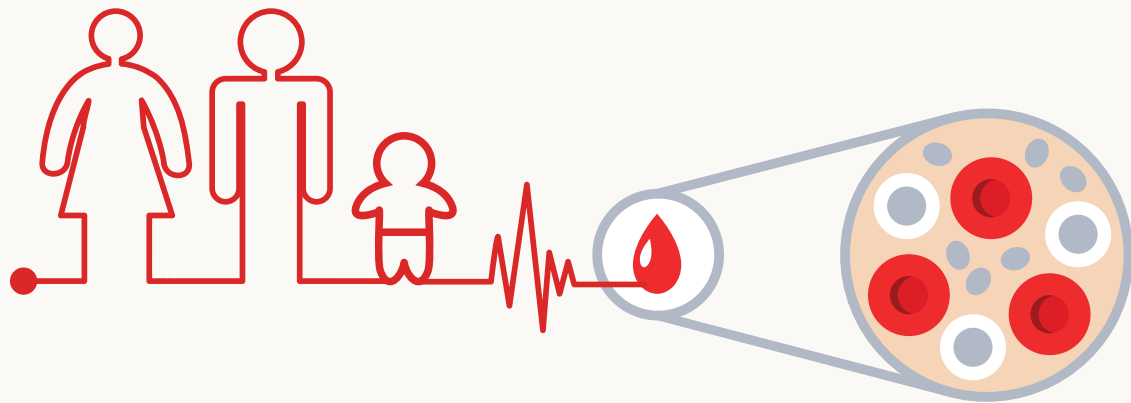


Cord blood stem cells have been used for over 35 years in more than 50,000 transplantations across the world.



TO KNOW MORE SCAN ME

Why Do We Need Blood Stem Cells From A Donor?



“

The Probability Of Baby Using Its OWN Cord Blood Stem Cells During Entire Lifetime Is $\leq 0.04\%$
American Society for Transplantation and Cellular Therapy (ASTCT)

”

Majority (>90%) of the blood related medical conditions would require stem cells from a healthy matched donor for treatment as our own stem cells contain the same defect (root cause of the problem) that causes the disease, hence they cannot be used for treatment. Umbilical cord blood stem cell transplantation matching (also known as HLA typing) requires 6-8 parameters to be common between a patient and the donor. Comparatively, the odds of finding a stem cell match is significantly lesser than finding a matched blood unit for transfusion.



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How To Find Matching Donor Cord Blood Stem Cells?

HLA typing is used to find a matched donor for stem cell transplantation.

What is HLA?

Human Leukocyte Antigen are special proteins that form HLA markers. These markers help the immune system identify which cells belong to you. The most successful transplants happens when the patient's HLA and donor's HLA closely match.

HLA Matching

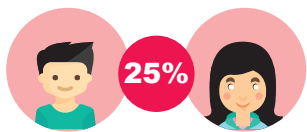
- A test similar to a **blood grouping** test but much more complex
- 6 out of 8 HLA match (~75%) between the patient & the donor is sufficient for cord blood stem cell transplant



Challenges Of Finding A Matching Donor In Our Own Family



Parents are only 50% match to their baby's HLA



Siblings have only a 25% chance of being a full match.



Unfortunately, 70% of Indian Patients DO NOT find a match in their own family.



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Challenges Of Finding Matched Donor Outside Our Family



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Criteria	Public Cord Blood Banks	Bone Marrow Registry	LifeCell's Community Banking Registry
Accessibility	 OPEN ACCESS To any matched cord blood units	 OPEN ACCESS To any matched volunteer donor listed in Registry	 EXCLUSIVE ACCESS Only to LifeCell Community Banking Clients
Registry Size	 LOW INVENTORY India: Not available Global: 8 lakhs	 LOW INVENTORY India : 6 lakh Global : 4 crores	 LARGEST INVENTORY 85,000+ Qualified, consented & ready-to-use
Probability of Finding Matched Donor	 NEGLECTIBLE India: Not applicable Global: <10%	 NEGLECTIBLE India : 1 in 20,000 or 10 lakh Global : <16%	 BEST CHANCES >97%
Availability	 IMMEDIATE Only if a matched unit is available	 DENIED OR DELAYED India: >60% adult volunteers back out during transplantation	 IMMEDIATE & GUARANTEED Within 7 days
Cost of Each & Every Sample Procurement	 EXPENSIVE >₹ 30 lakhs	 EXPENSIVE India : >₹ 10 lakhs Global : >₹ 30 lakhs	 FREE OF COST Unlimited samples at no extra cost
Financial Assistance for Stem Cell Transplantation	 NO HELP No financial aid	 NO HELP No financial aid	 ₹ 20 lakhs For Baby, Siblings and Parents for Every Cord Blood & Bone Marrow Stem Cell Transplantation for the Initial 21 years

How many transplants of cord blood in India?

Although several cord blood banks in India are licensed to conduct public banking, our research finds that for several years there have been **virtually no cord blood transplants in India from public banks**. The only banks providing donor (allogeneic) cord blood transplants in India right now are Community Banks.

6 in 10 stem cell donors back out after match found: Experts

High costs deter patients from going for bone marrow transplant



Community Cord Blood Banking Saved My Life



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India's First Double Cord Blood Transplant

Survivor Batul (Ahmednagar)
Met Her Cord Blood Donors
Divsha (Hyderabad) & Advik (Delhi)

Transplant Date: 15th October 2020
Location: Lotus Hospital, Nashik, Maharashtra
Physician: Dr. Pritesh Junagade



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What Is LifeCell's Community Banking?

It works on the concept of sharing preserved stem cells exclusively amongst its community members to find matching donor stem cells. This provides protection to the baby and all the immediate family members against all medical conditions treatable by blood stem cells.

- Parents preserve baby's cord blood stem cells with LifeCell and join the community stem cell bank.
- Qualified cord blood stem cells units collectively become part of a common pool that is shared only between the community members. As the community pool grows with addition of more samples, it will give families the best chance of finding a matching donor stem cells from this pool.
- The preserved cord blood stem cells in this common pool can be accessed by the baby, siblings, parents and maternal & paternal grandparents.
- The parents hold exclusive ownership rights of the baby's cord blood stem cells for the first 2 years in case the baby requires its own cord blood to treat any medical condition arising due to developmental delays.
- This Program helps safeguard against over 90 blood-related medical conditions that can be treated using both an individual's own stem cells and donor stem cells (as applicable).
- Community Banking is a cost effective way to support the public health need for unrelated umbilical cord blood transplants in India.
- Not only does Community Banking solve the challenges of low inventory and high costs of the public banking model, it is also a more sustainable business model compared to public banks.



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Celebrating
the Largest Inventory of
Indian Origin Stem Cells with

**85,000+ QUALIFIED
CORD BLOOD UNITS**

**>97% chances of finding matching
cord blood unit**

- Current LifeCell Registry Size: **85,000+** Qualified & Consented Cord Blood Units
- An ICMR study suggested that a bank with over **50,000** cord blood units available for allogeneic (donor) use provides **97%** chances of finding matching unit for an Indian patient
- LifeCell's Community Stem Cell Bank has an exponentially growing cord blood inventory to offer best match rate in the coming years

**The Choice Is Simple
Choose Power Of Plenty With
LifeCell**

Exclusive Benefits For LifeCell Community Banking Members



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Safeguards baby against medical conditions that can be treated using blood stem cells (own & donor).



Protection to the baby's **siblings, parents and grandparents** (maternal & paternal) by providing unrelated donor stem cells



Retrieving samples from the LifeCell Registry **is free**. There are **no restrictions & no cost** on the number of matching samples retrievable.



Best probability of **finding matched donor stem cells**



Exclusive access to LifeCell Registry; **World's Largest Inventory** of Indian Origin cord blood units



India's Only Stem Cell Bank Offering **Dual Site Facility**



Disaster Relief of INR 20 lakhs for **every stem cell transplantation**



Financial Assistance of INR 20 lakhs for **every stem cell transplantation** for baby, siblings & parents for initial 21 yrs



Coverage for **Bone Marrow and Peripheral Blood Stem Cell Transplantation** of INR 20 lakhs for every transplantation for baby, siblings & parents for initial 21 yrs



Quality Guarantee of INR 20 lakhs for **every stem cell transplantation** in case of quality failure



Continued Protection Against Rejection of stem cells for the entire family even if baby's cord blood is of low volume / unfit for processing / storage



Full Money Refund (except sample collection charges) with continued benefits for family **till baby's 75 yrs of age**[^]



Free CFU Assay on the umbilical cord blood stem cells



Free of cost genetic testing on samples for every stem cell transplantation (**'Safe Transplantation Programme'**)



Free Allografts (LifeCell's Wound Care Product): Get 2 (two) Allografts (of any available size / form as requested in writing by the patient's treating physician) for the baby, siblings & parents for initial 21 yrs

[^]Note: For more information kindly refer our latest Client Agreement.

LifeCell's StemMatch Is The Ultimate Matchmaker: ICMR's Prediction From 2014 Comes True!

Back in 2014, the Indian Council of Medical Research (ICMR) came up with an insightful prediction highlighting the likelihood of an Indian patient finding an unrelated HLA match for a stem cell transplant. Their prediction, published in the renowned journal Lancet Haematology, was backed by strong data and a team of prominent scientists from different parts of the world. **LifeCell's Registry** boasts **75,000+** high quality, qualified and consented cord blood units, assuring **>97%** chance of finding suitable match, perfectly aligning with ICMR's prediction.

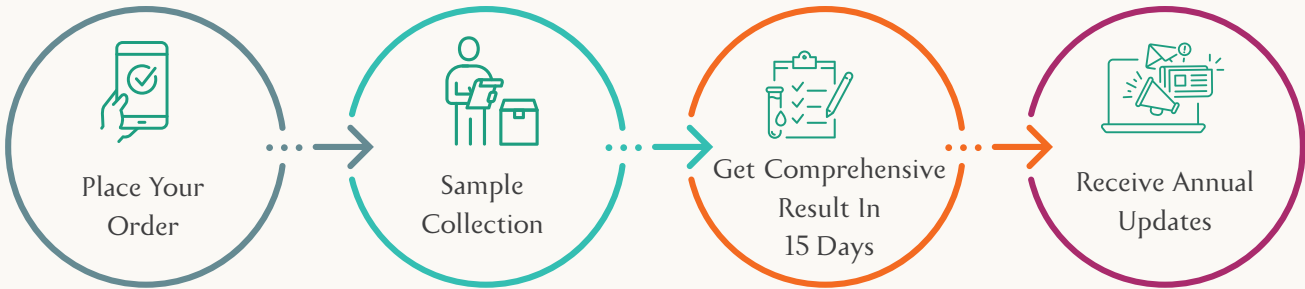


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This awareness provides mental peace, prepares an individual for an uncertain future and helps them take quick & actionable steps in testing times.

Quick & Easy Steps to Know Your Perfect Stem Cell Match



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Discovering The Power Of Many

LifeCell believes in winning Client's trust through data & transparency, and we wanted to share it with you.

Did You Know?

ICMR's Research Paper's Co-Author Dr. Sandip Shah also Believes In LifeCell's Community Banking Model for Indians

**StemMatch:
Annual Status Report**

LifeCell International Pvt. Ltd.
#26, Vandahur-Kelambakkam Main Road
Keelakottaiyur, Chennai - 600127
www.lifeCell.in

ANNEXURE I

Patient Details	Specimen Details
Name : [REDACTED]	Report Date : [REDACTED]
CRM : [REDACTED]	Specimen : Cord Blood
Gender : [REDACTED]	Test : HLA Matching
DOB : [REDACTED]	Lab ID : [REDACTED]

StemMatch provides instant information on the exact number of matching cord blood units available for you in the LifeCell Registry.

What's Tested

Our immune system uses certain markers to recognize which cells belong in your body and which do not. Scientifically these markers are known as HLA or Human Leukocyte Antigens. LifeCell StemMatch or HLA typing is a way to tell how closely the tissues of one person match the tissues of another person. This is vital in blood stem cell transplants to know, as better the match between the transplant recipient and their donor, better are the transplant outcomes.

A) Current Result Summary

Your matching score is based on the search of qualified and consented cord blood units stored in LifeCell's Registry as on the date of report. As the registry size increases, so does the probability of finding a closely matched donor. Cord blood transplants luckily don't require to be perfectly matched to progress with a transplant as generally acceptable even if 6 out of the 8 genomic locations match. Thus the odds of finding a donor is significantly better using a cord blood unit rather than an adult donor where only a perfect match is required.

70661 Searched Units On 15th Jul'25	43 Donors Perfect!! 8/8 Match	90 Donors Good! 7/8 Match	263 Donors Acceptable, 6/8 Match
--	----------------------------------	------------------------------	-------------------------------------

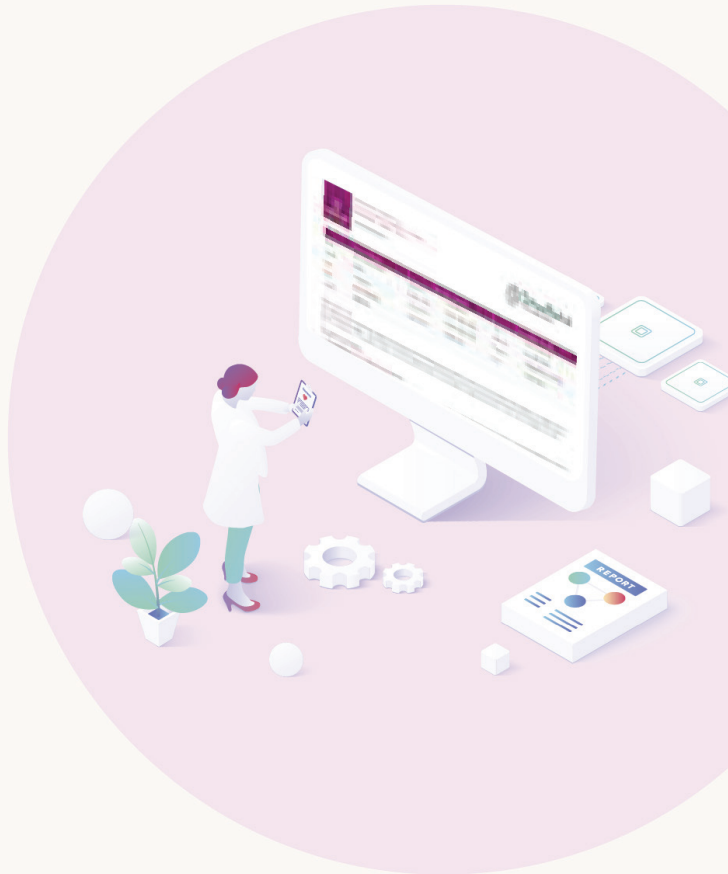
B) Historical Result Summary

Your historical matching score of previous years is based on the search of qualified and consented cord blood units stored in LifeCell's Registry in that respective year.

Historical Results				
Year	Searched Units	Perfect!! 8/8 Match	Good!! 7/8 Match	Acceptable!! 6/8 Match
2021	37721	22	48	126

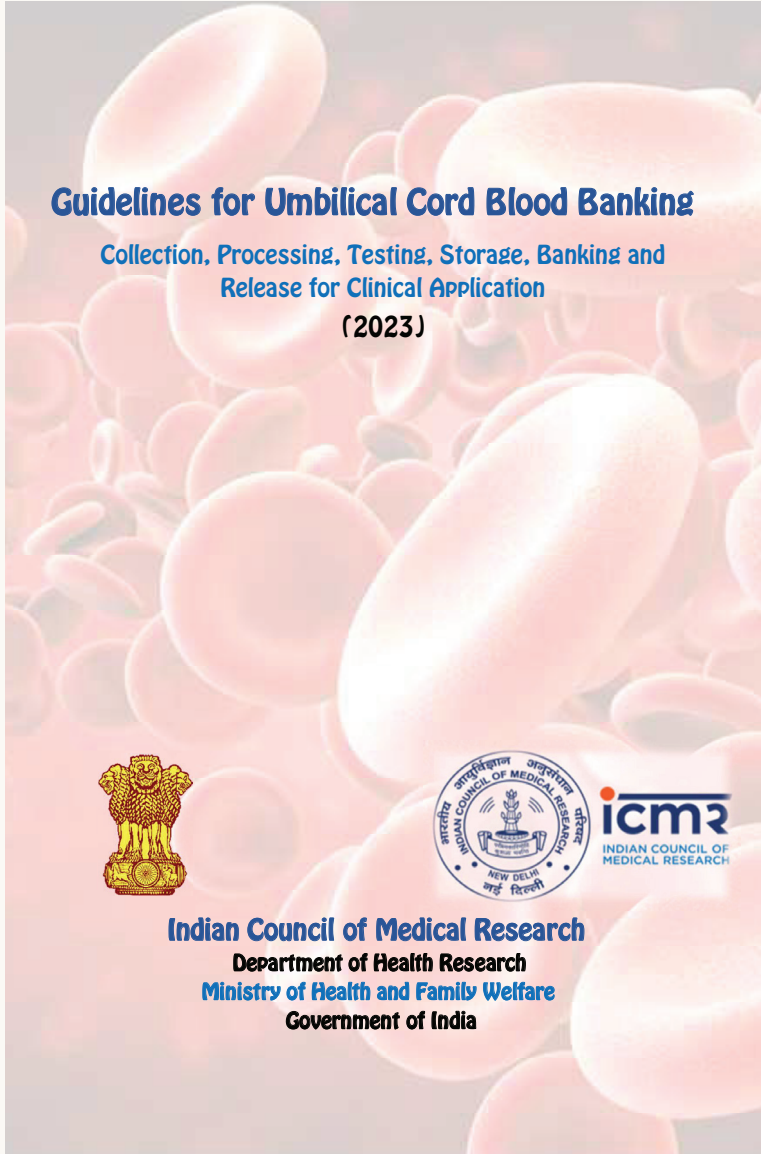
CRM:
DCN: LC/DIA/ASM-RPT/V001
Page 1 of 2

Dr. Mukinkumar, M.D.Pathology, Dip RCPATH (97045),
Lab Director
This is an electronically generated report (Initial report V1)



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Note: This report features only those cord blood units that are consented, qualified, and have completed the mandatory two-year holding period, making them available for community members access. Thousands of additional qualified units exist but are not listed, as they are still within the two-year holding period in accordance with the Client Agreement.



Guidelines for Umbilical Cord Blood Banking 2023	
Advisory Group	
Prof. Narinder K Mehra, Former Dean, AIIMS, New Delhi.	
Lt. Gen (Dr) Velu Nair, Consultant, Apollo Hospital, Ahmedabad.	
Dr. Rajiv Sarin, Professor, Radiation Oncology, ACTREC, Navi Mumbai.	
Dr. Vikram Mathews, Director, CMC, Vellore.	
Dr. Navin Khattry, Deputy Director, ACTREC, Navi Mumbai.	
Working Group	
Prof. Narinder K Mehra, Former Dean, AIIMS, New Delhi.	
Dr. Rajiv Sarin, Professor, Radiation Oncology, ACTREC, Navi Mumbai.	
Dr. Pawan Kumar Gupta, Vice- President, Stempeutics Research Pvt. Ltd. Bengaluru.	
Smt. Pallavi Mishra, QA and Regulatory Affairs, Life Cell Intl. Pvt. Ltd., Chennai.	
Dr. Revathi Raj, Senior Consultant, Paediatrics & Hemato-Oncology, Apollo Children Hospital, Chennai.	
Dr. Geeta Vemuganti, Dean, University of Hyderabad, Hyderabad.	
Dr. Uday Kulkarni, Professor, Department of Haematology, CMC, Vellore.	
Dr. Nita Radhakrishnan, Associate Prof. Department of Paediatrics & Haemato-Oncology, PGICH, Noida.	
ICMR Secretariat	
Dr. Geeta Jotwani, Scientist G, Division of Basic Medical Sciences	
Dr. Varsha Dalal, Scientist D, Division of Basic Medical Sciences	
Dr. Gitika Kharkwal, Scientist C, ICMR-NIOH, Ahmedabad	
Dr. Hemlata, Scientist C, Division of Basic Medical Sciences	
pg. 26	

IAP & India’s Best Stem Cell Doctors DISCOURAGE Private Banking Model

Umbilical Cord Blood Banking: Consensus Statement of the Indian Academy of Pediatrics

ANUPAM SACHDEVA¹, VINOD GUNASEKARAN¹, PAYAL MALHOTRA², DINESH BHURANI², SATYA PRAKASH YADAV³, NITA RADHAKRISHNAN⁴, MANAS KALRA⁵, SUNIL BHAT⁶, RUCHIRA MISRA³ AND PRAMOD JOG⁷;
FOR THE ‘GUIDELINES ON UMBILICAL CORD BLOOD BANKING’ COMMITTEE OF INDIAN ACADEMY OF PEDIATRICS*
From ¹Sir Ganga Ram Hospital, New Delhi; ²Rajiv Gandhi Cancer Institute and Research Centre, New Delhi; ³Medanta - The Medicity, Gurugram; ⁴Super Speciality Pediatric Hospital & Post Graduate Teaching Institute, Noida; ⁵Indraprastha Apollo Hospitals, New Delhi; ⁶Narayana Health City, Bangalore; and ⁷DY Patil Medical College, Pune; India.
*List of members provided as Annexure.
Correspondence to: Dr. Anupam Sachdeva, Director, Pediatric Hematology Oncology and Bone Marrow Transplantation unit, Institute of Child Health, Sir Ganga Ram Hospital, New Delhi 110 060, India. anupamace@yahoo.co.in

Objective: To bring out consensus guidelines for umbilical cord banking in India.

Recommendations: Umbilical cord blood stem cell transplantation has been used to cure many malignant disorders, hematological conditions, immune deficiency disorders and inherited metabolic disorders, even when it’s partially HLA mismatched. Collection procedure is safe for mother and baby in an otherwise uncomplicated delivery. Public cord blood banking should be promoted over private banking. Private cord blood banking is highly recommended when an existing family member (sibling or biological parent) is suffering from diseases approved to be cured by allogenic stem cell transplantation. Otherwise, private cord blood banking is not a ‘biological insurance’, and should be discouraged. At present, autologous cord stem cells cannot be used for treating diseases of genetic origin, metabolic disorders and hematological cancers. Advertisements for private banking are often misleading. Legislative measures are required to regularize the marketing strategies of cord blood banking.

Though this is a promising area, there are no standard indications for the use of UCB derived HSCs at present other than for allogeneic HCT. There is also a lack of valid scientific data proving the therapeutic value for the use of autologous cord blood stored for preventive purposes. Consensus has emerged in recent years that stored autologous cord blood in private enterprise should not be used for treating one’s own genetic condition in future (including hemoglobinopathies, storage disorders, hemophagocytic lympho-histiocytosis, primary immunodeficiencies and others) because these stem cells could harbor the same genetic abnormality that caused the primary disease.



TO KNOW MORE SCAN ME

“Likelihood of using own cord blood is very small (less than 0.04%). Hence, the donation of cord blood to public bank is recommended because there is 100 times more likely chance of release of a unit from public bank compared to a private bank.
– Recommendations by ACOG, AAP and ASBMT.”



TO KNOW MORE SCAN ME

Community Banking: Nationwide Acceptance & Accolades By Medical Bodies



TO KNOW MORE SCAN ME

LifeCell's pioneering efforts in community cord blood banking wins accolades from IAP

AdminJanuary 23, 2021

~ Appreciates LifeCell's Community Cord Blood Banking support in the successful country's first Dual Cord Blood Transplant ~



TO KNOW MORE SCAN ME

Monday, December, 2020 | Today's Market | Current Time: 04:14:05

ISPAT recognizes LifeCell's pioneering efforts of Community Cord Blood Banking

Published on December 21, 2020

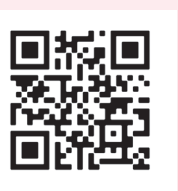
Dr. Amar Verma, President
Genetics Chapter, Indian Academy of Pediatrics (IAP)

It was interesting to note the success of double unrelated cord blood cell transplantation in a patient of Aplastic Anemia at Nasik. The successful procedure indeed underlines the need of cord blood banking for future needs. This has reduced the cost of retrieval in India. I hope this draws attention to the need of a large number of patients awaiting treatment for conditions like Aplastic Anemia.

Dr. Jaideep Malhotra, President
Indian Society for Prenatal Diagnosis and Therapy (ISPAT)

Our heartiest congratulations to the team at LifeCell for their timely support and we also appreciate their dedicated efforts in creating awareness about the life-saving measures of community cord blood banking. We are confident that their continued support to the medical fraternity through innovative stem cell banking practices will bring about remarkable developments in the healthcare segment.

Community Banking: Nationwide Acceptance By India's Best Transplant Physicians



TO KNOW MORE SCAN ME

India's Best Haemato-Oncologists Support Community Cord Blood Banking

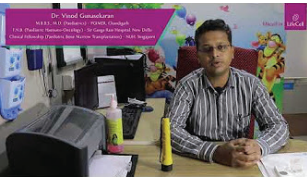


Dr. Sandip Shah,
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India's Best Haemato-Oncologists Support Community Cord Blood Banking



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Senior Haemato-Oncologist &
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India's Best Haemato-Oncologists Support Community Cord Blood Banking



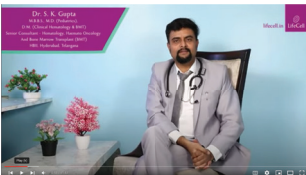
Dr. Purvish Parikh,
MBBS, MD, DNB, FICP, PhD, ECMO
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Haematologist
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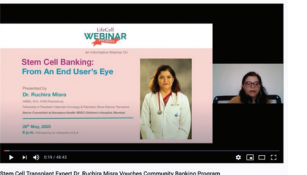
India's Best Haemato-Oncologists Support Community Cord Blood Banking



Dr. Pritesh Junagade
MD (Medicine), MRCP (UK),
MRCPATH (UK), CCT (UK)
Haemato-Oncologist & Stem Cell
Transplant Physician
Nashik, Maharashtra



Dr. Sunil Bhat,
Director & Head of Pediatric
Haemato-Oncology
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Bengaluru, Karnataka



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MBBS, DCh, DNB (Paediatrics)
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Nagpur, Maharashtra

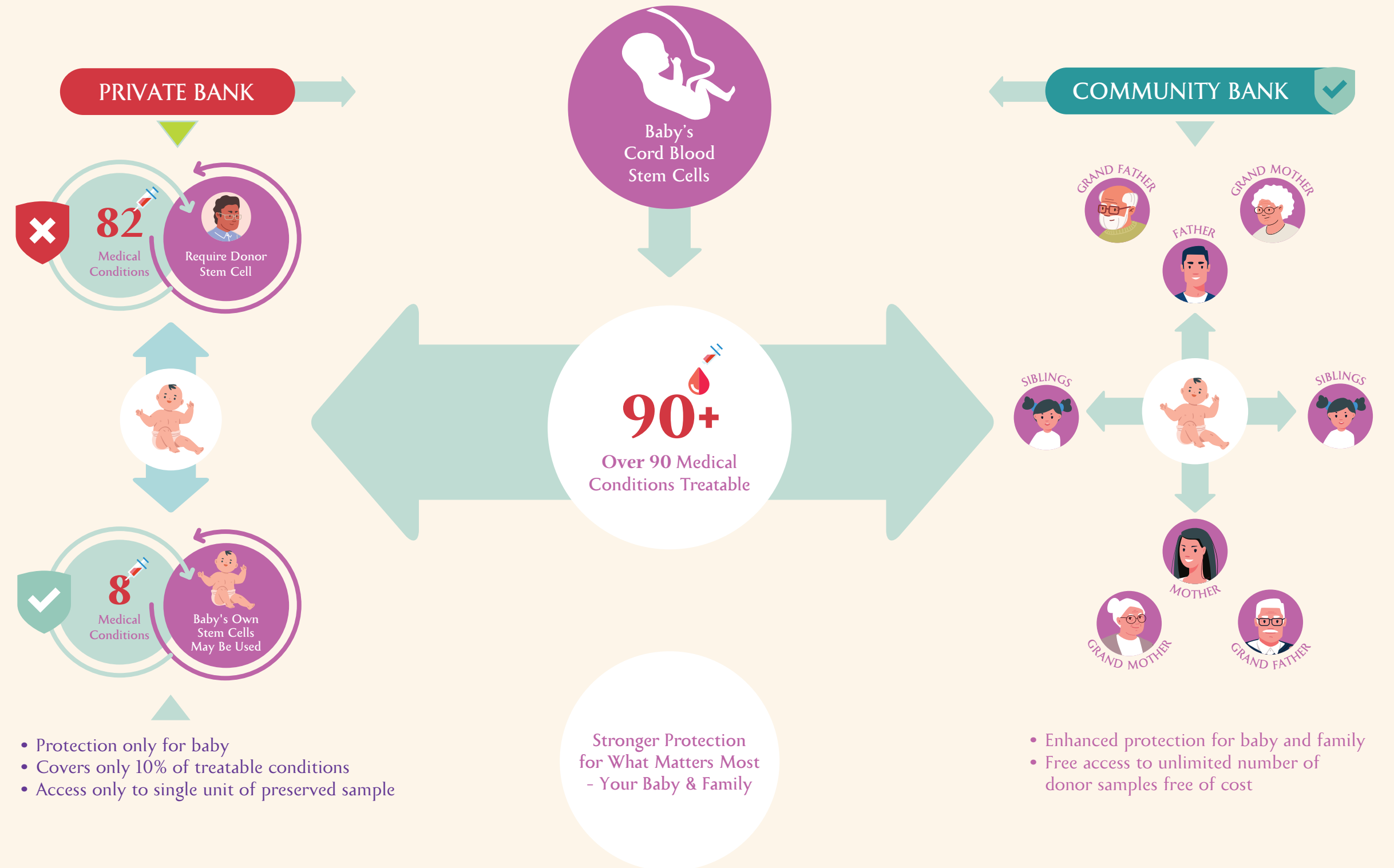
Why Choose Community Bank Over Private Bank?

By choosing community banking, you unveil greater potential of your baby's cord blood stem cells through unmatched benefits such as protection from medical conditions treatable by stem cells, family protection, unlimited number of samples at no additional cost.

Life's Critical Moments Don't Come With A Warning.

Bank Your Baby's Stem Cells With LifeCell's Community Banking.

Community Banking Is Not A Luxury, It's A Choice For Safety.



LifeCell's Stem Cell Transplantation & Infusion Record

All Cord Blood Specimens released by LifeCell International have been viable when thawed

Total number of cord blood transplants = 90

Total number of cord blood units retrieved = 91



Note: In one of the transplant, the patient retrieved & utilized two unrelated cord blood units from LifeCell's Community Banking Registry (Double Umbilical Cord Blood Transplantation).

Summary Of Our Retrieval Experience

	The stored cord blood units were shipped to the below countries at no extra cost to the Clients						
Total Unique Medical Conditions Treated						Total Unique Hospitals	Total Unique Doctors
18	INDIA	USA	SINGAPORE	THAILAND	GEORGIA	23	27

*Data as on September 2025

Unlike other stem cell banks who showcase the data of their entire Group including various subsidiaries and all global facilities, our data features the cord blood releases performed by LifeCell International only from its India based facility. Our transplant record is the ultimate validation of our cord blood processing and storage capability making LifeCell the most trusted and preferred stem cell bank for Indians.

LifeCell – Few Case Studies

Child From Kolkata Underwent Treatment for Autism in USA using His Own Cord Blood stored at LifeCell



"We were happy that we made a wise decision of preserving our baby's umbilical cord stem cells at birth in 2014 with LifeCell, which were used to treat my son for autism. Today, we are seeing great progress in terms of development milestones in my son." - Apurba Dey Singha



TO KNOW MORE SCAN ME



A 3 month old girl from Surat diagnosed with Thalassemia Major received ₹20,00,000 from LifeCell towards her lifesaving peripheral blood stem cell transplant.



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HOPE
— is life —

Thalassemia Major Case Studies

Printed from
THE TIMES OF INDIA

His sister's keeper: Brother's blood is boon of life



CASE STUDY: FAMILY MATTERS

- Nitya Dua, 14, is like any other teenager, but not so long ago, she needed two units of blood every month to treat her thalassaemia.
- Her father, Mohit, a businessman from Ghaziabad, read about bone-marrow transplants being used to treat thalassemia, and when his son was born in 2009, he had the infant's cord blood banked.
- In 2012, doctors performed a bone marrow transplant using the cord blood and bone marrow donated by Nitya's brother.

- "The cord blood wasn't enough on its own," Mohit says.
- Would he recommend that people to get cord blood banked. "How can I not? It did help," he says.
- Nitya is now cured and is focussing on her class 9 studies.



TO KNOW MORE SCAN ME

Because... We Care!

Second Cord Blood Transplant From LifeCell's Community Banking

The Background:

Beta-thalassemia major is a life-threatening blood disorder causing the body to have low hemoglobin levels. Hematopoietic (blood) stem cell transplantation (HSCT) from a matched donor is currently the only known curative treatment. 70% Indian patients do not find a match in their own family. Unfortunately, the case of little Gauri (name changed)* was no different! When the test results concluded that her younger sibling was only a 50% match (4/8) - unacceptable for proceeding with a stem cell transplant, her parents were devastated!

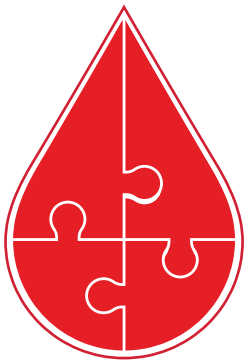


Hurdles to Transplant:

In the absence of a suitable family donor, stem cells from a closely matched unrelated donor are the fallback transplant strategy to ensure lower rates of complications. In India, since we do not have any public cord blood bank, the only option available for patients is to search in international public banks. Sadly, the biggest challenge is <10% probability of finding a match for an Indian patient in these banks because of the low inventory of Indian origin units and the high procurement costs.

That's Where LifeCell Stepped In:

Luckily, since this family was part of the LifeCell Community Bank, they had exclusive access to the Registry of over 75,000 cord blood units (at that point of time) which enabled >97% probability of finding a match. In line with this prediction by the ICMR, Gauri (name changed)* was able to find a high-quality 7/8 (90%) HLA matched sample from LifeCell's Registry. Importantly, the parents could request and immediately withdraw this matched sample at no additional expense, which otherwise would cost >INR 30 lakhs for a single cord blood unit from an international public bank. The child underwent an unrelated donor cord blood stem cell transplantation on 26th May, 2022 at Lotus Hospital in Nashik, Maharashtra under the care of Dr. Pritesh Junagade. The initial outcome has been encouraging. The child was discharged after a month from the hospital.



TO KNOW MORE SCAN ME



The Backstory:

It was 7 years ago that this child was diagnosed with Beta-thalassemia major. Post-diagnosis she was on regular blood transfusions with no satisfactory improvement. The doctors had suggested to the parents that a blood stem cell transplant would be the best treatment. Since the child's parents were expecting another baby a few years later, on medical recommendation, they decided to bank the sibling's umbilical cord blood stem cells with LifeCell's Community Bank in November 2020.

Promises Delivered by LifeCell:

Looking at the gradual recovery of the child and the pleasant experience with LifeCell, the parents were glad to have enrolled in the Community Bank. The retrieval process was convenient and at no additional cost to the patient as compared to other banking models. LifeCell also fulfilled its contractual commitment to the donor family by refunding all the fees paid by them (except sample collection charges) and also provide continuity of benefits available under the Community Banking Program and Client Benefit Programs as applicable until seventy-five years from the date of birth of the Child.



Remitter Account No	Beneficiary	Bank Product	IFSC Code	Beneficiary Account Number	Amount	Instrument Date	UTR Sr.No
XXXXXXXX	XXXXXXXXXX	NEFT	ICICIXXXXXXX	XXXXXXXX	64990	27/6/2022	XXXXXXXXXX



"I really appreciate and congratulate LifeCell for having embarked on this journey of community stem cell banking. We got the stem cells timely shipped in a very good condition. I must say that what LifeCell has been doing is a true social service."

Dr. Pritesh Junagade,

MD (Medicine), MRCP (UK), MRCPATH (UK), CCT (UK)
Haemato-Oncologist & Stem Cell Transplant Physician
Nashik, Maharashtra

LifeCell Testing And Processing Standards:

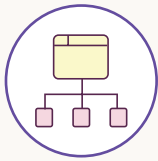
Once the samples reaches our lab, it is registered, tested for infectious diseases and assessed for cell count, viability and sterility. The credibility of LifeCell’s testing standards depends on the following parameters:



Barcode



Automation



Interface



Accreditation



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List Of Tests Performed on the Samples:

Tests Performed On Cord Blood

At the time of Storage:

Cord Blood Group & Rh Typing, Cord Blood Volume, Total Nucleated Cell Count, Total Mononuclear Cell Count, Total CD 34 Cell Count, CD 34 Stem Cell Viability, Hematocrit, Sterility,

At 2 years from date of birth of the Child:

(For Specimens listed in LifeCell Community Banking Registry):

- Hemoglobinopathies
- HLA Typing by Next-Generation Sequencing (NGS)

At the time of retrieval for transplant

Total Nucleated Cell Count, Total Mononuclear Cell Count, Total CD 34 Cell Count, CD 34 Stem Cell Viability, Hematocrit, Sterility, Colony Forming Unit (CFU) Assay, HLA Typing for Donor by NGS, HLA, Typing for Recipient by NGS, Inherited Diseases Testing by Next-Generation Sequencing (NGS).

Tests Performed on Mesenchymal Stromal/Stem Cells (MSC's) at the time of retrieval

Viable Mononuclear Cell Count, Sterility, Mycoplasm Endotoxin, Cell Morphology, Differentiation Potential, Potency, Flow Marker Positives: CD 90, CD 73, CD 105, Flow Marker Negatives: CD 34, CD 45, CD 14, CD 19, HLA-DR

Tests Performed On The Maternal Blood Sample

Blood Group and Rh Typing, Anti-HCV, Anti-HBC, HBSAg, HTLV I/II, Malaria, CMV-IgM, CMV-IgG, HIV I/II, Syphilis; and Nucleic Acid Testing (NAT) is performed for HBV, HCV and HIV viruses

^ Eligibility Criteria For Cord Blood Specimen to Qualify for Listing In LifeCell Registry:

- **Total Nucleated Cells** : $\geq$ 600 Million ($\geq$ 85% Viable Cells)
- **Total CD34+ Cells** : $\geq$ 1.25 Million
- **Maternal ID testing** : Negative (Except CMV-IgG)
- **Sterility testing (bacteria & fungi)** : Negative
- **Hemoglobinopathies** : Sample is screened negative for disorders tested. Please correlate the results with other clinical and diagnostic findings.
- **Maternal blood sample collection** : Within 7 days of childbirth
- **Infant Health History** : Signed by a registered medical practitioner

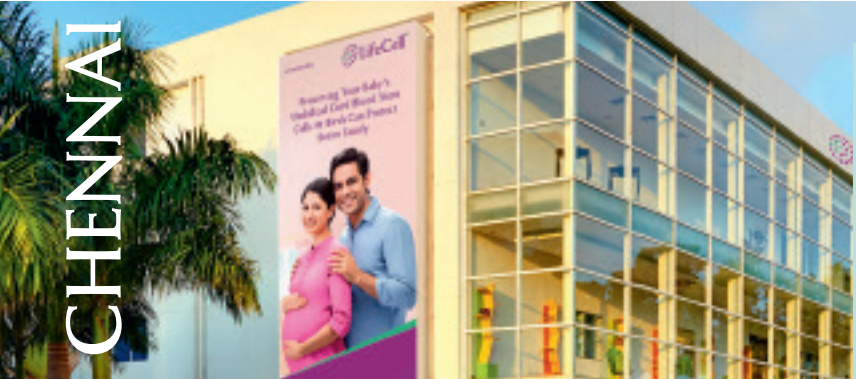


TO KNOW MORE SCAN ME

Preservation Advantage

Exclusive Dual Site Facility

For disaster management and added retention security, LifeCell exclusively offers Dual Site Facility at Chennai (Tamil Nadu) and Jhajjar (Haryana) wherein at its own discretion LifeCell shall safely store the samples at either of these licensed facilities. For long-term cryopreservation, LifeCell shall offer its Services in collaboration with Cellutions BioStorage Pvt. Ltd. an independent company created by the same founders of LifeCell. We assure the same level of quality and dedication to the preservation of the cryopreserved units.



Highlights of Preservation Process:

- The harvested stem cells are mixed with cryo-preservation solution
- Cord blood unit is finally stored in specially designed cryo-bag (25 mL) with attached testing segments
- The samples are placed within aluminium canisters and frozen down slowly
- Then the samples are placed in stainless steel tanks and maintained under below -150° celsius
- After storage, a preservation certificate indicating cell count, viability, sterility, etc., at the time of preservation is sent to the Client
- On every birthday of the baby, an Annual Preservation Status Report with monthly temperature maintenance updates are also sent to the Client

JHAJJAR

LifeCell Preservation Standards:

- **Power-Back up:** Dual fall-over for power through UPS and DG systems and dual fall-over for cryo preservation, self-sufficient for almost a month, substantial enough to make alternative arrangements
- **E-monitored:** Storage vessels that are connected to electronic transmitters and alarms for continuous monitoring with trigger alerts to ensure quick recoveries in event of temperature fluctuations
- **Disaster Resistant:** Seismic resistant buildings with plausibility to withstand natural calamities, with all units stored above ground to avoid submergence during floods
- **Precautionary Measure:** Sufficient measures to move the units off-site, such as fully loaded trucks supported with power and refrigeration supply
- **Security:** 24*7 high security surveillance, with electronic access and CCTV monitoring



Did You Know?

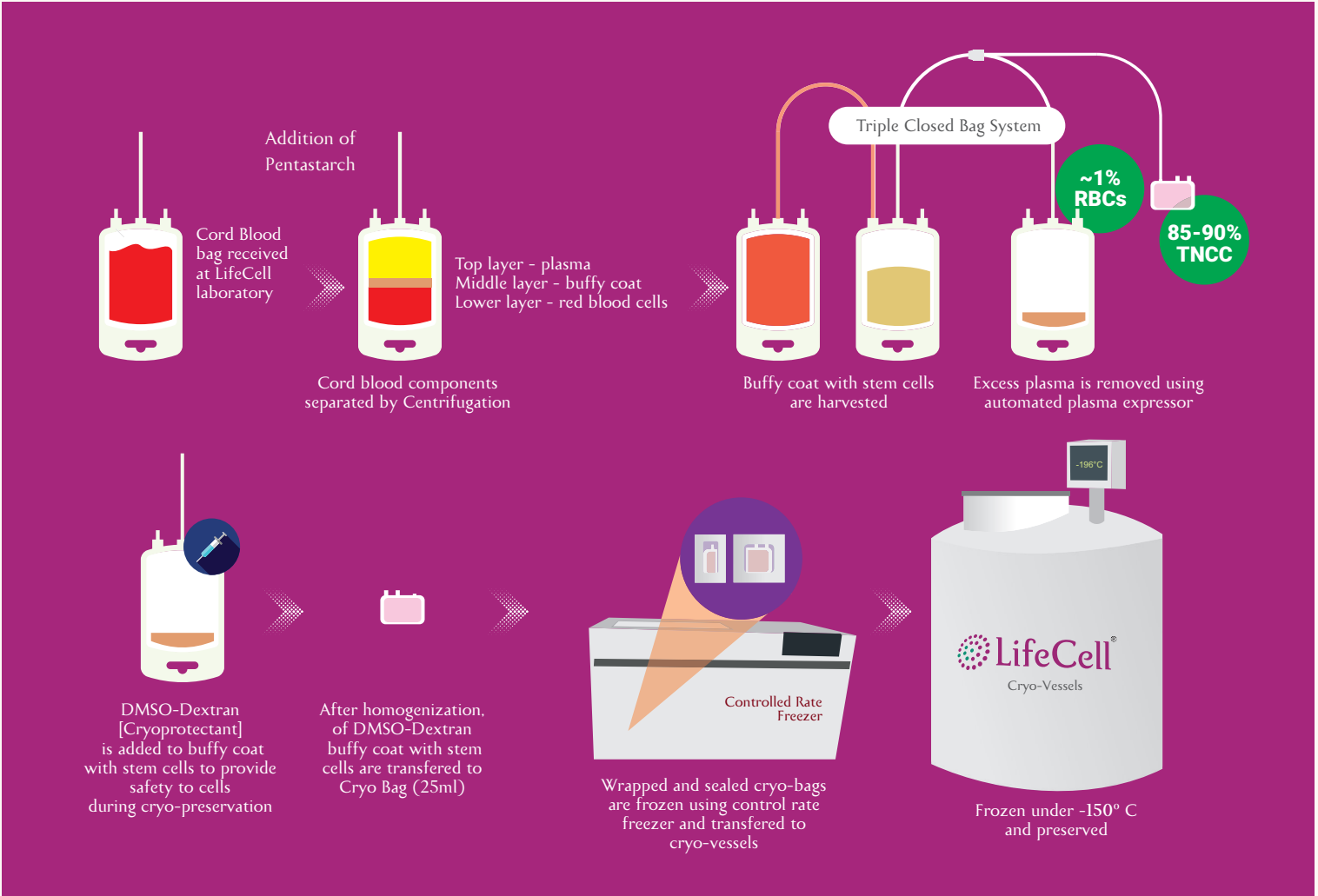
All Cord Blood Units Released By LifeCell For Transplantation Have Been Viable And Accepted By Doctor's When Thawed.

Pentastarch Cord Blood Processing System

LifeCell shall process the cord blood sample by using a personalised, current Good Manufacturing Practice (cGMP) compliant, closed, sterile, advanced and premier technology called Pentastarch Cord Blood Processing System. It helps to extract the **maximum number of viable stem cells** and **maximum red blood cell removal** compared to other methods.

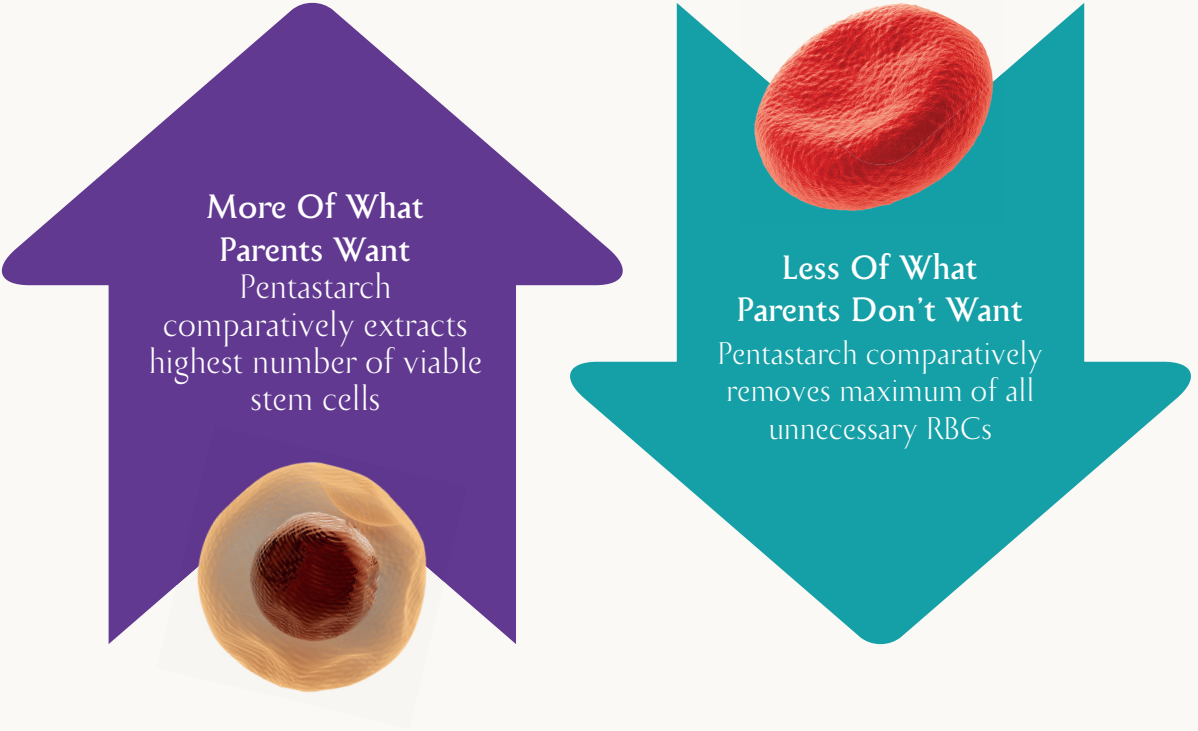


How Does It Work?



The choice is clear. Through our commitment to quality, we are able to offer the best cord blood product when it comes to what matters most. This could lead to better treatment outcomes, less worry and stress and possible financial savings.

What Are The Benefits of Pentastarch Cord Blood Processing System?



Parameters	Pentastarch Cord Blood Processing System	Sepax / Sepax 2	AXP/AXP II	Pentastarch Cord Blood Processing System Benefit To Patient
TNCC Extractions (%)	85 - 90%	75 - 80%	76%	More the stem cells, higher the chances of successful stem cell transplantation
RBC Depletion (%)	99%	84.70%	70%	Low risk of renal failure, Prevents blood group incompatibility, Prevents loss of precious stem cells by reducing need for 'washing' step to remove excess RBCs

*Recovery time is the median time to reach an absolute neutrophil count (ANC) of 500.

LifeCell’s Guaranteed Mesenchymal Stromal / Stem Cells (MSC’s) Program



MSC’s are a type of stem cells that have the potential to differentiate into bones, cartilages and muscles, thereby making them capable of being used in several therapeutic areas in future. Currently, the potential of these stem cells are being assessed in hundreds of human clinical trials. In India, a biotech company has already received the DCGI approval to market such an expanded MSC’s product developed from donated adult human bone marrow for treatment of Critical Limb Ischemia (CLI) due to Buerger’s Disease.

Questions You Should Ask	Other Banks	LifeCell’s Guaranteed MSCs Program	Benefits to LifeCell’s Clients
Regulatory Position	Commercial banking of baby’s own cord tissue is not licensed by DGCI	Provides DCGI approved expanded MSC’s product derived from donated adult human bone marrow for immediate access or NAC-SCRT approved MSC’s from donated human cord tissue in future (subject to govt. regulations)	Regulatory Approved and Licensed MSC’s
Certainty of MSCs Expansion	Possibility of rejection of baby’s own cord tissue due to contamination or no growth of cells during culturing. Thereafter, no compensation & no guarantee of MSC’s if needed in future	No such uncertainty, since the expansion of MSC’s is not dependent on a single source, but rather from donated sources	Guaranteed MSC’s
Time	>45 days	7 days ready-to-use off the shelf	Saves Time
Quantity	50Mn to Maximum 1000 Mn	1000 Mn MSC’s for Every Transplantation	More Cells - More Protection
Cost	~₹ 2 to 5 lakhs for 50Mn to 1000 Mn MSC’s	Free of cost	Saves Money
Financial Assistance	₹ 20 lakh only if the MSCs are viable and expanding at reterival	Financial assistance of ₹ 20 lakhs for every stem cell transplantation for baby, siblings & parents for initial 21 yrs	Best Assurity



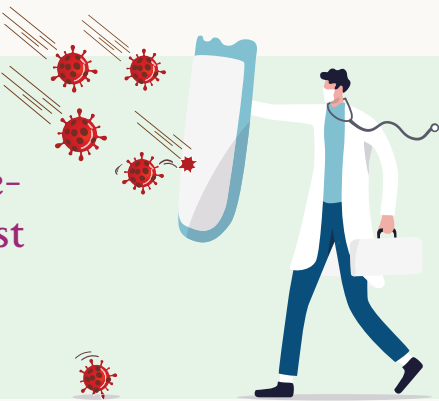
Did You Know? Medical researchers agree that, when properly prepared, it is safe to use MSC therapy products that are “off-the-shelf”, from completely unrelated, unmatched donors. MSCs do not require an HLA match between donor and patient like the stem cells in cord blood. Not only will MSC not trigger graft vs. host disease (GvHD), but MSCs are known to calm the immune system and physicians often give MSCs to patients suffering from GvHD to help them recover.



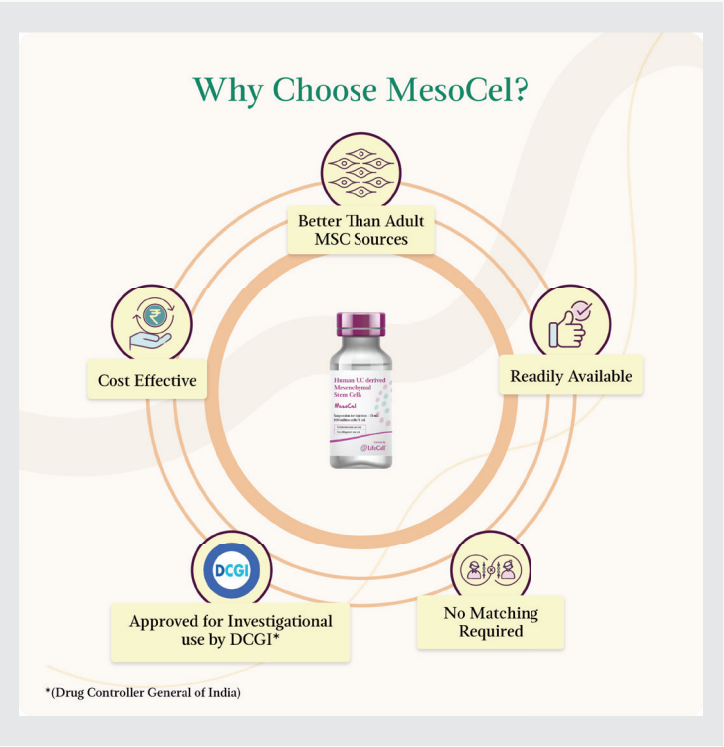
TO KNOW MORE SCAN ME

LifeCell Gets DCGI Nod For Clinical Trial Of New Stem Cell Therapy To Treat COVID-19 Patients!

Mesocel’ could be a game-changer in the fight against COVID-19



In an exciting new development, LifeCell recently received approval from the Biological Division of the Drug Controller General of India (DCGI) to conduct a clinical trial for evaluating the safety and efficacy of ‘Mesocel’ for the treatment of severe COVID-19 patients suffering from life-threatening pneumonia and acute respiratory distress.



2.DT.NEXT

Chennai, Friday, September 17, 2021

Stem cell therapy to treat COVID gets nod for trials

CHENNAI: Stem cell-based therapy to treat COVID-19 has received approval “ for a clinical trial from the Biological Division of the Drug Controller General of India (DCGI). The therapy, Mesocel, helps treat COVID-19 pneumonia and acute respiratory distress.

Mesocel has been developed by LifeCell. It is derived from Mesenchymal Stem Cells obtained from donated umbilical cord tissue. The clinical trial will be conducted in two phases that will evaluate the safety and efficacy of Mesocel for the treatment of patients with moderate to severe infection, according to the researchers.

It is a stem cell-based therapy that involves more than 100 million expanded Mesenchymal Stem Cells (MSCs) obtained from donated umbilical cord tissues and are intravenously infused into patients in two doses. The therapy can be undertaken without immune matching between donor and patient.

MSCs isolated from the umbilical cord have a superior expansion capability compared to their adult-sourced counterparts.

“This new cell therapy utilising the potent anti-inflammatory, immune-modulating and tissue regenerative properties of MSCs will further strengthen the fight against COVID and help save lives. Interestingly,

similar therapies have already progressed to phase III of clinical trials in other countries—not just for COVID treatment but other associated complications—thus offering great hope for Indian patients,” said Mayur Abhaya, managing director, LifeCell.

LifeCell has set up a manufacturing facility on its Chennai campus that is equipped with multiple bioreactors of different sizes. The facility ensures uninterrupted supply of MSCs for timely and affordable treatment by using the bio-reactors to expand the cells in a sterile environment, thereby providing significant advantages from a cost and quality-control perspective.



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TO KNOW MORE SCAN ME

How LifeCell Community Banking Works?



Why LifeCell Is India's Most Trusted And Reliable Stem Cell Bank?



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Did You Know?

Till date, LifeCell has disbursed more than ₹1,50,00,000 (₹1.5 crore) to many of its Clients under the Medical Assistance Program to offset stem cell transplantation related expenses.



TO KNOW MORE SCAN ME

Unmatched Preservation Benefits



Free Stem Cell Expansion:
Clinical expansion of stem cells to provide higher volume of stem cells if required at the time of transplant at no additional cost



Free Worldwide Shipment:
Shipment of stem cells globally during transplant at no additional cost



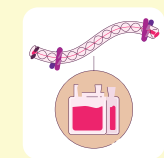
Free Medical Concierge:
Medical guidance on stem cell treatment options and recommended transplant centres with their specialisation will be shared during transplants



Transplant Related Tests:
Sample testing for transplant at no additional cost



Annual Preservation Status Report:
Preservation status report with details of monthly temperature track record shared once every year



Did You Know?
“Cord blood donated 20 years ago at the BMDI Public Cord Blood Bank, Melbourne, Australia was shipped to Cell Therapy Laboratory, USA to treat a young girl diagnosed with leukemia. Even after 20 years, 99.4% of the cryopreserved cells were recovered, with a stem cell viability of 87%.”



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LifeCell's Advanced & Premium Sample Collection Kit

Optimal standards of cold chain and physical safety are necessary for the maintenance of cell integrity and quality of the sample that is being transported. LifeCell's steel kit ensures that your baby's stem cells are protected against fluctuations in external temperature and other damages.

- Robust Stainless Steel Body
- Optimum Transit
- Temperature
- Water Resistant
- Eco-Friendly
- Compact



Retrieval Process

The preserved stem cells can be released only for approved transplants or approved clinical trials upon request from patient's transplant physician. HLA typing check is done between donor and recipient. Prior to release, the stem cells are tested for potency & viability and free expansion of stem cells is done if there is a need for higher volumes. The stem cells are then shipped using special dry-shippers to any location across the world where it is required for transplant.



TO KNOW MORE SCAN ME

Still Have Questions?

We understand that you would require additional information. We want to help you by offering detailed answers to the most common queries that you may have.

- Why are umbilical cord blood stem cells preferred over other sources of stem cells?**
Stem cells can treat more than 90+ blood related medical conditions. Cord blood cells can be modified and does not have to be exactly matched to the patient like transplants from an adult donor thereby offering better transplant outcomes. Also, they can be easily collected at birth with no harm to mother or baby.
- When stem cells are available in other parts of our body and can be retrieved when required, why should I preserve my baby's umbilical cord blood stem cells?**

OR

If I can use my own stem cells then why should I go for Community Banking?
Stem cells from our own body sources such as bone marrow and peripheral blood or even own cord blood can be used to treat only 10% of all blood conditions treatable by stem cells. In 90% of the treatments, we need stem cells from a matching donor. LifeCell's Community Banking offer the best chances to procure matching cord blood stem cells from another member of the community. Also, the entire family can retrieve unlimited stem cells from the LifeCell registry, absolutely free of cost.

- What is difference between private banking and community banking?**
Private stem cell banking preserves your baby's stem cell exclusively for your baby's use only and in some cases for the sibling too. This offers protection only

against conditions that can use your baby's own stem cells, which is only 10% of all conditions treatable by stem cells. For the treatment of the remaining 90% of the conditions, your baby's preserved stem cells cannot be used and you would require stem cells from a healthy donor from external sources. **Hence, medical bodies in India and abroad do not recommend Private Banking.**

Community stem cell banking works on the concept of sharing baby's stem cells amongst a community of parents. While your baby's own stem cells can be accessed for protection against conditions requiring own stem cells, stem cells from the common pool serve as a source of donor stem cells offering protection against remaining conditions. Hence your baby is protected against all conditions treatable by stem cells. **LifeCell's Community Banking aligns with the recommendations of medical bodies in India and abroad⁸.**

Did You Know?
LifeCell has successfully facilitated 90 cord blood transplantations & infusions by releasing total 91 cord blood units. 26 cases were using child's own stem cells, 62 using related donor (sibling) stem cells and 2 transplantations using unrelated donor stem cells from LifeCell's Community Bank Registry wherein the first transplant recipient received two cord blood units (Double Umbilical Cord Blood Unit Transplantation) and the second transplant recipient received a single unrelated cord blood transplantation. Till date, we have facilitated 69 transplants in India and 21 transplants globally (17 in the USA, 2 in Singapore, 1 in Thailand & 1 in Georgia). [Data as of September 2025].

5. **When will my baby's cord blood stem cells get listed on the LifeCell Registry?**

Some babies may require their own cord blood stem cells within the first 2 years to treat certain medical conditions like Autism, Cerebral Palsy, etc. that arise due to developmental delays. For this purpose, your baby's own stem cells are preserved with exclusive rights to access only by you during the first 2 years. It will be moved to LifeCell Registry only after this period. In the event the baby is diagnosed of medical condition that requires the use of own cord blood stem cells, the Parents may exclusively reserve the Child's own stem cells without exiting the LifeCell Community Banking Program by providing documentary evidence from the treating transplant physician to LifeCell.

6. **What if my baby's stem cells are released to some other member in the community and later on my baby requires its own stem cells?**

There is no risk to sharing your baby's stem cells. Similar to blood, our body's stem cells also regenerate continuously. If required, own stem cells can be easily retrieved from the blood or bone marrow of our body.

For instance, Actor Lisa Ray did not have the facility to preserve her umbilical cord blood stem cells at birth. However, in order to treat her Multiple Myeloma, a type of blood cancer, her own peripheral blood stem cells came to her rescue and gave her a new lease of life.

7. **If my child's stem cells are released to other community member, will my child continue to have access to stem cells from the community pool?**

Yes. Not only your baby but your entire family (Parents, Siblings, Maternal and Paternal Grandparents) will also continue to have access to community donor stem cells during the duration of the contract with unlimited access to matching stem cell units and all other benefit programs as applicable.

8. **How much cord blood is needed for a transplant?**

When treating blood related medical conditions, the stem cells transplant dose should be at least 25 million TNC per kilogram of patient body weight. As per our published data on our in-house cord blood processing, the median size of our cord blood collections is 98 ml. This corresponds to 650 to 750 million Total Nucleated Cells (TNC) or around 2 million cells that test positive for the stem cell marker CD34. The median RBC depletion achieved was 95.4%.

9. **If community stem cells banking is highly beneficial, why did my doctor not advise me on the same?**

As per the India Academic of Pediatrics(IAP), there is lack of awareness regarding the utility of cord blood stem cells and its uses amongst the obstetricians and pediatricians. A study suggested that 58% Indian doctors were unaware of the indications of cord blood stem cells; another alarming study showed that 90% doctors felt that umbilical cord blood from a child can be used to treat thalassemia in the same child, which is also incorrect. These studies highlight the need for awareness among the Indian doctors regarding the established and approved indications of cord blood in own and donor stem cell transplantation.



Did You Know?

Continued Protection Against Rejection: Companies operating hybrid or private banking models would reject an unfit sample and refund your money without any further protection. In contrast, LifeCell's Community Banking model continues to protect your baby & the entire family even in case of the low volume or unfit nature of the baby's cord blood sample.

Cellutions[®]
BioStorage

Research-to-launch Cryopreservation Bank – Cellutions BioStorage Inaugurated

Bridging the growing supply-chain gap in preservation & maintenance of biospecimens by leveraging advanced technologies, Mr. Mayur Abhaya, Managing Director of LifeCell International has incorporated a new independent company named Cellutions BioStorage Pvt. Ltd. Cellutions is a comprehensive biomaterial storage and logistics company that aims to serve biopharmaceutical companies seeking to outsource the whole gamut of supply-chain management, across the spectrum of the product life cycle. The newly-launched facility is equipped with world-class infrastructure spread across over 25,000 square feet. It is co-located in a separately marked area at the same licensed premises as LifeCell International's current laboratory at Chennai.



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Cellutions is created by the same founders of LifeCell, who have substantial industry experience in establishing several pharmaceutical and biotechnology ventures. Thus, our Clients can continue to expect the same quality & commitment towards care of the cryopreserved units as is being rendered today by LifeCell. The new company has the requisite licenses to operate and is also financially well capitalized to ensure that it can adequately meet the long-term storage commitments.

As part of this launch, Cellutions also announced its maiden collaboration with LifeCell, India's leading stem cell bank, as its first client. Under this new collaboration, only a part of the contractual service offered by LifeCell, specifically related to the obligations of long-term cryopreservation (21 & 75 years storage), shall now be jointly offered along with Cellutions BioStorage. LifeCell shall continue to render all other contractual services and obligations including the Client Benefit Programs throughout the contracted period. LifeCell shall also continue to remain the single point of contact for all its clients including for the portion of the long-term cryopreservation services to be rendered by Cellutions BioStorage

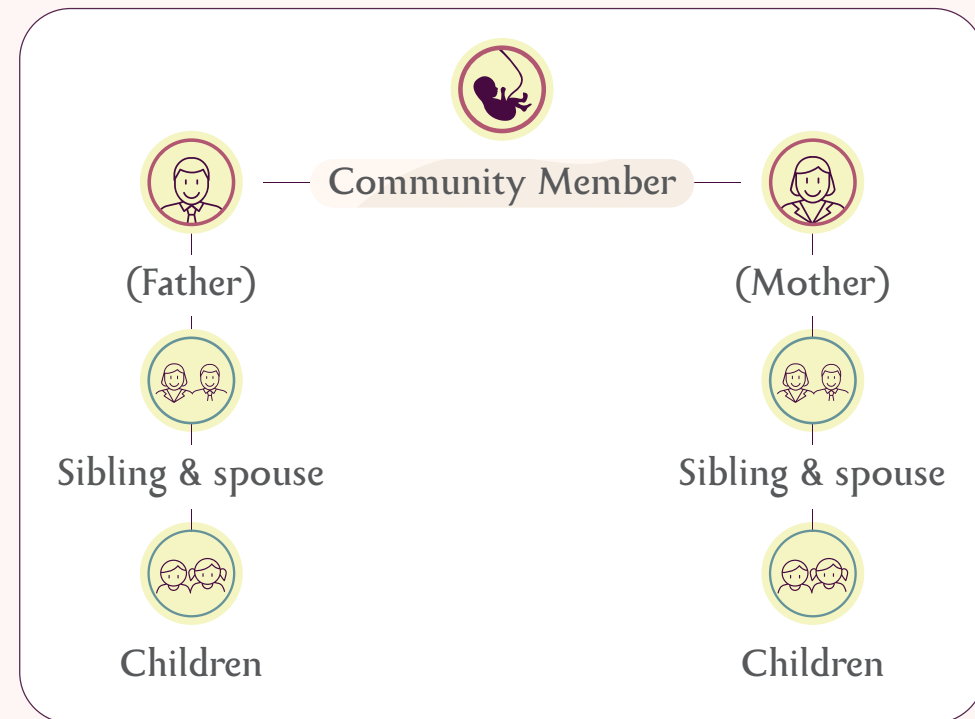
Extend The Life Saving Gift Of Community Banking To Your Loved Ones With



Amplify the Utility of Your Baby's Cord Blood

Who Can Avail FamilyFloater?

Biological siblings of the child's parent(s), their spouse, or their biological children above 2 years of age.



Share the Benefits of Community Banking with Your Loved Ones!



TO KNOW MORE SCAN ME

Here's How The Family Floater Plan Benefits Your Extended Family!



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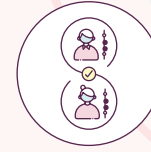
Largest Inventory
Accessibility to the
largest inventory of
85,000+ Indian origin
cord blood units



Disease Protection
Stem cell treatment
possible for 90+
medical conditions



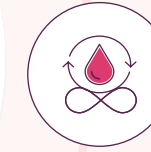
Unmatched Assurance
Unmatched assurance of
>97% chance of finding
matched donor units



Quick Accessibility
Free shipping of
matched units in India
& globally



Unlimited Retrievals
Unlimited sample
retrievals at
no extra cost



Quality & Safety Assurance
Quality guarantee and
disaster relief support along
with genetic profiling of the
units before release



How To Upgrade To Family Floater Plan?



Order Online

- Hassle-free sign-up for existing
Community Banking members
- Log in to your LifeCell
account
 - Order the service directly



Fill in the details

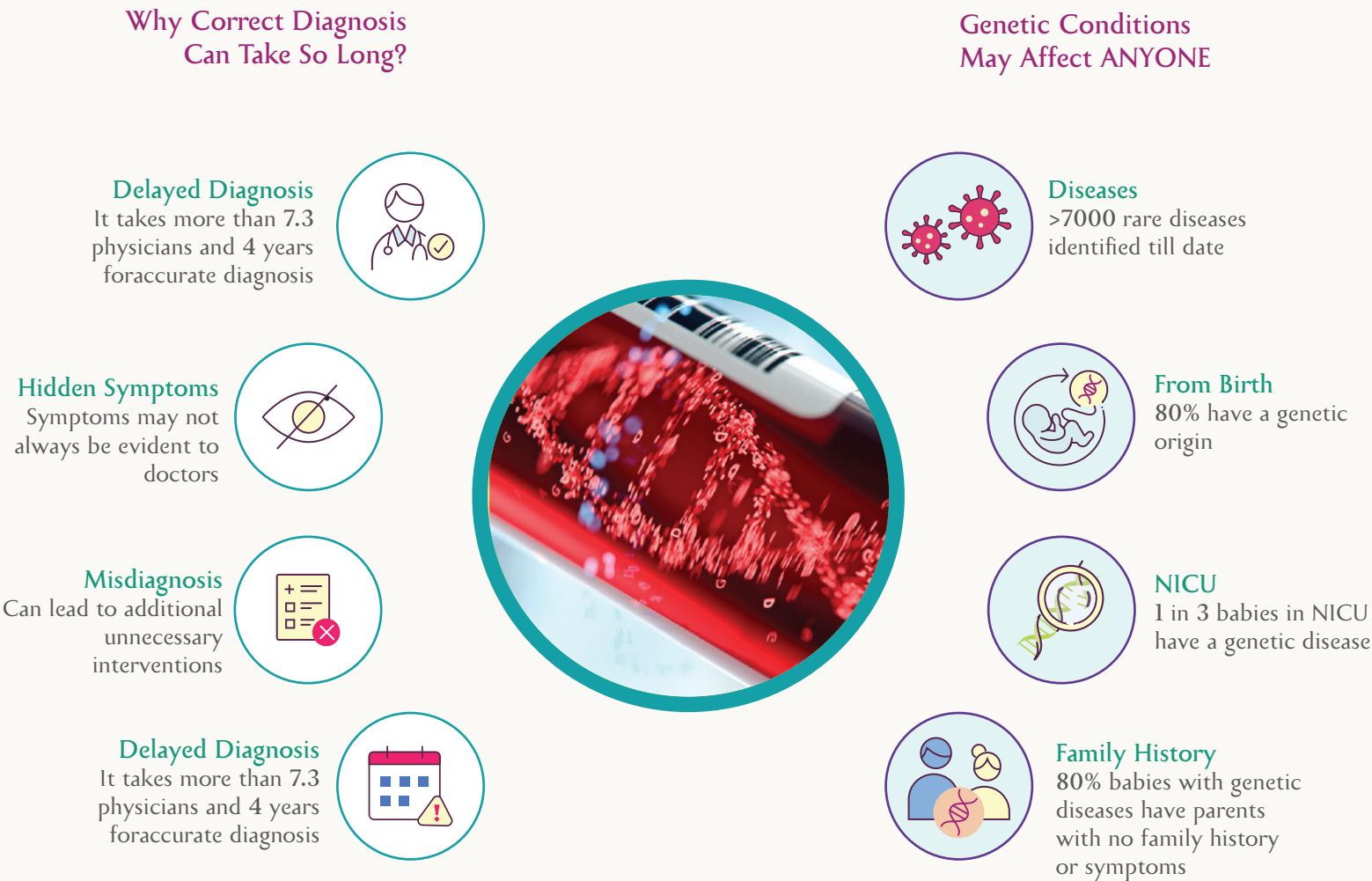
- Enter the details of the
new members
- Provide necessary
documents for verification



Avail benefits

Enjoy the life-saving benefits
of community banking
after 2 years of inclusion
in the Community Banking
Program

The Long Diagnostic Odyssey Of Genetic Conditions



Shift In Newborn Diagnostics - India & Globally

Legislators Introduce Bill to Increase Whole-Genome Sequencing Access for Pediatric Illnesses

Aug 02, 2019 | [staff reporter](#)

Health

Genome sequencing 'revolution' in diagnosis of sick children

 **Fergus Walsh**
Medical correspondent
@BBCFergusWalsh

10 June 2019

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THE ECONOMIC TIMES

Business News > News > Science

Genome sequencing: A solution to India's problem of rare genetic diseases

BY [PRERNA KATIYAR](#), ET BUREAU | NOV 02, 2019, 11:00 PM IST

[Post a Comment](#)

**Press Information Bureau
Government of India
Ministry of Science & Technology**

23-September-2019 18:33 IST

Government launches 'UMMID' initiative to tackle inherited genetic diseases of new born babies

People who cannot afford expensive care for genetic disorders to be benefited: Dr. Harsh Vardhan



The Telegraph

News

All children to receive whole genome sequencing at birth, under ambitions laid out by Matt Hancock

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United States: Sequence Of Events: Genetic Testing Offers Significant Promise, But Coverage And Access Limited

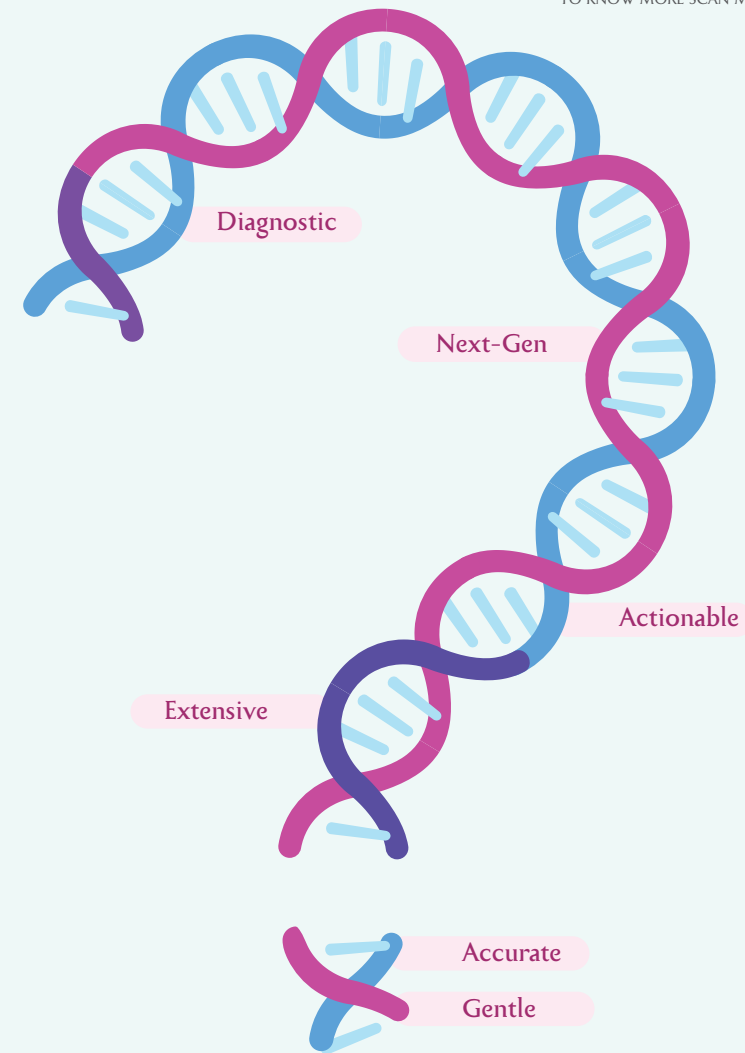
Last Updated: December 23 2019
Article by [Ethan Jorgensen-Earp](#)
Holland & Knight



TO KNOW MORE SCAN ME

Why GenomeScope For Newborns?

- Breakthrough next-generation sequencing technology (NGS) based test for newborn baby.
- Expedites the diagnostic journey for **thousands of genetic disorders**.
- Analyses **4000+** genes related to early childhood-onset disorders, many of which present within the first **28 days of life**.
- Allows **early diagnosis and faster treatment**, thereby saving hospital **costs** and allowing **improved quality of life** for the baby.



TO KNOW MORE SCAN ME



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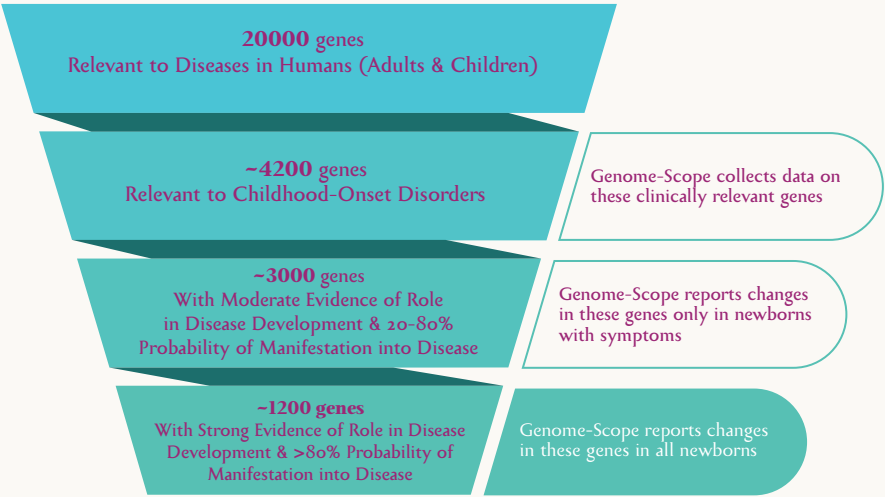
What Makes Genome-Scope A Well-Curated & Intricately Designed Test?

Analytical Validity

Genome-Scope uses advanced next-generation sequencing technology to obtain DNA sequencing data with >95% accuracy.

Clinical Validity

Genome-Scope uses advanced next-generation sequencing technology to obtain DNA sequencing data with >95% accuracy.



Clinical Utility

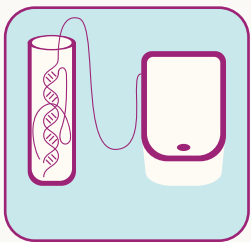
Genome-Scope identifies and reports on conditions for which either effective:

Treatment Exists: Helps in early diagnosis and initiating prompt treatment, thereby allowing the child to have a better quality of life and lowering the overall treatment costs. Furthermore, any harm to the newborn can be prevented by making the right medication choices and dosages based on genetic information.

Treatment Does Not Exist: Knowledge of this is still vital as it helps reduce the diagnostic odyssey for an ill child, guides the family in preparing for the care of an ill child, and aids in future reproductive planning.



TO KNOW MORE SCAN ME



How Does GenomeScope Work?

Obtain Sample:

- Umbilical Cord Blood
No additional sample required for client's preserving their child's cord blood stem cells with LifeCell.
- Heel Prick
Few drops of blood collected hygienically from the baby's heel and spotted onto a filter card.

Next Steps

- Post-Test Counselling
Our in-house Certified Genetic Counselor will help you interpret the test results.
- Future Re-Analysis
Based on any change in the child's clinical status or when new genomic information becomes available.



TO KNOW MORE SCAN ME

Prepare For The Test

- Order From Physician
This test can only be ordered by a Physician. If you're unable to find one, LifeCell shall appoint a Physician on your behalf at no additional cost.
- Pre-Test Counselling
Our in-house Certified Genetic Counselor will help document family history and also clarify test benefits and limitations.

Next-Generation Sequencing

- Collect Raw Data
Sequencing information of >4,000 genes will be available for analysis and reporting within a rapid turnaround time of 28 days.
- Obtain Results
Your results will only be shared with the ordering Physician and made available to you online.
- Cloud Storage
DNA sequencing data is stored on a secure cloud environment for future use.



Data Privacy

Patient data privacy is very important to us. We assure you that your clinical data and DNA information will be securely stored. We will not use or share any details with a third party without your consent. Based on your request, we shall also assist in transfer or deletion of the data.

Conditions Diagnosed With GenomeScope & Few Treatment Options



Pediatric Conditions

- Cardiac Disorders
- Respiratory Disorders
- Blood Disorders
- Metabolic Disorders
- Paediatric Cancers
- Neurological Disorders and many more...



Promise In The Pipeline

Currently there are more than

550

Medicines In The Pipeline

Common Treatment Modalities

- Blood Stem Cell Transplant
- Medications
- Surgery
- Enzyme Replacement Therapy
- Dietary Modifications
- Others



The US FDA has Approved more than

750

Orphan Drugs since the passage of the Orphan Drugs Act



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"The **Ultimate Preventive Healthcare Package** That Offers **Genomic Scan of 4000+ Genes** Of The Baby Related To Early Childhood-Onset Disorders + Get **Community Stem Cell Banking** That **Protects Your Baby & Entire Family** From **90+ Blood Disorders**."

Challenges You Face

Long and Slow Diagnostic Journey makes the patients and families feel frustrated and scared

Delayed / Misdiagnosis leads to loss of life or even irreversible progress of disease with huge financial and emotional burden

Many of these genetic diseases can be treated by donor **blood stem cell transplantation**

Low Inventory Size of public banks and **High Costs** makes stem cell transplants inaccessible to Indians

Detect 1 Prevent 1 Protect

Solutions We Offer

Genome-Scope allows diagnosis of thousands of early childhood-onset genetic disorders with TAT of 28 days

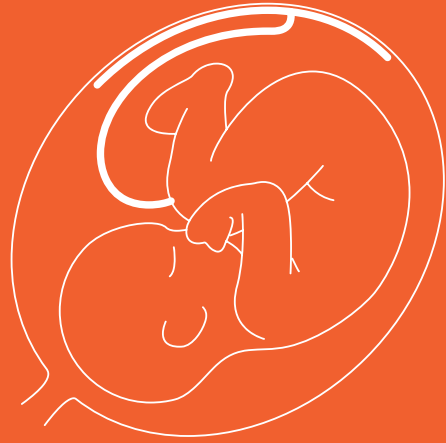
Allows **early diagnosis, free genetic counselling and faster treatment**, saving hospital costs and improved quality of life

LifeCell's Community Banking offers access to the largest pool of Indian origin stem cells thereby protecting baby and the entire family

Our Community Bank offers **access to an inventory of 75,000+ units and Financial Assistance of upto INR 20 lakhs** for every stem cell transplantation

**Your Baby Has the Power to Heal:
Harness the Natural Healing Properties
with LifeCell's HuPlaMatrix™ for
Advanced Wound Care**

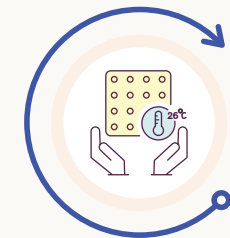
**Exclusive Service for the Community
Banking Members!**



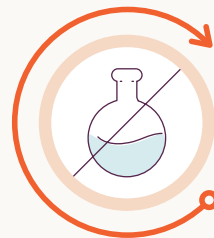
What is HuPlaMatrix™?

LifeCell's HuPlaMatrix™ is India's first & only advanced wound care product, derived from the human amniotic tissue. Harnessing the natural healing properties of amniotic membrane (AM), it acts as a biological wound cover for accelerated tissue regeneration and reconstruction.

An Advanced Wound Cover



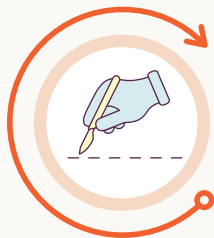
Aseptically processed
& terminally sterilised



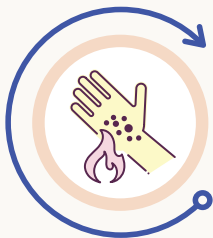
Non Toxic & Bioresorbable*



Easy to Apply.
Ambient temp storage and
available in multiple sizes



Indicated for use
in Acute
and Chronic wounds



Reduces Pain,
Inflammation & scar
tissue formation

*Comparative evaluation of the efficacy of amniotic membrane with collagen membrane along with demineralized freeze-dried bone allograft in the treatment of periodontal intrabony defects – A clinico-radiographic study. Agrawal, Eiti; Chopra, Rahul; Gupta, Swyeta Jain; Sharma, Nikhil; Khan, Farheen; Gupta, Neetika. .Journal of Indian Society of Periodontology 26(5);p 458-464, Sep–Oct 2022.

For All Your Wound Care Needs



HuPla ^{PHMB}™



HuPla ^{FLO}™



HuPla ^{Matrix}™

Avail This Exclusive Service in a Few Simple Steps!



Enrol for stem cell banking
with LifeCell.



Opt for the service during order
confirmation.



A LifeCell paramedic to be
present at the time of delivery to
collect your placenta.

Get 2 Products Absolutley FREE

*Note: For more information kindly refer our latest Client Agreement.



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LUXURY OR NECESSITY

CAR AIRBAGS



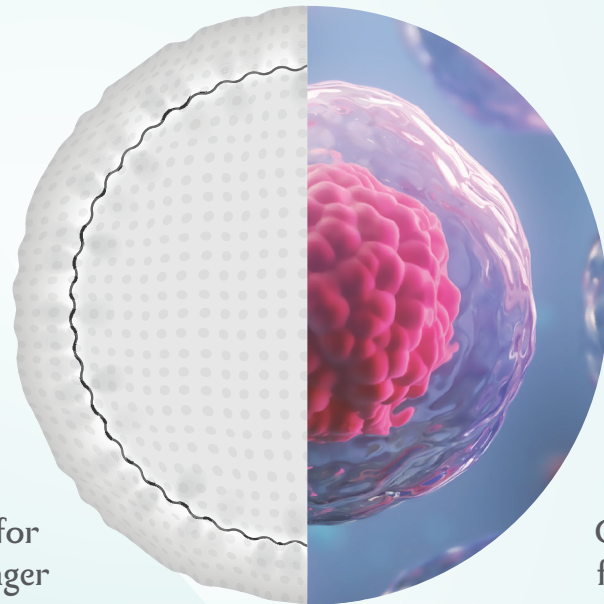
First patent granted



Offered as 'luxury' for driver & front passenger



India makes minimum six car airbags mandatory for complete protection of all passengers



STEM CELLS



First stem cell transplantation



Offered as 'luxury' for baby & siblings

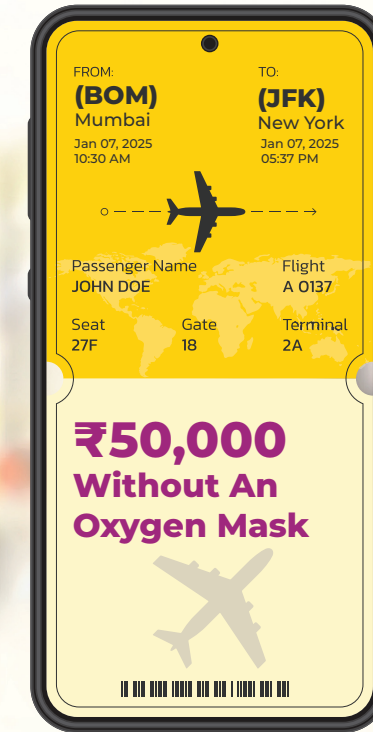


Indians must preserve their baby's cord blood at birth under Community Banking to get lifetime access to India's Largest Bank of Stem Cells

No More A Luxury, But A Necessity To Protect Your Entire Family!



Which One Would You Choose?



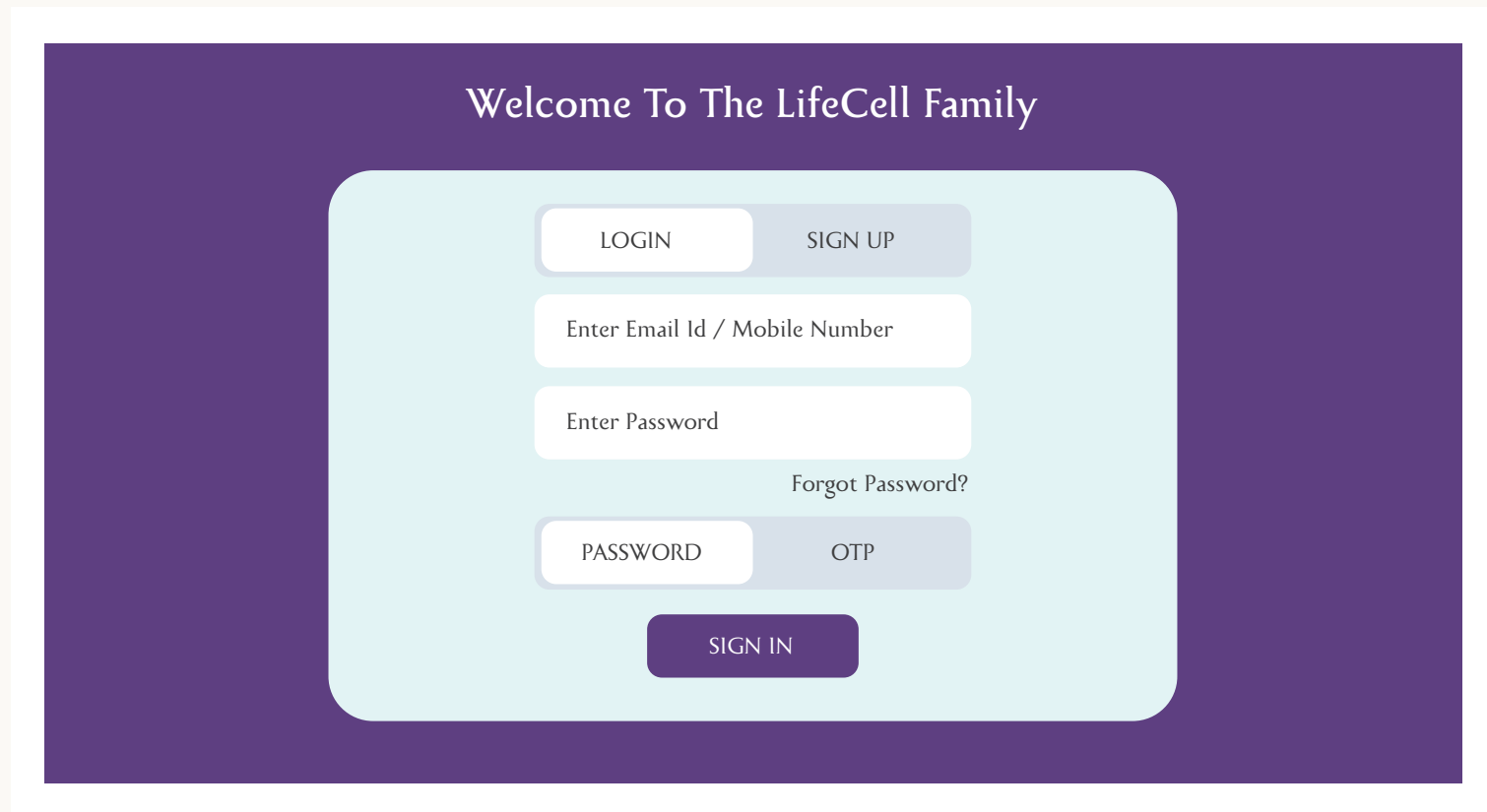
Life's Critical Moments Don't Come With A Warning.
Bank Your Baby's Stem Cells With LifeCell's Community Banking.

It's Not A Luxury, It's A Choice For Safety.

LifeCell's Sign-in Benefits

For the first time, LifeCell brings you a rich user experience once you enrol for **Stem Cell Banking**.

Sign in to the **LifeCell website** with your **CRM number & track your plan details** (Storage Plan, Payment Details & Options, Sample Storage Temperature, Download Reports) in **real-time**.



A mockup of the LifeCell sign-in interface. The background is a solid purple color. In the center, there is a light blue rounded rectangle containing the login fields. At the top of this rectangle, the text "Welcome To The LifeCell Family" is written in white. Below this, there are two buttons: "LOGIN" (white with purple text) and "SIGN UP" (purple with white text). Below these buttons are two input fields: "Enter Email Id / Mobile Number" and "Enter Password". To the right of the "Enter Password" field is a link that says "Forgot Password?". Below the input fields are two more buttons: "PASSWORD" (white with purple text) and "OTP" (purple with white text). At the bottom of the light blue rectangle is a large purple button with white text that says "SIGN IN".



LifeCell International Private Limited

#16, Vijayaraghava Road, 1st Lane, T. Nagar, Chennai - 600007, Tamil Nadu, India.

TOLL FREE : ☎ 1800 266 5533 🌐 www.lifecell.in