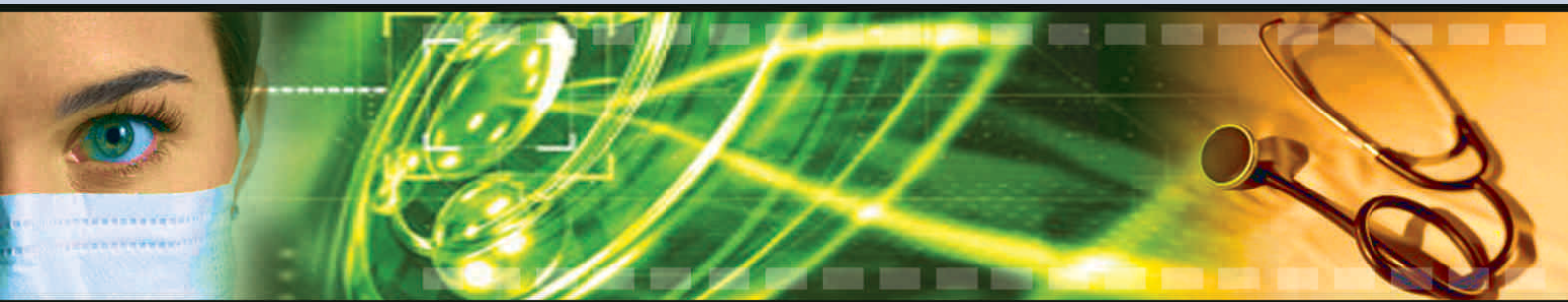


ARAS - Cord Blood Banking



SRISHTI Software
progress through creation...

Cord Blood Banking : Cord blood banking refers to the collection and processing of umbilical cord blood of a new born infant for future use. Cord blood cells have the potential to treat several life-threatening diseases like blood and immune system related genetic diseases and cancers. Cord blood is extracted from the placental end of the cord from the neonate after the umbilical cord is cut. It is processed and stored in an accredited blood bank for handling stem cells.

Recent studies have shown that cord blood has advantages over bone marrow transplantation. Expectant parents can choose to bank their newborn's cord blood for future disease treatments.

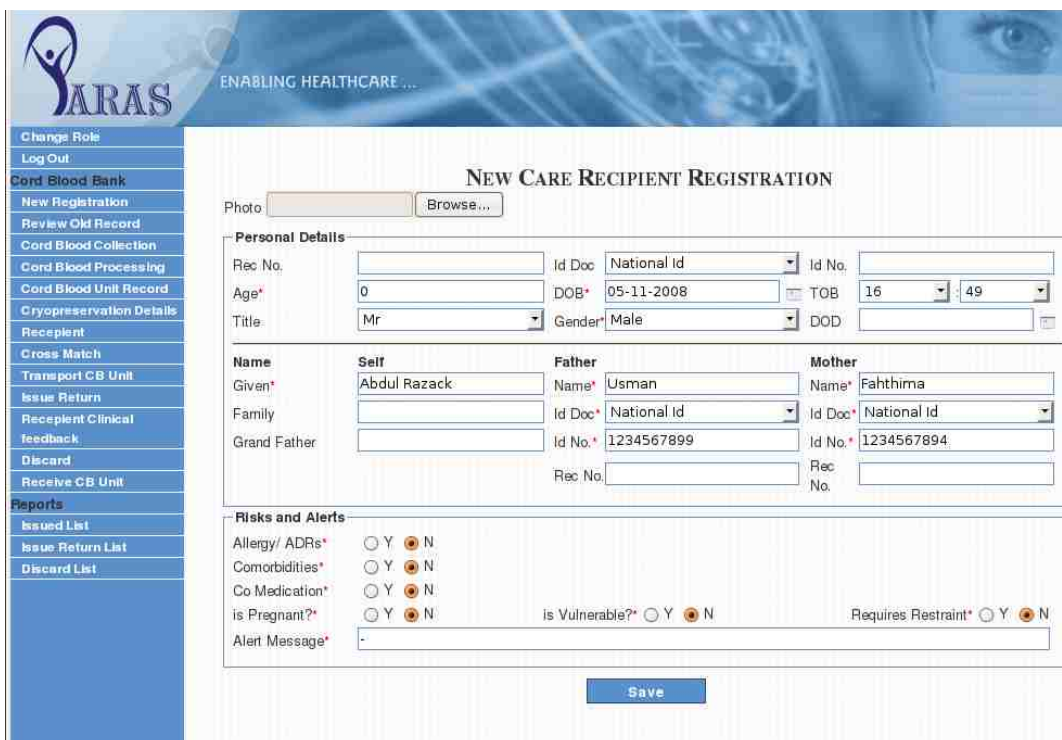
Cord blood is especially useful for patients who need a transplant quickly, patients who have a hard time to find matching bone marrow donor, and patients from racially or ethnically diverse communities who repeatedly have uncommon tissue types.

Srishti's Cord Blood bank functionalities include:

1. New care recipient (expectant mother) registration
2. Rapid registration of new born infant with automatic record association with mothers record
3. Review existing care recipient record
4. Cord blood collection and unique barcode generation, printing
5. Cord blood processing
6. Cord blood unit record, keeping and searching based on CBB ID, infant/mother record ID
7. Cryopreservation details with device interface, temperature recording, automatic alarm generation and action
8. Recipient (non self) registration
9. Cross matching
10. Transport CB unit
11. Issue return
12. Recieve CB unit
13. Reception clinical feedback
14. Discard

New care recipient (expectant mother) registration

This module registers new patients, checks their mother detail, if detail is not present request to register the mother first and the proceeds with the new registration. Once all the registration is done a new id is generated. then additional details are recorded.



ARAS ENABLING HEALTHCARE ...

NEW CARE RECIPIENT REGISTRATION

Photo

Personal Details

Rec No. Id Doc Id No.

Age* DOB* TOB

Title Gender* DOD

Name

	Self	Father	Mother
Given*	<input type="text" value="Abdul Razack"/>	Name* <input type="text" value="Usman"/>	Name* <input type="text" value="Fahthima"/>
Family	<input type="text"/>	Id Doc* <input type="text" value="National Id"/>	Id Doc* <input type="text" value="National Id"/>
Grand Father	<input type="text"/>	Id No.* <input type="text" value="1234567899"/>	Id No.* <input type="text" value="1234567894"/>
		Rec No. <input type="text"/>	Rec No. <input type="text"/>

Risks and Alerts

Allergy/ ADRs* ☐ Y ☒ N

Comorbidities* ☐ Y ☒ N

Co Medication* ☐ Y ☒ N

is Pregnant?* ☐ Y ☒ N

is Vulnerable?* ☐ Y ☒ N

Requires Restraint* ☐ Y ☒ N

Alert Message*

MATERNAL & INFANT SCREENING

Review existing care recipient record :
History is reviewed where all the maternal and infant history is stored and reviewed.

Consent : The preloaded consent form is uploaded which can be downloaded with just one click. This also has feature to upload a new signed and scanned consent form.

Maternal and Infant screening

The screenshot shows the 'MATERNAL & INFANT SCREENING' form. On the left is a sidebar menu with options like 'Change Role', 'Log Out', 'Cord Blood Bank', 'New Registration', 'Review Old Record', 'History', 'Maternal & Infant Screening', 'Consent Forms', 'Cord Blood Collection', 'Cord Blood Processing', 'Cord Blood Unit Record', 'Cryopreservation Details', 'Recipient', 'Cross Match', 'Transplant CB Unit', 'Issue Return', 'Recipient Clinical Feedback', 'Discard', 'Reissue CB Unit', and 'Reports'. The main form area is titled 'MATERNAL & INFANT SCREENING' and contains two sections: 'Mother's Screening Criteria' and 'Infant eligibility criteria'. The 'Mother's Screening Criteria' section includes fields for Age (25), HIV+ve/AIDS, Cancer, Medication Dependent Diabetes, Hepatitis B, Hepatitis C, Malaria, Had Organ Transplant, Sexually Transmitted Disease, Tattoo or Body Piercing within last 12 months, Leukemia, Hematopoietic Disease, Immunologic Disease, Tay Sachs, Sickle Cell Disease, and Thalassemia. The 'Infant eligibility criteria' section includes fields for Cord has three vessels, Extra digits, Abent thumb, Dysmorphic child, and Cord has three vessels. There is a checkbox for 'Is Surrogate Mother' and a 'Save' button at the bottom right.

CORD BLOOD COLLECTION

Cord Blood Collection: There is a special form for this purpose where in we can just enter all the collection details. This will generate a cord blood unit id and barcode.

The screenshot shows the 'CORD BLOOD COLLECTION' form. The sidebar menu is the same as in the previous form. The main form area is titled 'CORD BLOOD COLLECTION' and contains a 'Collection Details' section. This section includes fields for Donor Record Id (20), Donor Name (Abdul Razack), Donor Type (Autologous), Maternal Name (Fathima), Collection Date (05-11-2008), Collection Time (17:22), Collection Method (Collection), Collected Volume (50 ml), Time Zone (EST), Req Storage Temp (-89), CB Collected By (Syed kha), Bar code (Yes/No), and Adverse Reaction (Yes/No). There is a 'Save' button at the bottom right.

CORD BLOOD PROCESSING

Cord Blood Processing : This unit shows the complete cord blood processing details. If the unit id is not known then we can search the id with search option. If not found then we can have a new registration done. The details of the new registration is saved in the similar format.

The screenshot shows the 'CORD BLOOD PROCESSING' form. The sidebar menu is the same as in the previous forms. The main form area is titled 'CORD BLOOD PROCESSING' and contains a 'Processing Details' section. This section includes fields for CB Unit Unique ID, Search Unit Unique ID, Disease Testing (Human immunodeficiency virus type 1, Human immunodeficiency virus type 2, Hepatitis B virus, Hepatitis C virus, Human T cell lymphotropic virus type 1, Human T cell lymphotropic virus type II, Treponema pallidum (syphilis)), and HLA Typing (HLA-Class I-A, HLA-Class I-B, HLA-Class I-C, HLA-Class II-DQ, HLA-Class II-DB, CFU total number). There is a 'Save' button at the bottom right.

CROSS MATCH

Cross Match : Here the preferred recipient id is entered for a cross match. Once that id is tracked it is displayed on the monitor. The detail of CB unit is checked and saved for the recipient.

TRANSPORT CB UNIT


Transport CB Unit : There is a link to create new transport detail. Once that link is clicked, details can be entered and saved.

ISSUE RETURN

Issue Return : This has the option to return a CB unit. This has an option where in you need to enter the CB unit id then click the "Retrn Issue" button, thus the CB unit will be returned.

CB UNIT RECORD DETAIL

Cord Blood Unit Record : Here the complete record is shown. If the record is not present then we can click on the new cord blood record option fill in the details of mother and infant and store the same. Thus this can be retrieved with unit id as and when required.



PARAS

ENABLING HEALTHCARE

Home Abdul Plazack

Admin Password: 1234

Age 27

Sex Male

CORD BLOOD UNIT RECORD

CB Unit Unique ID : *

6

Search Unit Unique Id

Child Details

Reg.No : 20 Name : Abdul Plazack Uman ,

Total Nucleated Cell Count*

Total Nucleated RBC Count* X10⁶

NBC/CFUWBC*

Total CD34 +ve cells*

CFU total number*

CB unit viability*

ABO Group & RH Type*

Microbial culture status*

Mother Details

Reg.No : 19 Name : Fathima Suhara Abdul Rahman ,

HLA type*

Infant donor's ethnicity*

Infant donor's gender

Maternal risk factors


Maternal communicable disease status

Family medical history for transmissible genetic diseases

Consents

CRYOPRESERVATION DETAIL

Cryopreservation Details: In this form, Cryopreservation Details will be entered. Here Alarm SMS or Email will be sent according to the configured Service Provider Details.



YARAS

ENABLING HEALTHCARE

Page: 20

Gen Request of: 20

Age: 57

Gender: Male

Change Role

Log Out

Cord Blood Bank

New Registration

Review Old Record

History

Material & Instrument

Screening

Consent Form

Cord Blood Collection

Cord Blood Processing

Cord Blood Unit Record

Cryopreservation Details

Repackaged

Cross Match

Transport CB Unit

Issue Return

Repackaged Clinical

Incident

Discard

Reissue CB Unit

Reports

Report List

Issue Return List

Discard List

CRYOPRESERVATION DETAILS

CB Unit Unique ID : 5

* Search Unit Unique Id

Total Nucleated Concentration *

Hematocrit Range in % *

Method Of Freezing * Liquid Nitrogen

End-Point temperature of cooling

Storage Duration * 05-11-2008

Alarm Testing Details

Date and Time *	Response Type *
05-11-2008 17 : 31 <input checked="" type="checkbox"/>	Visual

Storage Temperature Details

Date and Time *	Storage Temperature *	Freezing Temperature *	Alarm (Yes/No) *	Alarm Action *
05-11-2008 17 : 31 <input checked="" type="checkbox"/>	-195	-196	<input checked="" type="radio"/> Yes <input type="radio"/> No	Corrected Temperature.

Alarm SMS Phone1 Send Alarm Email1 Send

Alarm SMS Phone2 Send Alarm Email2 Send

Alarm SMS Phone3 Send Alarm Email3 Send

RECIPIENTS LIST

Receipient : This gives an option to add a new receipient and his details.



ENABLING HEALTHCARE

Home

Get Receipts At 21

PDF

Generate

Account

Account Details

22 Y

Admin

21

Change Role

Log Out

Card Blood Bank

New Registration

Review Old Record

History

Internal & Refers

Scheduling

Consent Forms

Card Blood Collection

Card Blood Processing

Card Blood Unit Record

Cryopreservation Details

Receipts

Download

Receipts List

New receipt

Sl	Receipient Id	Unit	Receipient Name	Receipient Type	Reason For Referral	Referral Doctor	Ref. Class A	Ref. Class B	Ref. Class C	Ref. Class DR	Ref. Class DG	Ref. Class DD	Ref. Class DE	Ref. Class DF	Advance Payment	Status
1	1	2	Harsh	Non Self	Internal	Dr. A	A	A	A	A	A	A	A	A		Issued
2	2	6	Prasen	Non Self	Blood Requird	Self	A	A	A	A	A	A	A	A		Issued
3	3	3	Playsh	Non Self			A	A	A	A	A	A	A	A		Requested

RECEIPTS CLINICAL FEEDBACK

Reception Clinical Feedback : Here we have a link called new recipient clinical feedback which on clicking gives us option to create a new clinical feedback.

Recepients Clinical Feedback List

Sl No	Name	Age	Sex	Religion	DOB	Time of Arrival	Time of Discharge	Status	Address	Referral	Referral Date	Referral Time
1	2	Indian	01/01/2008	yes	-08	yes	OK	NO				
2	8	Plasma	02/02/2008	-08								

Sickle Cell Disease: ☐ Yes ☒ No
 Thalassemia: ☐ Yes ☒ No
☐ Is Surrogate Mother

Save

DISCARD CB UNIT

Discard : This form is for discarding a CB unit. Here we need to give the unit ID and the reason. Thus the form gets discarded.

DISCARD CB Unit

CB Unit Id: 7

Reason For Discard: Damaged Pack

Discard Date: 05-11-2008

Discard

RECEIVE CB UNIT

Receive CB Unit : The list of received CB units from current station is then displayed.

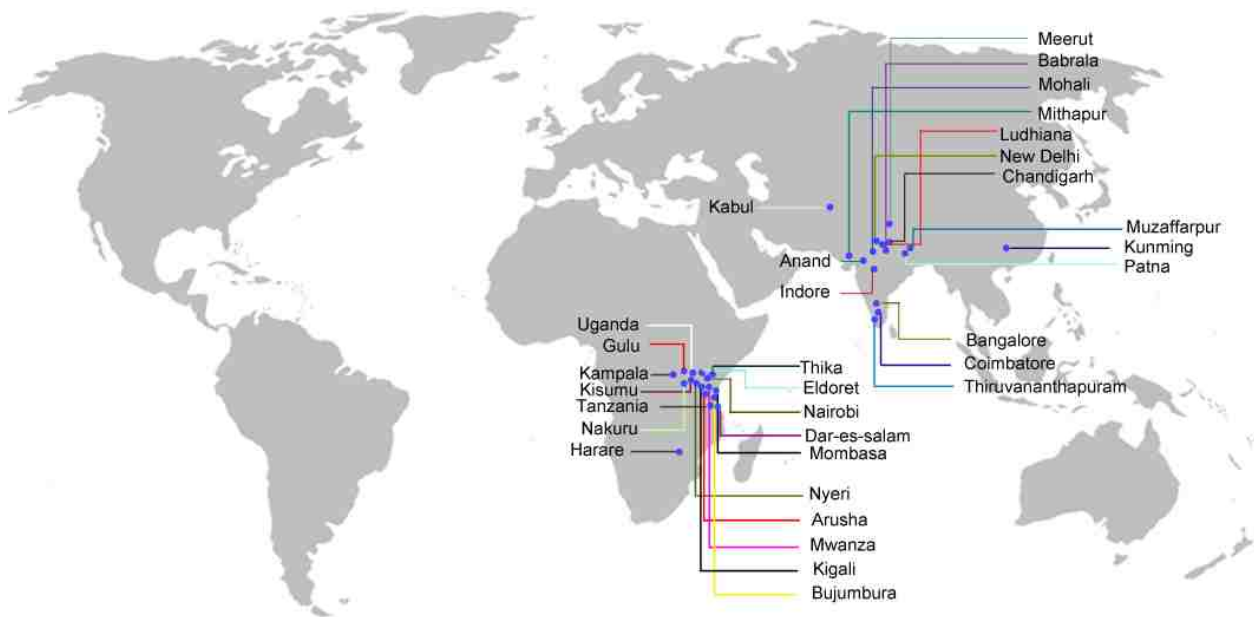
RECEIVED CORD BLOOD LIST FOR CORD BLOOD BANK2

Sl No	CB Unit Id	Name	Status	Received Date
1	7	Plasma	Received	05-11-2008

Received

Save

PARAS HEALTHCARE MANAGEMENT FOOT PRINT



A few accolades...

- Winner of eINDIA Health Summit Award 2012 in the category 'ICT initiative in Healthcare by the Private Sector'
- Placed among Top 100 small Business in the Year 2011 by Franchise India
- Placed in the NASSCOM Emerge Top 10 companies under the category of Emerge Products for the year 2010
- Honouree in the Technology Fast 500 Asia Pacific 2009 Program conducted by Deloitte
- Honoree in the NASSCOM EMERGE 50 Software category for the year 2009
- Honoree in the Technology Fast 50 India 2009 Program conducted by Deloitte
- "For demonstrating excellence and growth in the IT channel business" - Channel World, Fast Track 100 Awards, Honoree 2008
- "Consistently among the top 100 IT innovators in India" - NASSCOM Survey, 2007
- "One of the most innovative IT companies in India" - NASSCOM, 2005
- "Among the FIVE most promising Indian IT companies to look out for" - Information Week, 2005
- Rated SE AA by ONICRA Performance and Credit rating



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