

This form must be signed, submitted, and approved by the NMDP before any units can be imported into the U.S., or shipped within the U.S., due to U.S. Cord Blood Licensure requirements that became effective October 20, 2011.

GENERAL CORD BLOOD BANK (CBB) DESCRIPTION

Cord	d Blood Bank Legal Name:							
Cord	d Blood Bank Public Name:							
Cord	d Blood Bank Address:							
1.	Is your CBB a member of a If yes, specify which registry		no					
2.	What year did your CBB col	lect/process its first cord blo	ood unit (CBU)?					
3.	What year did your CBB pro	ovide its first unit for transpla	ntation?					
4.	How many units are current	ly in your CBB's inventory?						
5.	Is your CBB currently collec	ting new inventory? ye	es no					
6.	Complete the chart below to in the past three years.	list the number of units tha	t have been provided for trai	nsplantation				
	Calendar Year	# Domestically	# To Another Country					
7.	Where does your CBB list it Within a national regis BMDW Other:)					



PERSONNEL

8.	CBB Medical Director			
	Name:			_Degree:
	Title:			
	Address:			
	Phone:			
	Fax:			
	Licensed in your country? License num Enclose CV	ber:		
9.	CBB Coordinator (contact person for NMDP of	perations)		
	Name:	•		_Degree:
	Title:			
	Address:			
	Phone:			
	Fax:	– Email:		
	Is coordinator proficient in English? Yes			
10.	Backup CBB Coordinator			
	Name:			_Degree:
	Title:			
	Address:			
	Phone:			
	Fax:			
	Is backup coordinator proficient in English?	Yes	No	
11.	CBB Laboratory (Processing Facility) Director	r (if differer	nt from C	CBB Medical Director)
	Name:	•		_Degree:
	Title:			
	Address:			
	Phone:			
	Fax:	_ Email:		
	Enclose CV			



15

National Marrow Donor Program Investigational New Drug (IND) Qualification Form for Cord Blood Bank

12.	Does your CBB currently document and define the qualifications,	respons	sibilities,	training,
	continuing education, and continued competency of its staff?	yes	no	

13.	Does your	CBB	have a p	rocess to	o document	training fo	or individuals	who	collect	cord	blood
	units?	yes	no								

MATERNAL DONOR CONSENT/SCREENING/TESTING

Have maternal donors ever been:

14.	Have all maternal donors always signed	a conser	nt form at	(or near) th	ne time of	cord blood
	collection that specified the unit would be	e collecte	d, tested,	, stored and	d intended	for use in
	unrelated donor transplantation?	yes	no			

 	To material delicit ever been				
•	Coerced (forced) to donate cord blood units?	yes	no		
•	Paid to donate cord blood units?	yes	no		
•	Charged fees for any aspect of the collection,	donation,	or storage of the unit?	yes	no

16. Is a maternal donor questionnaire currently completed (within six months prior to collection or one month after) to assess high risk behaviors?
ves
no

Enclose copy of questionnaire and associated criteria used to list or defer/discard the unit (both documents must be in English)

17. Is a family medical health history (infant's mother, father and siblings) currently completed (within six months prior to collection or one month after)?

yes no

Enclose copy of questionnaire and associated criteria used to list or defer/discard the unit (both documents must be in English)

- 18. Is a review of readily available delivery/medical records currently conducted for evidence of relevant communicable disease and is this review documented? yes no
- 19. Has maternal infectious disease marker (IDM) testing always been performed on a sample collected from the mother within (before or after) seven days of donation? yes no
- 20. Using the list below, indicate which IDM testing of the maternal donor and cord blood unit is currently performed. Note: All tests specified are not required for current and previous inventory. See next question for minimum required tests.

Test	Maternal Testing	Unit Testing
Hepatitis B Surface Antigen		
Antibody to Hepatitis B core		
HBV NAT		
Antibody to Hepatitis C		
HCV NAT		
Antibodies to HIV 1 and 2		
Antibodies to HIV 1 and 2 + O		
HIV p24 antigen		



HIV NAT	
Antibodies to HTLV I/II	
CMV Antibody Total	
CMV Antibody – Other:	
Syphilis	
West Nile Virus NAT	
T. Cruzi Antibody (Chagas Disease	
EBV Antibody	
Toxoplasmosis Antibody	
Other:	

21.	Has maternal	IDM testing	(for all	units in you	ır inventory)	always	included	testing f	for:
-----	--------------	-------------	----------	--------------	---------------	--------	----------	-----------	------

•	Antibody to HIV 1 /2	yes	no
•	HIV antigen (p24 or NAT)	yes	no
•	Hepatitis B surface antigen	yes	no
•	Hepatitis C Antibody	ves	no

NOTE: These tests are required for all CBU shipments facilitated through the NMDP IND.

OPERATIONS (COLLECTION, PROCESSING, CRYOPRESERVATION AND STORAGE)

- 22. Do all cord blood units and their related records (including the medical history of the mother and family, maternal testing, unit testing; and processing, cryopreservation and storage records) currently undergo review by a physician (or designee) prior to making the unit available for listing?

 yes

 no
- 23. Are the lot numbers of all materials, and reagents used in the manufacturing of the unit currently recorded?

 yes

 no
- 24. Is the equipment used in the manufacturing of the unit currently recorded? yes no
- 25. Have all of the collection and processing bags used by your CBB always been approved for human use? yes no
- 26. Have all of the anticoagulants, diluents, media and cryoprotectants (listed in the next four questions) used by your CBB always been approved for human use? yes no NOTE: This does not include DMSO.
 If no, specify which are not approved:



Anticoagulant	Used in the past	Used currently
Heparin		
Citrate Phosphate Dextrose Adenine Solution		
Citrate Phosphate Dextrose Solution (CPD)		
Acid Citrate Dextrose (ACD)		
Other(s):		

28.	Indicate which of the following diluents are used during ex-utero collection (check all tha
	apply)

Diluents	Used in the past	Used currently
Sodium Chloride 0.9%		
Dextrose 5%		
Other(s):		

29. Indicate which media are used (check all that apply)

Media/Methods	Used in the past	Used currently
Hydroxyethel Starch		
Dextran		
Prepacyte®-CB		
Other(s):		

30. Indicate which cryoprotectants are used during cryopreservation (check all that apply)

Used in the past	Used currently
	Used in the past

- 31. Has your CBB always tracked the product from the donor to the patient and from the patient to the donor? yes no
- 32. What is the maximum time allowed (in hours) from unit collection to cryopreservation?

Time Allowed	Used in the past	Used currently
Less than 48 hours		
Less than 72 hours		
Other(s):		



	•						
33.	Have any units ever been stored > -135° C?	res no					
34.	When did your CBB adopt the storage temperature	of ≤ -150° C? month	n/year				
35.	Is an electronic temperature alarm monitoring system	m currently in place?	? yes	no			
36.	Describe the method(s) used to process units (chec	k all that apply)					
	Methods	Used in the past	Used	currently			
	Red Cell Depletion Only (RBC reduced)			<u> </u>			
	Plasma and RBC Reduced						
	Volume Reduction Only (plasma reduced)						
	Density Separation (density enriched)						
	None						
	Other(s):						
37.	Indicate current long-term storage methods: Liquid LN2 Vapor LN2						
38.	Indicate the type of container used to store the units	(check all that apply	y)				
	Container	Used in the past	Used	currently			
	Cryobags						
	Other(s):						
39.	Describe the freezing method (check all that apply)						
	Freezing Method	Used in the past	Used	currently			
	Manual, "Dump" freezing			-			
	Controlled rate freezing						
	Other(s):						
40.	Has your CBB ever stored CBUs with non-human so tissues? yes no	ources of blood, bloo	od compo	onents or			
41.	How does your CBB currently prevent potential transuntested CBUs to units that have been qualified for			e agents ir			
	a. Units are stored with overwrap		yes	no			
	b. Untested units are stored in vapor phase		yes	no			
	c. Untested units are stored in separate freezer		yes	no			
	d. Other, describe:		yes	no			
	If there is a different process for CBUs with confirme (except CMV), describe:	ed positive infectious	disease	results			



42. Provide the name of the laboratory that performs initial HLA typing on your					your units:		
		Enclose a copy of HLA lab accurrent certification letter or c					slude
		LOOD UNIT TESTING					
43.	Indi	cate microbial tests that have	been or a	re currently pe	erformed on a	II units.	-
		Sterility Cultu	ıres		Used in the past	Used currently	
		cterial culture (required for all					
		ngal culture (if all units were r te fungal testing was impleme					
44.	Has	your CBB ever stored any ur yes no	nits availab	ole for transpla	int that had a	positive microb	ial test?
	If ye	es, specify:					
	NO	ΓΕ : NMDP will not distribute υ	ınits that h	ave tested pos	sitive for infed	ctious agents.	
45.	a.	Is hemoglobinopathy testing before the unit is listed?	g currently yes	performed on no	each cord blo	ood unit/infant d	onor
	If te	sting is performed, indicate if	the unit is	deferred / reje	ected if the re	sults are positiv	e.
		Test	No, not tested	Yes, teste		Yes, tested & Co	BU not
S	Sickle c	cell trait (heterozygous)					
S	Sickle c	ell disease					
Т	halass	semia trait					
Т	halass	semia disease					
S	Severe	α thalassemia disease					
	b.	If testing is not routinely per testing upon request?	formed at yes	time of CBU p	processing, is	a sample availa	able for
	C.	If testing is currently not per history of:	formed, is	the mother qu	uestioned spe	ecifically about h	er family
		Sickle cell disease Thalassemia	yes yes	no no			



46.	Are the laboratories that currently perform testing (ABO/Rh typing, infectious disease marker
	testing, nucleated cell counts, sterility testing) on your maternal donor and/or cord blood units
	licensed, accredited, or authorized to operate by a competent national authority?

yes no

	yes 110
47.	U.S. transplant centers are required to have HLA-A, B and DRB1 confirmatory/verification typing of the unit performed at an EFI, ASHI or CAP-accredited HLA laboratory. Can your CB arrange for confirmatory/verification typing to be done at an accredited laboratory?
	yes no
	If yes, provide the name of the HLA laboratory:
	Enclose a copy of HLA lab accreditation—include current certification letter or documen verifying HLA accreditation.
	If no, confirm that your CBB will ship a contiguous segment or other sample to an HLA

laboratory designated by the NMDP in the U.S., if requested by the NMDP.

yes no

48. Does your CBB currently provide a cord blood unit report(s) that includes at least the following?

Unique identifier	yes	no
HLA typing	yes	no
ABO/Rh type	yes	no
Infant date of birth or CBU collection	yes	no
Infant gender	yes	no
Microbial testing results	yes	no
Volume (mL)	yes	no
Maternal infectious disease marker	yes	no

Enclose a copy of cord blood unit report(s) in English



PROCEDURES

49. Indicate in the chart below whether your CBB currently has one or more procedures or documents (followed by your personnel) that describe the following activities.

NOTE: A specific procedure is not required for each item listed below, as long as these topics are addressed overall in some way in the CBB procedures or documents.

NOTE: NMDP is not requesting a copy of your procedures.

PROCEDURE	YES	NO	COMMENTS
Administrative Processes			
Contracts or agreements			
(examples: collection sites, labs, suppliers)			
Emergency back-up for critical functions			
(examples: computer, testing, storage)			
Confidentiality requirements			
Collection Processes			
Qualification of collection facilities			
Qualification of collection personnel / training			
Equipment Management			
Preventive maintenance and calibration			
requirements and frequency			
Instructions for use of equipment			
Equipment qualification			
Facility Management			
Sanitation, cleaning, environmental			
Handling of waste			
Space requirements and security / access			
Supplies / Materials Management			
Supplies / materials receipt, inspection,			
quarantine and release for use			
Acceptance criteria for use			
Temperature requirements / monitoring, as			
needed (example: reagents, test kits, etc)			
Donor Qualification / Suitability			
Consent process			
Maternal medical and high risk behavior			
screening requirements			
Family medical history requirements			
Infectious disease testing profile, sample			
collection / timing and acceptability criteria			
Delivery collection and acceptability criteria			
Interpretation of medical and high risk behavior, delivery and testing information			
Medical director review of donor suitability			
ividucal director review of donor suitability			



PROCEDURE	YES	NO	COMMENTS
	1E3	NO	COMMENTS
Product Processing / Suitability Transport time and temperature requirements of unprocessed cord blood			
Unit receipt and acceptability criteria			
Processing time and temperature			
Processing methodology			
Sterility culture methodology and acceptability criteria			
Aliquot collection and storage requirements (examples: samples, attached segments)			
Product testing and acceptance criteria (examples: TNC, CD34+, HLA)			
Product freezing methodology			
Product storage temperature requirements and temperature monitoring during storage			
Review of product suitability / criteria for release of product to available inventory			
Storage of units untested for IDMs or with a positive IDM to protect against transfer of potentially infectious agents to qualified inventory			
Labeling and warning labels / statements			
Initial product labeling requirements when product stored			
Final product labeling requirements when released to ship			
Transportation and Shipment			
Unprocessed cord blood transport container validation requirements and testing			
Cord blood dry shipper validation requirements and testing			
Dry shipper charging and preparation for shipment			
CBU release specifications to ship			
Shipment arrangements / couriers			
Packaging CBU for shipment			
Accompanying instructions requirements for shipment and unit			
Final product disposition (where it was shipped and recipient ID)			
Policy for conditions when or if unused cryopreserved units can be returned to CBB inventory.			



PROCEDURE	YES	NO	COMMENTS
Training Process			
Staff qualification; procedure / task training and documentation requirements			
Documents Process			
Procedure / forms development, review and approval system			
Procedure / forms implementation, archive and storage system			
Out-life Conference			
Quality Systems Complaint / incident system (to document product and service problems and resolution)			
Corrective action system			
Internal audit requirements and schedule			
System for reporting product deviations or recipient serious adverse events			
Quality Plan			
December Management			
Records Management			
Process for creation, modification, correction, review of, and access to records			
Records retention (storage) criteria and timeframes defined			
System to store records on-site and/or off- site and records retrieval			
Electronic back-up for computerized records, if applicable			

Current Records

a.	Are records	of each ma	nufacturing	step created	at the time	the activity is	s performed?
	yes	no					

- b. Do records include the type of task performed, the identity of the individual performing the task, and when the task was performed? yes no
- c. Are records legible (readable), indelible (permanent), complete, kept indefinitely (forever) and retrievable (able to find) in a reasonable period of time?

 yes no
- 51. Will your CBB report product deviations and recipient serious adverse events (that involve cord blood units under the NMDP IND) to the NMDP? yes no **NOTE**: The NMDP will report these events to the WMDA SEAR/SPEAR database.



LABELING

52.	Does your CBB's current label affixed to the cord blood unit include,	, at a mını	mum?	
	A unique product identifier	yes	no	
	 Proper name of the product as defined in the Circular of Information (COI) or equivalent 	yes	no	
53.	Is the name and address of the CBU manufacturer and the storage to affixed to the current CBU label, or included in accompanying record	•	re inforn yes	nation no
	Enclose sample (or photo) of label affixed to the unit. If not in I translation.	English, e	enclose a	ı
	Enclose a copy of all accompanying records/paperwork sent w	ith the u	nit.	
54.	Are all labels affixed to CBUs (including those in storage) in English translation be sent with the CBU? yes no	? If not, v	vill an Er	glish
55.	NMDP will provide your CBB/registry with the paperwork required to U.S. Verify that your CBB will use this information to accompany the shipment. yes no			of
SHI	PPING			
56.	Is the cord blood label and associated paperwork reviewed by two in one individual and a validated electronic equivalent) to verify that the and correct at the time the unit is shipped? yes no			,
57.	Are dry shippers validated to ensure they maintain a temperature of beyond the expected arrival time at the receiving facility?	² ≤ -150° no		t 48 hours
58.	Do all dry shippers used by your CBB contain an electronic tempera yes no	iture data	logger?	
59.	Are the contents of dry shippers limited to one CBU? yes	no		
60.	Provide the name of the shipping company that is used to ship units You may indicate that your national registry makes these arrangements	•	ur CBB to	the U.S.



ACCREDITATIONS/COMPLIANCE WITH OTHER AGENCIES

- 61. Are there government regulations regarding cord blood banking in your country? yes no
- 62. Indicate organization(s) that oversee (license, accredit and/or certify) your CBB operations, and provide on-site inspection information in the table below.

Organization	Oversee CBB's operations?	inspection?	Frequency (e.g. every year)	Last inspection
	Y/N	Y/N		date
NetCord-FACT				
AABB				
ISO (specify):				
National Donor Registry				
Local/National Government Agency:				
Other:				
Other:				

Enclose copy of license, accreditation or certification from organization(s)

63. Has your CBB been placed on any warning, probation or suspension in the past two years? yes no

If yes, enclose a description.

<u>ADMINISTRATION</u>

- 64. Verify that your CBB (or its parent organization or national registry) has agreements in place with every entity that performs any step in the cord blood unit manufacturing process.

 yes no

 Manufacturing means recovery, processing, storage, labeling, packaging and/or distribution of the unit.
- 65. Verify that your CBB (or its parent organization or national registry) maintains professional and general liability insurance coverage. This coverage may be privately held, or provided by your national government.

 yes

 no
- 66. The NMDP is required by federal law to obtain your institution's tax information and verification for payments the NMDP will send to your center. Please complete the following forms: 1) The enclosed U.S. Internal Revenue Service (IRS) Form W-9 for all U.S. CBBs. 2) The enclosed U.S. Internal Revenue Service (IRS) Form W-8 for all non-U.S. CBBs. The purpose of these forms is to provide NMDP with your correct taxpayer identification number (TIN) and tax reporting status. If you have questions on how to complete the form, please email nmdp.org.



REQUIRED ATTACHMENT CHECKLIST

Ensure the following attachments are enclosed with qualification form submission:

Attachment	Refer to Question #	✓
Medical Director CV	8	
Laboratory Director CV (if different from Medical Director)	11	
Maternal Donor Risk Questionnaire (MRQ)	16	
Bank Action Form or "tool" to assess if cord blood unit is acceptable based on Maternal Donor Questionnaire (Note: not required to enclose if deferral reasons specified in maternal donor questionnaire document)	16	
Infant's Family Medical History Questionnaire, if performed	17	
Bank Action Form or "tool" to assess if cord blood unit is acceptable based on Infant Family Questionnaire (Note: not required to enclose if deferral reasons specified in family medical history questionnaire document)	17	
HLA laboratory accreditation (e.g. EFI or ASHI) for laboratory that performs initial HLA typing	42	
HLA laboratory accreditation (e.g. EFI or ASHI) for laboratory that performs confirmatory/verification typing	47	
Cord Blood Unit Report	48	
Sample label affixed to cord blood unit	53	
Sample of accompanying paperwork sent with cord blood unit	53	
Copy of license, accreditation or authorization from organization(s) that oversee (authorize, license, accredit and/or inspect) CBB operations in your country	62	
Description of warning, probation or suspension findings from accrediting organization (if applicable)	63	
IRS form W-8 or W-9	65	



submit to NMDP on your behalf.

National Marrow Donor Program Investigational New Drug (IND) Qualification Form for Cord Blood Bank