National Marrow Donor Program® 23rd2nd Edition Standards And

Glossary Effective Date: May 1, 2014 January 1, 2016

Notice and Disclaimer

NMDP Standards

These standards apply to activities performed by National Marrow Donor Program[®] (NMDP) participating centers and include processes from donor recruitment to distribution and administration of cellular therapy products facilitated through NMDP. These standards set forth only the basic guidelines minimal requirements for programs working through the NMDP to facilitate hematopoietic cell transplants. These standards do not set forth all that may be required of a facility or individual to conform to NMDP membership requirements, federal or state laws or regulations (or non-U.S. equivalent) or the standard of care prevailing in the relevant community. Each facility and individual must determine and follow any additional laws, regulations, practices and procedures that apply in their particular community. The NMDP disclaims all representations or warranties, expressed or implied, that compliance with the NMDP Standards will fulfill the requirements of all applicable federal or state laws and regulations (or their non-U.S. equivalent) or the standard of care prevailing in the relevant of the relevant community.

The nomenclature throughout these Standards is consistent with ISBT 128 terminology published by ICCBBA, Inc. However, acronyms such as HPC(CB), HPC(A) and HPC(M) are not intended to be used in labeling process or on product labels.

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NATIONAL MARROW DONOR PROGRAM®

23rd2nd EDITION STANDARDS

1.0000 General

1.1000	These standards apply to activities performed by National Marrow Donor Program [®] (NMDP) participating centers and include processes from donor recruitment to distribution and administration of cellular therapy products facilitated through NMDP.
<u>1</u> .1000	Centers shall have adequate staff, resources, space, equipment and supplies to perform and manage activities.
<u>1.2000</u>	Centers shall establish and maintain written policies and procedures to define activities.
1. <u>3</u> 2 000	Participating programs and support laboratories shall comply with all applicable federal and governmental laws and regulations.
1. <u>4</u> 3000	U.S. Centers participating in human subject research must hold a Federalwide Assurance (FWA) with the Office of Human Research Protection (OHRP). (See Resources).
	1. <u>4</u> 3100 Research protocols that include human subjects shall be approved by a designated institutional review board (IRB).
	1.43110 Clinical research protocols and the informed consent forms for data and sample collection and submission shall be approved by an institutional review board (IRB) and appropriate regulatory agency, if applicable.
	1. <u>4</u> 3200Non-U.S. centers shall provide evidence of compliance with Independent Ethics Committees (IEC) within their country.
1. <u>5</u> 4000	Centers shall use laboratory(ies) certified by Centers for Medicare & Medicaid Services (CMS) (or non-U.S. equivalent) for all clinical tests required by NMDP.
1. <u>6</u> 5 000	Participating programs and support laboratories shall comply with these Standards, as well as NMDP policies and procedures.
	 1.65100 Participating programs shall participate in an NMDP or other quality program.
	1.65200 Participating programs shall participate in the NMDP Continuous Process Improvement (CPI) program, when applicable.

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	1.65300 Participating programs shall complete their	network ren	ewal annually.
1. <u>7</u> 6 000	Director of a participating program shall be responsib these Standards.	ble for comp	liance with
1. <u>8</u> 7000	Center medical director shall be a licensed physician experience to perform and/or supervise defined center		training and
	1.87100 Any responsibility(ies) of the cen be fulfilled by a designated center physician		director may
	1. <u>8</u> 7200 Center medical director is respon physician designees are trained and qualifie		uring that
	1.87300 Center physicians shall participate regularly related to the field of hematopoietic cell col		
1. <u>9</u> 8000	Significant changes in personnel, facilities and/or sup reported promptly to the NMDP in accordance with N Criteria.		
1. <u>1</u> 9000 <u>0</u>	Participating programs shall maintain a system of stri records to protect the privacy of potential donors, dor		-
1. <u>1</u> 1 0000	Staff and volunteer training, continuing education, and for relevant skills shall be documented.	d continued	competency

2.0000 Criteria for Participating Donor Centers

2.1000 Facility Characteristics

2.1100	Center shall have experience in the management of blood, apheresis or marrow donors, including education, counseling, confidentiality issues and medical screening.
2.1200	Center shall have a private space for donor counseling sessions.
2.1300	Center shall have a secure information management system and shall merge data according to NMDP requirements.
2.1400	Center shall have written agreement(s) defining roles and responsibilities with participating apheresis and/or marrow collection center(s).
<u>2.1500</u>	Center shall be registered with FDA for applicable manufacturing functions.
2.2000	Medical Director

2.2100 Center shall have a medical director who is a licensed physician qualified by training and experience to evaluate and determine donor medical suitability and supervise donor management.

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			The medical director or physician designee shall determine donor medical suitability.
	2.2200	Center med eligibility c	lical director shall be responsible for interpretation of NMDP criteria.
2.3000 Personnel			
	2.3100	Center shal	ll designate a coordinator to work with the NMDP.
		2.3110	Center shall provide staff for each working day and coverage for emergencies.
2.4000) Su	pport Service	5
	2.4100	Center shal	Il use the following facilities for NMDP activities:
		2.4110	HLA typing laboratory(ies) accredited by the American Society for Histocompatibility and Immunogenetics (ASHI), the European Federation for Immunogenetics (EFI), and/or the College of American Pathologists (CAP) for HLA typing required by NMDP.
		2.4120	Laboratory(ies) that perform eligibility testing for evidence of infection due to relevant communicable disease agents must use donor screening tests that the Food and Drug Administration (FDA) has approved, licensed or cleared for such use and testing shall be performed in accordance with the manufacturer's instructions (See Resources).
		2.4130	Blood Bank licensed by or registered with the FDA, (or non-U.S. equivalent) for collection of autologous blood.
2.5000) Pa	olicies and Pro	cedures
	2.5100	Center shal volunteer d	Il maintain written procedures and policies for the management of lonors.
3.0000 Criteria for Participating Network Centers that Perform Adult Donor Recruitment Activities			
3.1000) Ce	enter Characte	ristics
	3.1100		Il have experience in adult donor recruitment activities, including confidentiality issues and preliminary donor evaluation.
	3.1200	Center shal	ll recruit new donors in accordance with priorities of the NMDP.
3.1300 Center shall have a written agreement defining roles and responsibilities with each NMDP donor center that has agreed to accept the recruited HLA-typed			

donors.

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	,	2 1 400	Conton -h. 11	mompit domano for in during 1	a the De The Metel D	a at a torus (R
		3.1400		recruit donors for inclusion only	in the Be The Match Re	egistry°.
3.2	2000		Medical Director			
	2	3.2100		have access to a donor center med donor evaluation.	dical director for assista	ance with
3.3	8000		Personnel			
	3	3.3100	Center shall o	designate a coordinator to work v	with the NMDP networl	k.
	3	3.3200	Center shall h	have staff sufficient to perform re	equired activities.	
3.4	1000		Policies and Proce	edures		
		3.4100	Center shall r volunteer dor	maintain written policies and pro- mors.	cedures for the recruitn	nent of
4.0000	(Crite	ria for Participa	ating Cord Blood Banks		
4.1	000		Bank shall maintai (See Resources).	in accreditation by AABB, FACT	-JACIE, and/or NetCon	rd-FACT
<u>4.2</u>	2000		Bank shall follow l	NMDP Participation Criteria.		
Fa	cility	Chare	acteristics			
	4	1.1100	Bank shall be	e registered with the FDA.		
	4	1.1200	Bank shall ha	ave experience in cord blood reer	witment.	
	4	1.1300	Bank shall ha	ave adequate and secure facilities	for manufacturing HP	С(СВ).
	4	1.1400	Bank shall ha	nave written agreements to collect	cord blood.	
	/	1.1500	Bank shall m FACT (See R	naintain accreditation by AABB, I Resources).	FACT JACIE, and/or N	letCord-
4.2	2000		Medical Director			
		4.210	transplantatio	al director shall have postdoctoral on, blood or tissue banking, basic natology or cryobiology.		
		4.220		al director shall be responsible for and biologic mother for evidence on.		
		4.230		al director shall be responsible for nd follow-up of the potential donc		

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		development of the procedures for the selection and release of the unit.	e collection, processing, testing, banking,
4.3000	Pers	onnel	
4.3100 E	Bank shall	designate a coordinator to work with	the NMDP.
		have adequate trained and competen PC(CB) manufacturing and sample :	t personnel available to perform tasks management.
4	1.3300		pendent Quality Unit to audit, monitor, and as defined in facility specific procedures.
<u>4.4000</u>	Sup	port Services	
4	1.4100	Bank shall use the following facilitie	s for NMDP activities:
4	l.4110		ed by the American Society for tics (ASHI), the European Federation for ollege of American Pathologists (CAP) for
4	l.4120	relevant communicable disease agen FDA has approved, licensed or clear	ty testing for evidence of infection due to ts must use donor screening tests that the ed for such use and testing shall be unufacturer's instructions (Sce Resources).
4	1.4130	by Centers for Medicare & Medicaid	d by an organization granted deemed status Services (CMS) or non-U.S. equivalent Commission for the Accreditation of Birth
4.5000	Poli	cies and Procedures	
	4. 5100	Bank shall have written procedures f	or the qualification of cord blood collection
	4.5200	1	or recruitment, donor selection, obtaining affectious disease marker testing, and for eling, storage and transportation.
	4.5300	-	procedures for the release and issue of inventory of unused eryopreserved units.
0000 (C <mark>riteria</mark> f	or Participating Marrow Colle	ction Centers
5.1000	Fac	ility Characteristics	

5.1100 Center shall be accredited by an organization granted deemed status by Centers for Medicare & Medicaid Services (CMS) or non-US equivalent.

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	5.1200	Center shall have an experienced team times in the past three years at the cent	that has collected HPC(M) at least three er.
	5.1300 Center shall have written agreement(s) defining roles and responsibilities with participating donor center(s).		
5.2000	2000 Medical Director		
	5.2100	Center medical director shall have post collection or transplantation.	doctoral training in hematopoietic cell
	5.2200	Center medical director shall have at le procedure.	east one year experience in the collection
	5.2300	Center medical director shall be respor evaluation of the donor for risks of dor transmissible by transplantation.	
5.3000) Per	rsonnel	
	5.3100	Center physician performing the HPC(least 10 prior collections of HPC(M) for collections in the previous three years. aspiration (physician, nurse, technician training in HPC(M) collections for tran	or transplantation with at least three Any person assisting in the marrow a) shall have documented adequate
	5.3200	Center shall provide daily and emerger coordinator(s), sufficient in number to	ncy coverage by designated meet the needs of the center's activities.
	5.3300	Center shall provide anesthesia under s anesthesiologist- or certified nurse ane	supervision of a licensed, board-certified sthetist.
	5.3400	Physician responsible for the HPC(M) operating room privileges at the collect	
5.4000) Suj	pport Services	
	5.4100	Center shall have a surgical operating	room and a medical intensive care unit.
	5.4200	Center shall have capability to perform fashion.	NMDP HPC(M) collections in a timely
	5.4300	Center shall have irradiated and leukor the event that the use of allogeneic blo	1
5.5000) Pol	licies and Procedures	
	5.5100	Center shall maintain written procedur of HPC(M).	es for the collection, testing and labeling

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5.5200	Center medical director or the physician performing the collection shall perform and/or review a complete medical evaluation of the donor to determine if the donor is an acceptable candidate for HPC(M) collection.
5.5300	Center shall verify that the donor has autologous red cell units available prior to the HPC(M) collection appropriate to the anticipated volume of HPC(M) to be collected.
	5.5310 Use of allogeneic blood shall be avoided unless deemed medically necessary by the collection physician.
5.5400	Physician responsible for the collection shall be present for the duration of the HPC(M) collection.
5.5500	Donor shall be admitted and discharged from the collection center the same day unless the medical status precludes it.
	5.5510 Physician shall be responsible for determining that the donor's health is appropriate for discharge.
5.5600	At time of discharge, the center shall provide to the donor post-donation care instructions with contact names and phone numbers.

6.0000 Criteria for Participating Apheresis Collection Centers

6.1000 Facility Characteristics

- 6.1100 Center shall be registered with the FDA.
- 6.1200 Center shall have experience in the collection of cellular components by apheresis, and shall have performed at least three collections of mononuclear cells by apheresis in the past year.
- 6.1300 Center shall have written agreement(s) defining roles and responsibilities with participating donor center(s).

6.2000 Medical Director

- 6.2100 Center shall have a medical director who is a licensed physician qualified by training and experience to supervise mononuclear cell collections:
 - 6.2110 Center medical director shall have at least one year experience in the collection procedure.
- 6.2200 Center medical director shall be responsible for reviewing the medical evaluation of the donor for risks of donation and evidence of disease transmissible by transfusion or transplantation.

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6.3000	Pers	onnel	
	6.3100	Center shall	designate a coordinator to work with the NMDP.
	6.3200	mononuclear	have apheresis collection staff experienced in the collection of r cells and in the management of apheresis donors including those venous catheters.
	6.3300	licensed phy	on of mobilization agents shall be under the supervision of a sician experienced in their administration and in the management of as in persons receiving these agents.
	6.3400	A licensed pl central venor	hysician qualified by training and experience, shall place any us catheters.
6.4000	Supp	port Services	
	6.4100		use a laboratory with documented proficiency for measuring the CD34-positive cells in the component collected.
	6.4200	Center shall pharmaceutic	have appropriate apheresis equipment, supplies and cals.
	6.4 <u>2</u> 300	by Centers for	use a hospital accredited by an organization granted deemed status or Medicare & Medicaid Services (CMS) or non-U.S. equivalent at of central venous catheters.
6.5000	Poli	cies and Proc	edures
	6.5100	mobilizing a collection, te	maintain written procedures and policies for donor evaluation, gent administration, and management of adverse events, and for the sting, storage, labeling, and transport of hematopoietic cells and for nce of apheresis equipment.
	6.5200	Center shall emergency n	have a process for treating donor adverse events and providing for nedical care.
	6.5300		maintain written procedures to prevent or minimize adverse effects ministration during apheresis.
6.5400 Center shall have a written policy on peripheral venous access assess placement of central venous catheters.			
		6.5410	Central venous catheters shall only be used when peripheral venous access is not deemed feasible after skilled assessment or cannot be obtained or has failed.
		6.5420	Placement of central venous catheters shall require a written justification.

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6.5430 Adequacy of line placement shall be verified prior to use.

7.0000 Criteria for Participating Transplant Centers

7.1000 Facility Characteristics

- 7.1100 Center shall be accredited by an organization granted deemed status by Centers for Medicare & Medicaid Services (CMS) or non-U.S. equivalent.
- 7.1200 Center shall have an experienced team that has performed allogeneic transplants for at least 10 different patients per year.
 - 7.1210 Centers performing pediatric transplants shall have a transplant team trained in the management of pediatric patients.
- 7.1300 Center shall have a designated inpatient unit that minimizes the risk of infection.
- 7.1400 Center shall have a designated process area for outpatient evaluation and treatment that reduces the risk of transmission of infectious agents and is available 24 hours per day, seven days per week.
- 7.1500 Center with more than one patient care unit shall be considered a single transplant center if the patient care units demonstrate functional unity.
 - 7.1510 If the patient care units are located in more than one institution, at least one of the institutions shall satisfy all transplant center participation criteria. Patient care units at the other institutions shall have performed allogeneic transplants for at least five different patients per year.

7.2000 Medical Director

7.2100	Center medical director shall be board certified (or non-U.S. equivalent) in one or more of the following specialties: Hematology, Immunology, Medical Oncology or Pediatric Hematology/Oncology.
	7.2110 Non-board certified physicians who completed medical training prior to 1985 may serve as medical directors if they have documented experience in the field of hematopoietic cell transplantation extending over ten years.
7.2200	Center medical director shall have had at least two years of experience as an attending physician responsible for clinical management of allogeneic transplant recipients in the inpatient and outpatient settings.
7.2300	Transplant center medical director shall be responsible for search management activities and protecting the safety of the recipient.

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7.2400	Center shall have at least two attending physicians, one of whom may be the
	medical director., who are licensed and qualified by training and experience in
	allogeneic hematopoietic cell transplantation.

- 7.2410 Adequate clinical training in allogeneic hematopoietic cell transplant shall be defined as a minimum of one year experience in the management of transplant recipients in both the inpatient and outpatient settings.
- 7.2420 Attending physicians should shall be board certified (or non-U.S. equivalent) or eligible as specified in 7.21040.

7.3000 Personnel

- 7.3100 Center shall provide daily and emergency coverage by designated transplant coordinator(s), sufficient in number to meet the needs of the center's activities.
- 7.3200 Center shall have nurses qualified by training and experience in the care of transplant recipients, sufficient in number to meet patient needs.
- 7.3300 Center shall have sufficient data management personnel to comply with NMDP and Center for International Blood and Marrow Transplant Research (CIBMTR) data submission requirements (See Resources).
- 7.3400 Center shall identify a patient advocate who is familiar with the center's program and issues of unrelated donor hematopoietic cell transplantation.

7.4000 Support Services

- 7.4100 Center shall use HLA typing laboratory(ies) accredited by the American Society for Histocompatibility and Immunogenetics (ASHI), the European Federation for Immunogenetics (EFI), and/or the College of American Pathologists (CAP) for HLA typing required by NMDP. The laboratory designated by the transplant center is responsible for the final HLA typing of the patient and donor.
- 7.4200 Center shall have access to a person qualified by training and experience in human histocompatibility testing to assist in the selection of unrelated hematopoietic cells or donors.
- 7.4300 Center shall use a transfusion service providing 24-hour blood component support for transplant patients, including irradiated blood components and components suitable for CMV-negative recipients.
- 7.4400 Center shall use an experienced hematopoietic cell processing laboratory.
- 7.4500 Center shall have experienced physicians who provide consultative services in at least the following disciplines: Cardiology, Gastroenterology, Infectious Diseases, Intensive Care, Nephrology, Pathology, Pulmonary Medicine,

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		Psychiatry, Surgery, Transfusion Medicine, and, if applicable, Radiation Therapy.	
	7.4600	Center shall have sufficient staff from at least the following services: Dentistry, Dietary, Pharmacy, Physical Therapy, and Social Services.	
7.5000		Policies and Procedures	
	7.5100	Center shall maintain written policies, procedures and clinical practice guidelines <u>for management of</u> to address all aspects of allogeneic transplantation.	
	7.5200	Each recipient of hematopoietic cells from an NMDP donor shall be enrolled in a clinical research protocol or treated according to a written clinical practice guidelines.	
	7.5300	Center shall have a mechanism to obtain written consent from the recipient for submission of data to NMDP and Center for International Blood and Marrow Transplant Research (CIBMTR) and blood samples to the NMDP prior to use of hematopoietic cells from an NMDP donor.	
	7.5400	Center shall have policies to ensure timely communication with patients, families and physicians, including the progress of the search and other treatment options.	
	Recru Donor	itment of Marrow or Hematopoietic Cell Adult and Cord Blood + s	Formatted: Indent: Left: 0", Hanging: 1"
8.1000	۰,	Marrow or Apheresis Donor	
	8.1 <mark>40</mark> 00	Donor shall be between the ages of 18 and 60.	
	8. 1 2 <mark>0</mark> 00	Donor shall appear to be in good health.	

- 8.43000 Donor shall provide a medical history and shall document that the history is accurate.
- 8.14000 Pertinent donor medical history shall be evaluated for acceptance or deferral according to the current NMDP procedures and criteria of local donor center medical director.
- 8.45000 Donor shall be given educational materials regarding the risks of infectious disease transmission by hematopoietic cell transplants.
- 8.46000 Donor shall provide informed consent.
 - 8.46100 Donor shall be given a general explanation of the indications for and results of hematopoietic cell transplantation and reasons for using unrelated donors.

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	8. <u>-</u> 1620 <u>0</u>	Donor shall be given a general description of the different types of donation processes and the risks of hematopoietic cell donation associated with each.			
	8.46300 Donor shall be informed that additional HLA testing for donor selection may be performed on stored samples.				
	8.16400 Donor shall acknowledge and document that he/she has read and understood the educational material, has been given ample opportunity to ask questions and has had those questions answer satisfactorily.				
	8. 1 650 <u>0</u>	Donor shall be informed that he/she has the right to decline or withdraw from NMDP participation at any time without prejudice.			
8. 1 700 <u>0</u>	Donor shal	ll not be coerced to register with NMDP.			
8. 1 800 <u>0</u>	Donor's sa	mple shall be HLA typed using criteria established by NMDP.			
8.2000 Co	rd Blood Dor	lor			
<u>8.2100</u>	Consent shall be obtained from the biologic mother for collection and voluntary donation of the HPC(CB) to a cord blood bank for use in unrelated cellular therapies per cord blood bank specific policies.				
	8.2110	Consent for collection shall be obtained before delivery.			
1	8.2120	Biologic mother shall be given a general explanation of the indications for and results of cellular therapies and reasons for using unrelated donors.			
	8.2130	Biologic mother shall be given a general description of the donation process and the risks of cord blood donation.			
		Dislocia mother shall colmovil dee and decompart that she has read			
	8.2140	Biologic mother shall acknowledge and document that she has read and understood the elements of participation, has been given ample opportunity to ask questions, and has had those questions answered satisfactorily.			

9.0000 Donation Process

9.1000 Adult Donor Additional Testing/Information

9.1100 Donor shall provide signed consent for additional testing according to NMDP policy.

9.1200 Customized HLA Typing

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9.1210	If a stored sample is used for customized HLA typing, the potential donor shall be informed that the typing is in progress and shall be given the opportunity to continue or withdraw.
9.1220	Donor center shall obtain from the donor a medical history that meets NMDP requirements for a marrow or apheresis donor
	9.1221 Donor center shall keep a written record of the medical history.
	9.1222 Medical history indicative of disease shall be evaluated by a physician before acceptance of the donor.
9. 1300<u>1200</u> Confirmate	ory Testing Stage
9. 1310<u>121(</u>	Donor center shall provide potential donor with educational materials including the risks of infectious disease transmission by transplantation.
9. 1320<u>122</u>(Donor center shall obtain from the donor a medical history that meets NMDP requirements for a marrow or apheresis donor.
	9.13211221 Donor center shall keep a written record of the medical history.
	9. 1322<u>1222</u> Medical history indicative of disease shall be evaluated by a physician before acceptance of the donorproceeding.
9. 1330<u>123(</u>	2 The donor center shall perform and/or review the results of the screening tests for evidence of infection due to the relevant communicable diseases as defined by NMDP.
9. 1340<u>124(</u>	ABO grouping and Rh typing of the potential donor shall be performed if the donor has not been previously typed by the donor center.
9. 1350<u>125(</u>	2 Results of the ABO grouping, Rh typing and infectious disease testing shall be reported to the transplant center that requested the confirmatory testing sample.
	9.1351-1251 Donors with a confirmed positive test for relevant communicable disease agents (e.g. HB <u>V sAg</u> or HCV) shall not be used unless urgent medical need is documented.
	9.13521252 Donors with a confirmed positive test for HIV shall not be used.

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9). 1360<u>1260</u>	Transplant Center shall verify the HLA typing of the donor in accordance with NMDP policy, using a new sample.
9	9. 1370<u>1270</u>	Confirmatory testing shall have been completed prior to hematopoietic cell donation.
9	9. 1380<u>1280</u>	Results of the confirmatory HLA typing shall be sent to the NMDP.
9.2000 Adult	Donor Info	rmation Session
		as required by the NMDP shall be provided to the selected potential pheresis donor before consent is obtained.
	Prospective Prospective Prospective Prospective Prospective Provide Provide Prospective Pr	marrow or apheresis donor shall be informed of at least the
ç	9.2210	The donation process and associated risks to the donor.
ç	9.2220	The transplant process for the recipient.
9	9.2230	Right to withdraw at any time, but extreme risk of death for the recipient if the donation is not completed once the preparative regimen is begun.
9	9.2240	Possibility that he/she may be asked to provide other cellular therapy products for the same recipient.
		marrow donor shall be informed about the procedure of HPC(M) I the following risks of HPC(M) donation:
	9.2310	Risks of anesthesia.
	9.2320	Risks and discomforts of HPC(M) donation including mechanical injury, prolonged pain, infection, transfusion and mental/emotional stress.
		apheresis donor shall be given detailed information about the bocedure and the following risks of the procedure.
9	9.2410	Risks and side effects of mobilizing agent (if applicable).
9	9.2420	Possibility of central venous catheter placement, along with its risks. <u>-and</u> -discomforts, and mental/emotional stress.
9	9.2430	Risks and discomforts of the apheresis procedure.
9.3000 Medic	al Evaluatio	on of the Prospective HPC(M) or HPC(A) Donor
		r shall provide prospective donor with educational materials e risks of infectious disease transmission by transplantation.

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9.3200 Medical his	story
9.3210	Donor center shall obtain from the donor a medical history that meets NMDP requirements.
9.3220	Medical history indicative of disease or risk of infectious disease shall be evaluated by a donor center medical director or designee to determine the donor's suitability to donate and eligibility status.
9.3300 Medical ex	amination
9.3310	Examining practitioner is responsible for protecting the safety of the donor and for delineating conditions in the donor that may be transmissible by transfusion or transplantation.
9.3320	Examining practitioner shall be designated by medical director of donor, collection, or apheresis center.
9.3330	Examining practitioner shall not be <u>the primary practitioner</u> overseeing the care of the recipient. part of the transplant team of the center performing the transplant.
9.3340	Examining practitioner shall perform and/or evaluate a complete medical history and physical examination to include special notation of the following:
	9.3341 Pregnancy assessment.
	9.3342 Deferral from blood donation.
	9.3343 Contraindications to HPC(M) or HPC(A) donation.
	9.3344 Findings that would increase the anesthesia risk for the prospective donor.
9.3350	Examining practitioner shall obtain and evaluate <u>donor testing per</u> <u>NMDP policies and procedures</u> .at a minimum the results of the following tests:
	9.3351 Chest X-ray
	9.3352 Electrocardiogram
	9.3353 Urinalysis
	9.3354 Complete blood count
	9.3355 Electrolytes, glucose
	9.3356 Blood urea nitrogen and creatinine

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		9.3357	Serum protein plus albumin or serum protein electrophoresis
		9.3358	Screening for Hemoglobin S
	9.3360		practitioner shall report results of the medical n writing to the donor center.
	9.3370	director/phy center and th that the done	val of the donor shall not occur until the medical sician designee of the collection center or apheresis he donor center medical director or designee document or meets the criteria for collection and the donor has onsent to donate.
		9.3371	Donor center shall notify the NMDP case manager that the donor is medically suitable and has signed the consent to donate.
	9.3380	performed if	or shall ensure repeat infectious disease testing is f previous results were obtained more than 30 days C(M) or HPC(A) donation (Standard 2.4120 applies).
9.4000 Pro	spective Adul	t Donors with	Abnormal Findings
9.4100			ector or designee shall report to the donor any ormal findings discovered during donor evaluation.
	9.4110		be notified of the findings and documentation of donor shall be maintained.
	9.4120		he right to decline donation based on the abnormal l keep the reason(s) confidential.
9.4200	Clinically si	ignificant abn	ormal finding that may increase risk to the donor.
	9.4210	center media	er medical director and apheresis or marrow collection cal director (or examining practitioner) shall determine finding constitutes unacceptable risk to the donor.
	9.4220	may increase	agrees to donate, any clinically significant finding that e risk in the prospective donor shall be reported by the r to the NMDP.
9.4300	Abnormal f	inding that ma	ay increase risk to the recipient.
	9.4310	hematopoiet	enter medical director shall determine whether tic cells from a donor with an abnormal finding pose e risk to the recipient.

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	9.4320	finding that	o use hematopoietic cells from a donor with an abnormal t may increase risk to the recipient shall be ated by the transplant center, in writing, to the NMDP.
	9.4330	to the recip	finding that may increase recipient risk shall be reported bient or recipient's representative, who shall be as to the potential impact of the abnormality.
		9.4331	Documentation of counseling shall be maintained at the transplant center.
9.5000 Pre-	Collection Co	ommunicati	on
9.5100	HPC(M) or	HPC(A) Do	nation
	9.5110	NMDP that	center shall provide signed acknowledgment to the t the donor's ABO group and Rh type, degree of HLA test results are acceptable.
	9.5120	until the do testing, per	f the recipient's preparative regimen shall not occur onor has received final approval and infectious disease formed within 30 days of HPC(M) or HPC(A) donation, en reported to the NMDP.
9.5200	HPC(M)Dor	nation	
	9.5210	writing on	er, collection center, and transplant center shall agree in the volume and nucleated cell count of HPC(M) to be efore start of preparative regimen.
	9.5220	-	center and collection center shall agree on the medium, ant and additives used for collection and transport of
	9.5230		nucleated cells to be used for quality assurance and all be included and identified separately on the marrow m.
	9.5240		er and collection center shall agree on the volume of blood to be collected by the donor center.
9.5300	HPC(A) and	I MNC(A) I	Donation
	9.5310	shall agree	A), donor center, apheresis center and transplant center in writing on the following before the start of the preparative regimen:
		9.5311	Volume of whole blood to be processed or total CD34 cells to be collected.

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		9.5312 Number of apheresis procedures to be performed.
	9.5320	For MNC(A), donor center, apheresis center and transplant center shall agree in writing on the volume of blood to be processed.
9.6000 Pre-	-Collection A	dult Donor Blood Samples
9.6100		on donor blood samples in excess of those required for autologous mples needed to assess the physical well being of the donor should
	9.6110	Limited to a maximum volume defined in current NMDP guidelines.
	9.6120	Obtained more than 10 days prior to HPC(M)collection.
9.7000 Sub	sequent Adul	t Donor Contacts
9.7100		ne donation, donor center shall evaluate the well-being of the donor ving manner:
	9.7110	Telephone call or direct conversation with the donor shall be made within 48 hours of the donationafter discharge from the collection facility.
	9.7120	Contact with the donor shall be repeated between five and seven days after donation.
	9.7130	If the donor has any unusual clinical complaints, donor shall be referred to an appropriate source of medical care.
	9.7140	Contacts with donor shall continue until the donor is free of clinical complaints related to the collection.
9.7200	Subsequent	Donations
	9.7210	The maximum number of donations from a given donor is limited according to NMDP policy.
	9. 7220<u>7210</u>	Donor may be asked to provide an additional cellular therapy product for the same recipient following NMDP guidelines.
		9.72217211 Donor suitability and eligibility determination requirements apply for each donation occurrence
		9.72227212 Donor should not provide more than two subsequent donations for a given recipient, of which only one may be an HPC(A) or HPC(M) donation.

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	9. 7230<mark>7220</mark>	recipient	only	ould not<u>may</u> -be asked to donate HPC for a second <u>γ if-unless</u> no other equally compatible donor is the following conditions are met:
		9. 7231<u>72</u>		At least one year has elapsed since the first PC(M) or HPC(A) donation for the first recipient.
		9. 7232<u>72</u>		At least three years have elapsed since a subsequent $PC(M)$ or $HPC(A)$ donation.
		9. 7233<u>72</u>		No donor shall provide more than two HPC(M) onations.
		9. 7234<u>72</u> permitted		Donation of HPC to a third recipient is not
		<u>9.7225</u>		MDP Medical Director may authorize exceptions to ese standards
	9. 7240<u>7230</u>	Donor ha	as th	e right to refuse consent for any subsequent request.
9.7300	Donor/Reci	pient Direc	ct Co	ontact
	9.7310	between of donor and	dono d rec	egistry or transplant program allows direct contact or and recipient, contact is allowed only after both cipient or recipient's representative have signed a prizing release of personal information.
		9.7311		Direct contact shall not occur until after the first anniversary of the transplant.
9.8000 Cor	rd Blood Done	ution		
9.8100		3) to a cord	d ble	from the biologic mother for testing and storage of ood bank for use in unrelated cellular therapies per olicies.
9.8200	identify gen	etic disord	lers a	the biologic mother, a family medical history to and a personal medical history to identify infections ions that are transmissible by transplantation.
	9.8210	Medical ł	histe	wy shall reflect the biologic mother's health status at

 the time of delivery.

 9.8220

 Bank shall define criteria used to assess the infant donor for

infection or other abnormalities that may potentially affect the safety of the recipient or the therapeutic value of the cellular therapy product. ©20154 National Marrow Donor Program 23rd2nd Edition January 1, 2016May 1, 2014 P00008 rev. 43 NMDP Standards (January1, 2016 May 1, 2014) Page 24 of 41 9.8300 Bank shall test a blood sample from the biologic mother of cord blood donor for infectious diseases as defined by NMDP. 9.8310 Blood sample from biologic mother of cord blood donor used for infectious disease testing shall be obtained within 7 days prior to or within 7 days after collection (Standard 1.4000 applies). Bank shall inform, counsel and document counseling of biologic 9.8320 mother regarding any clinically significant abnormal findings. 9.8400 Medical director or designee shall evaluate medical history and testing results, and document the review prior to listing the HPC(CB) unit with the NMDP. 10.0000 Hematopoietic Cell Collection, Storage, Transportation, Processing and Labeling 10.1000 HPC(M) Collection 10.1100 Collection shall be performed only after it has been determined that the intended recipient is suitable for immediate transplant. 10.1110 Collection shall not be requested for transplantation at an undetermined future date. 10.1200 Collection shall be performed with a needle designed specifically for HPC(M) collection. 10.1300 HPC(M) shall be taken from the posterior aspect of the iliac crest. 10.1400 Collected marrow volume shall not exceed 20 ml/kg donor body weight. 10.1500 HPC(M) shall be harvested with only the types and amounts of anticoagulants, media and additives agreed on by transplant and collection centers. 10.1600 HPC(M) should contain the number of nucleated cells agreed upon by the transplant center, donor center, and collection center. 10.1610 Collection center shall count the nucleated cells collected. 10.1700 HPC(M) shall be filtered during collection using sterile filters made of materials that do not deplete leukocytes. 10.1800 HPC(M) shall be divided into approximately equal portions and packaged in at least two sterile, closed, labeled blood bags appropriate for HPC(M) collection, each with ports that can be entered aseptically. 10.2000 HPC(A) and MNC (A) Collection

10.2100 HPC(A) collection

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	10.2110	Hematopoietic mobilizing agent shall be given to donors only when approved by the NMDP.
	10.2120	Apheresis shall be performed only after it is determined that the intended recipient is suitable for immediate transplantation.
		10.2121 Apheresis shall not be requested for transplantation at an undetermined future date.
	10.2130	For central venous access see Section 6.5400.
10.2200		hall be performed using an instrument and software designed for ar cell collection.
10.2300		hall be performed using ACD-A anticoagulant in a ratio sufficient xtracorporeal clotting.
10.2400	Total volum and procedu	he of blood processed per collection shall be set by NMDP protocols ares.
10.2500	Target parai	meters shall be specified in writing.
	10.2510	Apheresis center shall obtain component cell counts, including CD34 counts for HPC(A), and promptly transmit results to NMDP and to the transplant center.
10.2600	Cells shall b cells during	be suspended in sufficient donor plasma to maintain viability of the transport.
10.2700		be aseptically collected in a sterile, labeled container with a port that red aseptically.
10.3000 HPC	C(CB) Collect	tion and Processing
10.3100	.	lection and processing of the HPC(CB) units shall be consistent with dards and/or NetCord FACT Standards (See Resources).
10.3200		nits shall be stored with at least two integrally attached ed product samples available for additional testing.
10. <u>3</u> 4000 HPC	C(M) or HPC	(A) Processing
10. <u>3</u> 4100		enter and/or apheresis centers shall not add anything, process or e product except as requested by the transplant center and approved DP.
		by further processing shall only be performed by transplant center or soratory designated by the transplant center.
10. <u>3</u> 4200	Transplant o	center shall perform the following testing:

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	10. <u>3</u> 4210	Count the number of nucleated cells in the product.	
	10. <u>3</u> 4220	Confirm ABO grouping and Rh typing of HPC(M) or HPC(A) product or blood obtained from the donor at the time of collection.	
	10. <u>3</u> 4230	Fungal and bacterial cultures.	
	10. <u>3</u> 4240	CD34-positive cell quantitation of HPC(A) products.	
	eling and Do opreserved H	cumentation [HPC(M); HPC(A); MNC(A); HPC(CB); PC(CB)]	
10. <u>4</u> 5100	Circular of be consister	all conform to applicable regulations and labeling information in the Information (COI) or package insert for licensed products and shall at with AABB, FACT-JACIE and/or NetCord-FACT Standards, as See Resources).	
	10.5110	Center shall complete the product-specific, NMDP-supplied label and tie-tag, and affix or attach to each bag, as applicable for "HPC(M)" "HPC(A)" and "MNC(A)" products.	
10. <u>4</u> 5 200	Biohazard and Warning Labels, as required by the US Food and Drug Administration, shall conform with labeling as outlined in 10.5100 (See Resources).		
10. <u>4</u> 5 300	Documents accompanying the product shall conform to applicable regulations and labeling information in the Circular of Information (COI) or package insert for licensed products and shall be consistent with AABB, FACT-JACIE and/or NetCord-FACT Standards, as applicable (See Resources).		
10. <u>4</u> 5400	Each item recorded on the label and accompanying documents shall be verified for accuracy by two individuals or by one individual and a validated electronic equivalent and verification documented.		
10. <u>5</u> 6000 Trai	10. <u>5</u> 6000 Transportation		
10. <u>5</u> 6100	Each non-cryopreserved product shall be placed inside a secondary container which is sealed to prevent leakage (e.g. an outer bag).		
10. <u>5</u> 6200	Products shall be enclosed in a rigid shipping container with temperature insulating properties.		
	10. <u>5</u> 6210	The rigid shipping container shall include a document on the inside of the container and a label on the outside of the container according to NMDP policies and procedures.	
10. <u>5</u> 6300	Non-cryopreserved products shall be transported at the temperature specified by the transplant center or NMDP.		

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- 10.<u>56400</u> Cryopreserved products shall be shipped in a liquid nitrogen "dry shipper" properly charged to maintain temperature of -150°C or colder at least 48 hours beyond the expected arrival time at the receiving facility.
 - 10.<u>56410</u> The temperature of the shipping container during shipment shall be continuously monitored.
- 10.<u>5</u>6500 All non-cryopreserved HPC(A) and HPC(M) shall be hand carried by a suitably trained courier in the passenger compartment of the transport vehicle.
- 10.<u>5</u>6600 Transported cellular therapy products should not be passed through X-ray or other irradiation devices.

10.<u>6</u>7000 HPC(M); HPC(A); <u>and MNC(A)</u>; and HPC(CB)

- 10.<u>6</u>7100 HPC(M); HPC(A); and MNC(A) products shall be infused as soon as feasible. HPC(M) and HPC(A) products should be infused within 48 hours of collection.
- 10.7200 HPC(CB) units shall be infused as soon as possible after thawing and preparing the product for administration per manufacturer's instructions or validated local procedure(s).

11.0000 Adverse Events, Deviations, Complaints and Nonconforming Products, Materials or Services

11.1000 Adverse Events

11.1100 Participating Center shall have processes and procedures for capturing, evaluating, documenting and reporting suspected donor or recipient adverse events.

11.1110	Center shall document and investigate adverse events associated with the use of a mobilizing agent and/or the collection or administration of a cellular therapy product.
11.1120	Center shall notify NMDP of serious adverse events possibly related to the product as defined in NMDP protocols and procedures.
11.1130	Fatal or potentially life threatening adverse events possibly related to the product shall be reported to NMDP by close of the next business day following determination of the event.

11.1140 Center shall maintain a record of adverse events and follow-up.

11.2000 Deviations

11.2100 Participating Center shall have processes and procedures for capturing, documenting, investigating and reporting deviations from established

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	-	NMDP Standard	ls, NMDP protocols, facility-defined acceptance d regulations.
	11.2110	Center shall h for planned de	ave process to document and obtain pre-approval eviations.
		11.2111	Centers shall obtain NMDP pre-approval for planned deviations from NMDP-defined protocols.
	11.2120	assess the nee	ave a process to evaluate unplanned deviations to d to determine the cause of the event and corrective and preventative actions, when
		11.2121	Centers shall report unplanned deviations from NMDP-defined protocols per NMDP-defined processes.
	11.2130	possible the dev	low-up, center shall report to NMDP as soon as viations that affect the safety, purity, potency or product or the safety or identity of the donor or
		11.2131	Deviations involving transport that potentially affect the integrity of the product or delay the availability of product for a patient shall be reported promptly to facilitate immediate corrective action.
	11.2140	Center shall n	naintain a record of deviations and follow-up.
	11.2150		variances from these Standards shall be submitted with NMDP policies and procedures.
11.3000 Comp	laints		
11.3100	evaluating,		ve processes and procedures for capturing, follow-up of reported complaints relative to d by Center.
11.4000 Nonco	onforming Pr	oduct/Materials/	/Service
11.4100			ve processes and procedures to prevent the nonconforming products, supplies/materials or
	11.4110	prevent release/	we processes to identify, document, control and suse of nonconforming products, als or services pending evaluation.

	11.4111	NMDP shall be notified as soon as possible of nonconforming products, supplies/materials or services that impact NMDP donors, products or recipients to facilitate timely follow-up.
11.4120		ve process to assess safety, quality, identity, otency, as applicable, of nonconforming products, als or services.
11.4130		ve a process for documented evaluation and iffected nonconforming products, als or services.
	11.4131	Authority for determining disposition of nonconforming products, supplies/materials or services shall be documented.
	11.4132	The facility of final distribution shall have policies and procedures to address cellular therapy products with positive microbial culture, including:
		1) Product labeling
		2) Investigation of cause
		3) Notification of recipient physician
		 Recipient follow-up and outcome analysis
		5) Reporting to regulatory agencies, as applicable
11.4140	products or service determined to b	e notified as soon as possible when released vices applicable to NMDP business are be unsuitable to facilitate timely follow-up and fication and reporting.
11.5000 General Reporting	Requirements	
	-	

11.5100 Center shall have processes that support the reporting of adverse reactions, deviations and nonconforming products, supplies/materials or services to affected parties and regulatory agencies in accordance with applicable laws and regulations.

12.0000 Records and Record Retention

12.1000 General Record Requirements for All Participating Centers

12.1100 Center shall have secure record storage.

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- 12.1200 Records shall be created concurrently with the performance of each critical activity. The work performed, the individual performing the work, and when it was performed shall be identified.
- 12.1300 Records shall be legible, indelible, complete and retrievable in a reasonable period of time.
- 12.1400 Records shall be preserved and protected from accidental or unauthorized destruction or modification.
- 12.1500 All records and communications relating to patients, recipients, donors/donor mothers or potential donors shall be kept strictly confidential.
- 12.1600 Records shall be made available for inspection by authorized individuals.
- 12.1700 Relevant to the processes performed at each site, records shall be maintained to ensure the identification and traceability/trackability of each donor/donor mother and cellular therapy product and all related samples from their initial source, through each processing and testing step to their final disposition and from final disposition, through each processing and testing step to the initial source (12.3000 applies).

12.2000 Computerized Record Requirements

12.2100	Center shall maintain the authenticity, integrity and confidentiality of all
	records, access to which is limited to authorized individuals.

- 12.2110 Center shall have technical and operational support for information systems management.
- 12.2200 Records shall be maintained in a way to ensure their integrity and preservation for the duration of the defined retention period and be retrievable.
 - 12.2210 Before destruction of original records, copies of such records shall be verified as legible, indelible, and complete.
- 12.2300 If not using NMDP developed computer systems, centers shall document the following:
 - 12.2310 System development, if done internally.
 - 12.2320 Numerical designation of system versions with inclusive dates of use.
 - 12.2330 Validation of system functionality (hardware, software and database).
 - 12.2340 Validation and monitoring of data integrity.

12.2400

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12.2350	All modifications to the system shall be authorized according to institutional procedures.
All centers	shall document the following:

- 12.2410 Installation and upgrades of the system.
- 12.2420 Training and continuing competency of personnel.
- 12.2430 Policies and procedures for system maintenance and operations.
- 12.2440 Ongoing backup procedures.
- 12.2450 Documented and tested procedures for data restoration.
- 12.2460 Offsite storage of electronic data records.
- 12.2500 Computer records shall be protected to enable their accurate and ready retrieval throughout the period of required record retention.
- 12.2600 Center shall have an alternative system that permits continuous operation in the event that computerized data are not available.

12.3000 Retention of Records – Indefinite

- 12.3100 Donor Center records pertaining to adult donors, who have been activated for a formalized search and have any of the following records, shall be retained indefinitely:
 - 12.3110 Consent documents for all stages of the search process
 - 12.3120 Health history screenings including reasons for permanent or temporary deferral
 - 12.3130 Infectious disease testing and/or laboratory results.
 - 12. 3140 Documentation of abnormal findings and the notification/counseling of the relevant parties
 - 12. 3150 Records of adverse reactions and post donation complications and recovery.
 - 12.3160 All source documents for any formalized search.
- 12.3200 The following Cord Blood Bank records on units collected under NMDP Investigational New Drug application (IND) or listed with NMDP shall be retained indefinitely:
 - 12.3210 All maternal consent documents for the collection, screening, testing, and storage of cord blood for unrelated allogeneic use

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12.3220		health history and family medical history screening and determinations, including reasons for permanent or / deferral
12.3230	Infectious	- disease testing and other laboratory results
12.3240	Documen of relevar	tation of abnormal findings and notification/counseling at parties
12.3250	-	vertaining to collection and all manufacturing steps inal distribution of cord blood products
	12.3251	Records pertaining to qualification, monitoring and use of reagents, supplies and materials shall be traceable to cord blood product.
	12.3252	Records pertaining to qualification, monitoring, calibration, maintenance and use of equipment shall be traceable to the cord blood product.
	-12.3253 -	Records pertaining to the traceability and tracking of all aspects of the manufacture of the cord blood unit with the exception of facility cleaning and sanitation records which are retained minimally for 3 years.
12.3260		f reported recipient adverse reactions and post- ation complications.
12.3300 Apheresis a	nd Collecti	on Center records which shall be retained indefinitely:
12.3310		locuments from donors for the collection of products for allogeneic use
12.3320	Screening	and testing records
12.3330		pertaining to collection, processing, labeling, packaging, istribution and final disposition of collected product
	12.3331	Records pertaining to qualification, monitoring and use of reagents, supplies and materials shall be traceable to collected product.
	12.3332	Records pertaining to qualification, calibration, maintenance, monitoring and use of equipment shall be traceable to collected product.
	12.3333	Records pertaining to the traceability and tracking of all aspects of the manufacture of the HPC product performed at the site with the exception of facility

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		cleaning and sanitation records which are retained minimally for 3 years.
	12.3340	Records of adverse reactions and post-donation complications, treatment interventions and recovery
12.3400	Transplant	Center recipient records which must-shall be retained indefinitely:
	12.3410	Informed consent documents related to NMDP facilitated cellular therapy products
	12.3420	For recipient formal (activated) search activity, results of donor and recipient HLA typing and other test results at the Transplant Center including the identification numbers of participating donor(s).
	12.3430	Records pertaining to any NMDP facilitated search including:
		12.3431 The identification numbers of participating donor(s)/cord blood unit(s)
		12.3432 Abnormal donor/cord blood unit or recipient findings and notification/counseling of relevant parties
		12.3433 Product testing results, including ABO/Rh typing and microbial cultures
	12.3440	Records related to adverse events associated with NMDP facilitated cellular therapy products
	12.3450	Records related to final disposition of NMDP facilitated cellular therapy products
12.4000 Rete	ention of Rec	ords – Finite (retain for a minimum of three years)
12.4100		er donor records pertaining to individuals who have been deleted e The Match Registry [®] and had never been activated for a formalized
12.4200	The Match	donors who have been activated but deleted or deferred from the Be Registry [®] prior to signing a search stage consent form or initiation of tory questionnaire
12.4300	Recipient se never forma	earch requests and preliminary results of recipient searches that are alized
12.5000 Rete	ention of Rec	ords – Donor Center Transferred Donors
12.5100	Records_ , p receiving d	referably originals, of all transferred donors shall be forwarded to the onor center

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12.5200 Copies of records pertaining to transferred donors who did not donate may be discarded by the transferring center after three years

12.6000 Retention of Records – Donor Center Closing Centers

12.6100 Any center that ceases affiliation with the NMDP shall make provisions for maintenance or transfer of records as approved by the NMDP.

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RESOURCES

AABB: http://www.aabb.org/Pages/Homepage.aspx

American Society for Histocompatibility and Immunogenetics: <u>http://www.ashi-hla.org/</u>

Center for International Blood and Marrow Transplant Research (CIBMTR): http://www.cibmtr.org/

Centers for Medicare & Medicaid Services (CMS)-Approved Accreditation Organizations: https://www.cms.gov/

Circular of Information: <u>http://www.aabb.org/Pages/Homepage.aspx</u> (Search for "Circular of Information")

College of American Pathologists (CAP): http://www.cap.org/apps/cap.portal

Food and Drug Administration: <u>http://www.fda.gov/</u>

European Federation for Immunogenetics (EFI): <u>http://www.efiweb.eu/</u>

ICCBBA: United States Consensus Standard for the Uniform Labeling of Cellular Therapy Products Using ISBT 128: http://www.iccbba.org/

Office of Human Research Protection (OHRP) requirements for a Federalwide Assurance (FWA): <u>http://www.hhs.gov/ohrp/</u> (Search for "Federalwide Assurance")

The Foundation for the Accreditation of Cellular Therapy: NetCord-FACT: International Standards for Cord Blood Collections, Processing and Release for Administration; or FACT-JACIE: International Standards for Cellular Therapy Product Collection, Processing and Administration: <u>http://www.factweb.org</u>

NOTE: The 22nd Edition of the NMDP Standards contains a list of internet resources that are provided as a courtesy. At the time of publication of this Edition, the website addresses were current. The NMDP does not control the content of all referenced websites, however, and the website addresses and associated content are subject to change. NMDP does not guarantee the accuracy of information provided on the websites, nor is it liable for reliance on the information.

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GLOSSARY	
Abnormal Donor Findings	An underlying condition or unusual test result that is identified as a result of the donor evaluation, which may increase risk for the donor or recipient, but is not necessarily a cause for deferral.
Adverse Event (AE)	Adverse event means any untoward medical occurrence associated with the donation or administration of a cellular therapy product.
Apheresis Center	Network facility that meets participation criteria for the collection of hematopoietic cells by apheresis from NMDP volunteer donors.
Apheresis Collection: • HPC, Apheresis [HPC(A)]	Hematopoietic cells collected using apheresis techniques after the donor has received growth factor.
• MNC, Apheresis [MNC(A)]	Leukocyte collection using apheresis techniques without the administration of growth factor. The cell product contains mononuclear cells.
Center/Bank	A specific type of NMDP network entity.
Centers for Medicaid and Medicare Services (CMS)	The federal agency responsible for administering the Clinical Laboratory Improvement Amendments (CLIA). The Joint Commission (TJC), the American Osteopathic Association Healthcare Facilities Accreditation Program (HFAP), and Det Norske Veritas Healthcare (DNV) are examples of organizations which have been granted deemed status by the Centers for Medicare & Medicaid Services (CMS) for hospitals.
Circular of Information	The Circular of Information for the Use of Cellular Therapy Products (hereafter referred to as the Circular) is an extension of container labels, as the space on those labels is limited. The focus of this Circular is restricted to unlicensed cellular therapy products that are minimally manipulated. The Circular is intended to provide general information to those who administer cellular therapy products and serves as an extension and enhancement of the label found on the cellular therapy product.
Clinical Practice Guideline	Standardized disease-specific treatment plan used in lieu of a research protocol when use of an unrelated donor transplant is considered standard of care.
Collection Center	NMDP network hospitals that meet participation criteria with experience and facilities to collect HPC, Marrow and care for donors before and after the collection procedure.

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Complaint	Any communication referencing a problem associated with a cellular therapy product or the collection, screening, testing, processing, storage, distribution or infusion of a cellular therapy product	
Confirmed Positive Test	A donor infectious disease screening test that tested as positive, was repeated using a confirmatory test and was found to be positive.	
Confirmatory Testing Stage	The designation of the stage in the search process during which a potential adult donor is being evaluated as a donor for a specific patient, commonly called CT.	
Confirmed Positive Test	<u>A donor infectious disease screening test that tested as positive, was</u> repeated using a confirmatory test and was found to be positive.	
Consent	Prospectively obtained permission for the collection and use of data, information, specimens or products, for the intended purpose or to conduct an approved research project.	
Continuous Process Improvement (CPI) Program	A method of analyzing and managing the improvement of the NMDP Network's operations.	
Cord Blood Bank	An NMDP network organization <u>accredited by NetCord-FACT or</u> <u>AABB</u> , that meets participation criteria with experience, staff and facilities to collect, process and store HPC, Cord Blood [HPC(CB)]for transplant.	
HPC, Cord Blood [HPC(CB)]	Hematopoietic cells collected from umbilical cord blood and placenta after delivery that has been typed and stored for potential future transplant.	
Customized Typing	A service offered by the NMDP which allows transplant centers to select HLA loci, typing resolution and lab turnaround times for individual patients. The service is designed to reduce search times and increase flexibility during the search process on a case-by-case basis.	
Deviation	A departure from applicable regulations or laws, procedures, protocols, standards or established specifications/requirements. Deviations can be planned or unplanned and may or may not result in unacceptable/unsuitable product or adverse result or outcome.	
Disposition	The status assigned to a cellular therapy product based on evaluation of specific characteristics.	

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Donor Center	An NMDP network organization that meets participation criteria with the experience, staff and facilities to manage interaction with potential volunteer donors listed on the Be The Match Registry [®] .	
Abnormal Donor Findings	An underlying condition or unusual test result that is identified as a result of the donor evaluation, which may increase risk for the donor or recipient, but is not necessarily a cause for deferral.	
Eligibility	A determination whether a potential allogeneic cellular therapy donor meets all donor screening and testing requirements related to transmission of infectious disease as defined by applicable laws and regulations.	
Examining Practitioner	A licensed physician, physician's assistant, or nurse practitioner, consistent with applicable law.	
Federalwide Assurance (FWA)	A document filed by the institution with the Department of Health and Human Services (HHS) stating that the institution will comply with HHS regulations for the protection of human subjects.	
Food and Drug Administration <u>(FDA)</u>	A United States government agency under the direction of within the Department of Health and Human Services charged with protecting and promoting the health of American consumers. by enforcing the Federal Food, Drug and Cosmetic Act.	
Hematopoietic Progenitor Cells (HPC)	Primitive pluripotent cells capable of self-renewal as well as maturation into any of the blood cell lineages, and committed, lineage-restricted cells, regardless of the tissue source. Marrow: HPC, Marrow; HPC(M) PBSC: HPC, Apheresis; HPC(A) Cord Blood: HPC, Cord Blood; HPC(CB)	
Hematopoietic Cells	An all inclusiveall-inclusive term for hematopoietic progenitor cells and their progeny, e.g., differentiating cells and mature cells.	
HPC, Cord Blood [HPC(CB)]	Hematopoietic cells collected from umbilical cord blood and placenta after delivery that has been typed and stored for potential future transplant.	
Human Leukocyte Antigen (HLA) Typing	The procedure by which HLA alleles (in the case of DNA-based typing) or HLA antigens (in the case of serological typing) are identified.	
Indefinite Record Retention	Records identified as having an "indefinite" or similar retention requirement shall be retained for an indefinite period. For purposes of	

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	this definition, "indefinite" means retention shall be permanent and ongoing, unless and until a different retention period is specified for the documents at issue.	
Independent Ethics Committees (IEC)	An independent body whose responsibility it is to ensure the protection of the rights, safety, and well-being of human subjects involved in research.	
Informed Consent	The process of obtaining permission from an individual to participate in research or other operations of the NMDP, where the individual is informed of and has an opportunity to discuss the benefits, risks, and alternatives to his/her participation. Consent is based upon a clear appreciation and understanding of the relevant facts, implications, and future consequence of the decision. The consent is given voluntarily and free from undue influence or coercion.	
Institutional Review Board (IRB)	An administrative body established in accordance with Title 45 CFR Part 46 to protect the rights and welfare of human research subjects recruited to participate in research activities conducted under the auspices of the institution with which it is affiliated.	
Manufacture	Manufacture means, but is not limited to, any or all steps in the recovery, transport, processing, storage, labeling, packaging, shipping, or distribution of any human cell or tissue, and the screening or testing of the cell or tissue donor.	
MNC, Apheresis	A cell product containing mononuclear cells obtained by apheresis.	
Nonconforming Product, Supply/Material or Service	A failure of cellular characteristic, supply, reagent, dose or test results to meet specified requirements.	
Office of Human Research Protections (OHRP)	An office within the Department of Health and Human Services, which is responsible for oversight of the broad system to protect humans participating in research.	
Participating Center	Donor, collection, apheresis or transplant center, recruitment center or cord blood bank that has submitted an NMDP application, meets NMDP criteria, and become a member of the NMDP network. Term references the facility, policies, staff, etc. composing the network entity.	
Processing	Manipulation of the product in the laboratory setting.	
Record	Information captured in writing or electronically that provides objective evidence of activities that have been performed or results	

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	that have been achieved, such as test records. Records do not exist until the activity has been performed and documented.
Recruitment Center	An NMDP network organization meeting participation criteria that performs donor recruitment. May also be known as a Recruitment Group.
Shall	Indicates a standard that is to be complied with at all times.
Shipping	The physical act of transferring a cellular therapy product within or between facilities. During shipping the product leaves the control of trained personnel at the originating or receiving facility.
Should	Indicates an activity that is highly recommended or advised, but for which there may be effective alternatives.
Subsequent Donation:	Collection of HPC, Apheresis; HPC, Marrow; MNC, Apheresis; or other cellular therapy product from a donor for his/her original recipient or another recipient.
Suitability, Medical	The medical fitness of a potential allogeneic cellular therapy donor to proceed to donation, based on established criteria relative to medical risk associated with donation, as determined by medical evaluation and physician judgment.
System	Refers to computer systems for management of donor or recipient information and records.
Traceability	The ability to follow the history of a process, product or service by review of documents.
Trackability	The ability to follow a cellular therapy product from donor to consignee or final distribution and from consignee or final distribution to donor by review of documents.
Transplant Center	An NMDP network hospital based program that meets participation criteria with experience, staff and facilities to perform allogeneic stem cell transplantation.
Transportation	The physical act of transferring a cellular therapy product within or between facilities. During transportation the product does not leave the control of trained personnel at the originating or receiving facility.
Variance From Standards	A pre-approved short or long term deviation from a standard, which once approved by the NMDP, is in place prospectively for the specific standard. It must be demonstrated that donor/patient safety and

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	product integrity are not negatively impacted prior to approval by the NMDP.