A service of the U.S. Nationa	Institutes of Health			
	Trial record 2 of 13	for: thalass	emia and umbilical c	cord blood
	Previous Stud	ly Returr	to List Next St	udy
Cord Blood Transpla	ntation for Sickle Cell Ar	nemia anc	l Thalassemia	
This study has been con Sponsor: National Heart, Lung, ar Information provided by: National Heart, Lung, and	mpleted. nd Blood Institute (NHLBI) Blood Institute (NHLBI)	ClinicalTria NCT0002 First receiv Last updat Last verifie History of C	als.gov Identifier: 9380 red: January 10, 200 ed: September 30, 2 d: September 2008 Changes	02 2008
Full Text View	bular View No Study Resu	Its Posted	Disclaimer	How to Read a Study Record
Tracking Information	January 10. 2002			
Last Undated Date	Sentember 30, 2008			
Start Date ICMJE	January 1999			
Primary Completion Date	August 2006 (final data collection date for primary outcome measure)			
Current Primary Outcome Measures ICMJE (submitted: April 27, 2006)	Hematologic parametersGVHD			
Original Primary Outcome Measures ICMJE	Not Provided			
Change History	Complete list of historical versions of study NCT00029380 on ClinicalTrials.gov Archive Site			
Current Secondary Outcome Measures ICMJE	Not Provided			
Original Secondary Outcome Measures ICMJE	Not Provided			
Current Other Outcome Measures ICMJE	Not Provided			
Original Other Outcome Measures ICMJE	Not Provided			
Descriptive Information	n			
Brief Title ICMJE	Cord Blood Transplantation f	or Sickle Cell	Anemia and Thalas	semia
Official Title ICMJE	Sibling Donor Cord Blood Bar	nking and Tra	insplantation	
Brief Summary	This study will develop a nation thalassemia.	nal cord bloc	d bank for siblings	of patients with hemoglobinopathies and
Detailed Description	BACKGROUND:			

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During the past decade, a number of advances have been made in the treatment of patient anemia and thalassemia. Among these advances is allogeneic bone marrow transplantation current treatment that offers a potential for cure. In sickle cell anemia, transplantation has be patients who have had advanced organ damage. In thalassemia, transplantation has been having any evidence of iron-related tissue damage. Due to concerns over engraftment and disease (GVHD), transplants for patients with hemoglobinopathies have been limited to situa human leukocyte antigen (HLA) compatible donor existed. Unfortunately, an HLA-matched r not available. Umbilical cord blood (UCB), a recently recognized source of hematopoietic ste used to successfully transplant bone marrow to over 500 patients. The potential advantage other donor sources of stem cells is the minimal risk of high-grade GVHD (even without corr compatibility).					
		This study will establish a national sibling donor cord blood (SDCB) program, evaluate its use in a multi-center pilot study of transplantation, and develop a Web-based data management system to support these two projects. A multi-center pilot study was conducted on cord blood transplantation in children with either sickle cell disease or thalassemia. The investigators tested the hypothesis that a novel immunosuppressive conditioning regimen (fludarabine, cyclophosphamide, and busulfan) and post transplant therapy (mycophenolate mofetil and cyclosporine) would improve engraftment rates and prevent disease recurrence. The effect of SDCB transplantation on hematologic parameters and GVHD was monitored. Enrollment in the study was suspended on December 29, 2003. The protocol was revised, replacing the previous conditioning regimen of fludarabine, busulfan, and cyclophosphamide with a more conventional regimen of rabbit anti-thymocyte globulin (Sangstat), busulfan, and cyclophosphamide. The revised protocol is open for enrollment.			
	Study Type ICMJE	Interventional			
	Study Phase	Phase 2			
	Study Design ICMJE	Primary Purpose: Treatment			
	Condition ICMJE	 Hematologic Diseases Anemia, Sickle Cell Beta-Thalassemia 			
		Hematopoietic Stem Cell Transplantation			
	Intervention ICMJE	 Hematopoietic Stem Cell Transplantation Drug: Sangstat Drug: Cyclophosphamide Drug: Busulfan Drug: Mycophenolate Mofetil Drug: Cyclosporine Procedure: Cord Blood Transplantation 			
	Intervention ICMJE	Hematopoietic Stem Cell Transplantation Drug: Sangstat Drug: Cyclophosphamide Drug: Busulfan Drug: Mycophenolate Mofetil Drug: Cyclosporine Procedure: Cord Blood Transplantation Not Provided			
	Intervention ICMJE Study Arm (s) Publications *	 Hematopoletic Stem Cell Transplantation Drug: Sangstat Drug: Cyclophosphamide Drug: Busulfan Drug: Mycophenolate Mofetil Drug: Cyclosporine Procedure: Cord Blood Transplantation <i>Not Provided</i> Reed W, Walters M, Lubin BH. Collection of sibling donor cord blood for children with thalassemia. J Pediatr Hematol Oncol. 2000 Nov-Dec;22(6):602-4. Lubin BH, Eraklis M, Apicelli G. Umbilical cord blood banking. Adv Pediatr. 1999;46:383-408. Review. No abstract available. Woodard P, Lubin B, Walters CM. New approaches to hematopoietic cell transplantation for hematological diseases in children. Pediatr Clin North Am. 2002 Oct;49(5):989-1007. Review. Reed W, Smith R, Dekovic F, Lee JY, Saba JD, Trachtenberg E, Epstein J, Haaz S, Walters MC, Lubin BH. Comprehensive banking of sibling donor cord blood for children with malignant disease. Blood. 2003 Jan 1;101(1):351-7. Locatelli F, Rocha V, Reed W, Bernaudin F, Ertem M, Grafakos S, Brichard B, Li X, Nagler A, Giorgiani G, Haut PR, Brochstein JA, Nugent DJ, Blatt J, Woodard P, Kurtzberg J, Rubin CM, Miniero R, Lutz P, Raja T, Roberts I, Will AM, Yaniv I, Vermylen C, Tannoia N, Garnier F, Ionescu I, Walters MC, Lubin BH, Gluckman E, Related umbilical cord blood transplant in patients with Thalassemia and Sickle Cell Disease. Blood. 2002 Nov 7 [epub ahead of print] 			

* Includes publications given by the data provider as well as publications identified by ClinicalTrials.gov Identifier (NCT Number) in Medline.

Recruitment Informatio	n
Recruitment Status ICMJE	Completed
Estimated Enrollment	30
Completion Date	August 2006
Primary Completion Date	August 2006 (final data collection date for primary outcome measure)
Eligibility Criteria ICMJE	 Inclusion Criteria: Suitable UCB collection from an HLA-identical sibling Sickle cell anemia (Hb SS or S beta thalassemia) with significant disease manifestations as defined by at least one of the following criteria: A history of painful events defined as three or more painful events in the 2 years prior to enrollment. Pain may occur in typical sites associated with vaso-occlusive painful events and cannot be explained by causes other than sickle cell disease. The pain must last at least 4 hours and require treatment with either parenteral narcotics, are not routinely used to treat painful events), or parenteral nonsteroidal anti-inflammatory drugs. Painful events managed at home will be considered only if there is documentation of the event in a clinical record that may be reviewed by an investigator. Acute chest syndrome (ACS) with two or more episodes of ACS with the development of a new infiltrate on chest radiograph and/or having a perfusion defect demonstrable on a lung radiostope scan Any combination of painful events and episodes of ACS that total three events in the 2 years before transplantation Any clinically significant neurologic event (stroke or hemorrhage) or any neurologic defect lasting more than 24 hours Abormal cerebral MRI and abnormal cerebral MRA An episode of dactylitis in the first year of life such that the risk of a severe adverse outcome before 18 years of age exceeds 54% (as defined by the cooperative study of sickle cell disease (CSSCD) infant cohort study) History of positive trans-cranial Doppler studies (average greater than 200 cm/sec) Beta thalassemia agony with significant disease manifestations as defined by the following criteria: Beta thalassemia genotype) and requiring eight or more red blood cell (REQ) transfusions a year and iron chelation therapy. Vounger patients who are at risk of transfusional iron overload but who have not yet initiated iron chelation therapy will be e
	of predicted (corrected for hemoglobin); if unable to obtain PFT, oxygen saturation greater than 85% on room air
Gender	Both
Ages	3 Years to 14 Years

9/20/13

Cord Blood Transplantation for Sickle Cell Anemia and Thalassemia - Tabular View - Clinical Trials.gov

Accepts Healthy Volunteers	No				
Contacts ICMJE	Contact information is only displayed when the study is recruiting subjects				
Location Countries ICMJE	United States, Canada				
Administrative Informa	tion				
NCT Number ICMJE	NCT00029380				
Other Study ID Numbers	141, U01 HL61877				
Has Data Monitoring Committee	Not Provided				
Responsible Party	Bertram H. Lubin, Children's Hospital, Oakland				
Study Sponsor ICMJE	National Heart, Lung, and Blood Institute (NHLBI)				
Collaborators ICMJE	Not Provided				
Investigators ICMJE	Study Chair:	Victor Aquino	University of Texas Southwestern Medical Center - Dallas		
	Study Chair:	Nancy Bunin	Children's Hospital Philadelphia		
	Study Chair:	Martin Champagne	Hopital Ste-Justine		
	Study Chair:	Joel Brochstein	Hackensack University Medical Center		
	Study Chair:	Michael Joyce	Nemours Children's Clinic		
	Study Chair:	Naynesh Kamani	Children's Research Institute		
	Study Chair:	Gary Kleiner	University of Miami Batchelor Children's Research Center		
	Study Chair:	Joanne Kurtzberg	Duke University Medical Center Children's Hospital		
	Study Chair:	Bertram H. Lubin	Children's Hospital & Research Center Oakland		
	Study Chair:	Alexis Thompson	Ann & Robert H Lurie Children's Hospital of Chicago		
	Study Chair:	Donna Wall	Texas Transplant Institute		
	Study Chair:	Mark Walters	Children's Hospital & Research Center Oakland		
	Study Chair:	Lolie Yu	Louisiana State University Children's Medical Center		
Information Provided By	National Heart, L	ung, and Blood Institute	e (NHLBI)		
Verification Date	September 2008				