

Tracking Information						
First Received Date ICMJE	November 29, 2010					
Last Updated Date	August 28, 2013					
Start Date ICMJE	January 2011					
Estimated Primary Completion Date	December 2014 (final data collection date for primary outcome measure)					
Current Primary Outcome Measures ICMJE (submitted: November 30, 2010)	Determine if autologous hUCB transplantation is safe and free of infusion related toxicity. [Time Frame: 0-21 days post cellular product infusion] [Designated as safety issue: Yes]					
Original Primary Outcome Measures ICMJE	Same as current					
Change History	story Complete list of historical versions of study NCT01251003 on ClinicalTrials.gov Archive Site					
Current Secondary Outcome Measures ICMJE (submitted: November 30, 2010)	Determine if autologous hUCB transplantation improves post-TBI neuropsychological and imaging outcomes measures. [Time Frame: 6 months, 12 months, 24 months post cellular product infusion] [Designated as safety issue: No]					
Original Secondary Outcome Measures ICMJE	Same as current					
Current Other Outcome Measures ICMJE	Not Provided					
Original Other Outcome Measures ICMJE	Not Provided					

Descriptive Information

Brief Title ICMJE	Safety Study of Umbilical Cord Blood To Treat Pediatric Traumatic Brain Injury					
Official Title ICMJE	Safety of Autologous Human Umbilical Cord Blood Treatment for Traumatic Brain in Children					
Brief Summary	The purpose of this study is to determine if it is safe to use stored autologous Human Umbilical Cord Blood (hUCB) to treat pediatric patients that sustain a severe or moderate Traumatic Brain Injury (TBI), and have not fully recovered as measured by the Glasgow Outcome Score-Expanded (GOS-EC)/Child at 6 to 18 months post-injury.					

Detailed Description	Traumatic brain injury is the primary cause of pediatric trauma related morbidity and mortality. Currently there is no reparative therapeutic option available, and all interventions are designed to prevent injury progression or secondary brain injury. Pre-clinical data suggest that progenitor cellular infusions may reduce the severity of injury by a number of proposed mechanisms. The current study proposes a Phase 1 Safety Trial using stored autologous UCB to treat patients that sustain a severe or moderate TBI, and have not fully recovered as measured by the Glasgow Outcome Score-Expanded/Child at 6 to 18 months post-injury. We have chosen to use one bank that uses standardized processing and storage protocol to reduce cell product variability.
	Families who have banked hUCB at Cord Blood Registry, Inc. (CBR), will be prospectively notified of the possibility of using their child's stored UCB if they sustain a moderate or severe TBI and have a persistent deficit at 6-18 months. Prior to enrolling in the study, patients will have their medical records, imaging studies reviewed, and a telephone interview will determine potential eligibility and exclusion criteria. If eligible, the patients will travel to Houston to undergo a medical history and physical exam, neuropsychiatric evaluation, DT-MRI imaging of the brain, and baseline laboratory evaluation. The UCB will be shipped to the Center for Cell and Gene Therapy for reanimation and characterization/determination of release criteria of the cell product (contamination-free). The UCB will be infused intravenously and the patient will be monitored as an in-patient in the Pediatric Intensive Care Unit (PICU) located within Children's Memorial Hermann Hospital for 24 hours, after which the patient will be discharged but will return the next day for a final examination. Follow-up visits will occur back at UT-Houston at 180 days, 1 year and 2 years post-infusion - these visits will include medical history and physical exam, neurological and neuropsych evaluations, and DT-MRI imaging of the brain.
Study Type ICMJE	Interventional
Study Phase	Phase 1 Phase 2
Study Design ICMJE	Endpoint Classification: Safety/Efficacy Study Intervention Model: Single Group Assignment Masking: Open Label Primary Purpose: Treatment
Condition ICMJE	Traumatic Brain Injury
Intervention ICMJE	Biological: Autologous cord blood there is no minimum acceptable dose, and the maximum allowable dose will be 10x10(9)cells/kg given IV (in the vein), one time infusion
Study Arm (s)	Not Provided
Publications *	Not Provided

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

Recruitment Information				
Recruitment Status ICMJE	Recruiting			
Estimated Enrollment ICMJE	10			
Estimated Completion Date	December 2015			
Estimated Primary Completion Date	December 2014 (final data collection date for primary outcome measure)			
Eligibility Criteria ICMJE	 Inclusion Criteria: Hospital admission Glasgow Coma Score between 3 and 12 at the time of injury Injury occurring 6 to 18 months prior to study cord blood infusion (+/- 30 days) Ability of child and caregiver to travel to Houston, and stay for at least 4 days, and to return for all Follow-up visits Ability of child to understand (and speak) English Child's own cord blood banked at Cord Blood Registry 			

	Inability to obtain all pertinent medical records, including pertinent physician notes, laboratory find					
	and radiographic images, related to					
	Recent radiographic evidence of ex			•		
	Pre-injury history of seizure disorde		•	ent		
	 Obliteration of perimesencephalic cistern on initial head CT/MRI Initial hospital Intracranial Pressure (ICP) > 40 Unhealed fractures or wounds including osteomyelitis Pneumonia, or chronic lung disease requiring oxygen 					
	 Spinal cord injury as diagnosed by 	CT or MR im	aging or by clinic	al findings		
	 Cord blood sample contamination 					
	 Participation in a concurrent intervention study 					
Gender	Both					
Ages	18 Months to 17 Years					
Accepts Healthy Volunteers	No					
Contacts ICMJE	Contact: Steven C Kosmach, MSN, R	N, CCRC	713-500-7329	steven.kosmach@uth.tmc.edu		
	Contact: Fernando Jimenez, MS, RN		713-500-7395	fernando.jimenz@uth.tmc.edu		
Location Countries ICMJE	United States					
Administrative Information						
NCT Number ICMJE	NCT01251003					
Other Study ID Numbers ICMJE	HSC-MS-10-0061					
Has Data Monitoring Committee	Yes					
Responsible Party	Charles Cox, The University of Texas Health Science Center, Houston					
Study Sponsor ICMJE	Charles Cox					
Collaborators ICMJE	Not Provided					
Investigators ICMJE	Principal Investigator: Charles S C	Cox, Jr., MD	University of T	exas Medical School at Houston		
Information Provided By	The University of Texas Health Science Center, Houston					
Verification Date	August 2013					