## Blood and Marrow Transplant Clinical Trials Network

## 1507A (ENR)

Web Version: 1.0; 2.00; 03-02-18

Haplo	Sickle	Cell	<b>Enrollment</b>	Form:	Seamer	nt A

## Inclusion Criteria For Stratum 1: Children Ages 5.00 - 14.99 Years At Enrollment

1.	Has the patient exper	ienced a neurolo ? (HS CNEUIN)	ogical event result	ting in focal neu	ırologic deficits	☐ 1 - Yes	☐ 2 - No			
	2. Date of most rece lasting ≥ 24 hours		event resulting in	focal neurologi	deficits		(mm/dd/yyyy)			
	Has the patient experienced a focal neurological event resulting in abnorm T2-weighted or FLAIR images using an MRI scan, indicative of an acute in no other reasonable medical explanation? (HSCSTROK)				1 - Yes	2 - No				
	4. Date of most rece T2-weighted or F		•	•	ties on		(mm/dd/yyyy)			
	Was there clinical or radiologic evidence of a recent cerebral infarct by cerebral MRI/MRA within 30 days prior to enrollment? (HSCRECNE)						☐ 2 - No			
	Was the patient previously deferred for ≥ 6 months due to clinical or radiologic evidence of a recent cerebral infarct by cerebral MRI/MRA within 30 days prior enrollment?(HSCDEFER)				1 - Yes	2 - No				
	7. Record the date of (HSCMRIDT)	of the cerebral M	IRI/MRA with evid	ence of a cereb	oral infarct:		(mm/dd/yyyy)			
	8. Record the date of the cerebral infare			ith evidence of	stabilization of		(mm/dd/yyyy)			
	Inclusion Cri					- 45.99 At	Enrollmen	it		
	<ol> <li>Has the patient experienced a neurological event resulting in focal neurologic deficit that lasted ≥ 24 hours? (HSCNEURO)</li> </ol>				ırolo gic deficits	1 - Yes 2 - No 3 - Not Avai	lable			
	<ol> <li>Date of most recent neurological event resulting in focal neurologic deficits lasting ≥ 24 hours: (HSCNEUDT)</li> </ol>						(mm/dd/yyyy)			
11. Specify why neurological event information was not available: (HSCNEUSP)										
	<ol> <li>Has the patient experienced a focal neurological event resulting in abnormalities of T2-weighted or FLAIR images using an MRI scan, indicative of an acute infarct, with no other reasonable medical explanation? (HSCNEUEV)</li> </ol>					1 - Yes 2 - No 3 - Not Avai	lable			
	<ol> <li>Date of most recent focal neurological event resulting in abnormalities on T2-weighted or FLAIR images using an MRI scan: (HSCNEDT)</li> </ol>				ties on		(mm/dd/yyyy)			
	14. Specify why focal	neurological ev	ent information wa	as not available	:(HSCFNESP)					
	15. Does the patient have a history of two or more episodes of acute chest syndr (ACS) in the two-year period preceding enrollment despite the institution of supportive care measures (i.e. asthma therapy and/or hydroxyurea)? (HSCAC			on of	1 - Yes 2 - No 3 - Not Avai	lable				
	16. Date of ACS epis	odes:(HSCAC1L	OT)				(mm/dd/yyyy)	(HSCAC2DT)		(mm/dd/yyyy)
	17. Specify why ACS information was not available: (HSCACSSP)						(	, , , , ,		
18. Does the patient have a history of three or more severe vaso-occlusive pain cris per year in the two-year period preceding enrollment despite the institution of supportive care measures (i.e. a pain management plan and/or treatment with hydroxyurea); painful episodes related to priapism, osteone crosis or any sickle-related complication?(HSCVOC)				ution of ent with	1 - Yes 2 - No 3 - Not Avai	able				
		Start Date of Severe Pain Crisis #1				Date of Severe Pain Crisis #2 Start Date of Severe Pain C				
	19. 2 Years Prior	(HSC2P1DT)		(mm/dd/yyyy)	(HSC2P2DT)		(mm/dd/yyyy)	(HSC2P3DT)		(mm/dd/yyyy)
	20. 1 Year Prior	(HSC1P1DT)		(mm/dd/yyyy)	(HSC1P2DT)		(mm/dd/yyyy)	(HSC1P3DT)		(mm/dd/yyyy)

	21. Specify why pain crises in	nformation was not available: (HSCF	PCSP)									
22. Has the patient received ≥ 8 packed red blood cell (RBC) transfusions per year for ≥ 1 year in the 12 months before enrollment to prevent vaso-occlusive clinical complications (i.e. pain, stroke, and acute chest syndrome)?(HSCRBC)  1 - Yes 2 - No 3 - Not Available												
		Start Date of Transfusion	<del></del>									
	23. RBC Transfusion #1:	(HSCR1DT) (m	ım/dd/yyyy)									
	24. RBC Transfusion #2:	(HSCR2DT) (m	ım/dd/yyyy)									
	25. RBC Transfusion #3:	(HSCR3DT) (m	ım/dd/yyyy)									
	26. RBC Transfusion #4:	(HSCR4DT) (m	ım/dd/yyyy)									
	27. RBC Transfusion #5:	(HSCR5DT) (m	ım/dd/yyyy)									
	28. RBC Transfusion #6:	(HSCR6DT) (m	ım/dd/yyyy)									
	29. RBC Transfusion #7:	(HSCR7DT) (m	ım/dd/yyyy)									
	30. RBC Transfusion #8:	(HSCR8DT) (m	ım/dd/yyyy)									
		sion therapy information was not av	a ilable:									
32.	(HSCRBCSP)  Does the patient have an echvelocity (TRJV) ≥ 2.7m/sec?(	nocardiographic finding of tricuspid v (HSCTRJV)	valve regurgitant jet	☐ 1 - Yes ☐ 2 - No								
	33. Record TRJV: (HSCTRJV	/A)		(xx.x) m/sec								
	34. Date echo car diograph wa	as performed: (HSCECODT)	(mm/dd/yyyy)									
	Inclusion Criteria For Both Strata (Stratum 1 and Stratum 2)											
35.	Does the patient have Hemographic Thalassemia?(HSCHG)	globin SS disease (HbSS) or Hemog	globin S ° (HbS °)	1 - Yes 2 - No								
	36. Record the type of SCD:	(HSCSCTYP)		☐ 1 - Hemoglobin SS Disease (HbSS) ☐ 2 - Hemoglobin S ° (HbS °) Thalassemia								
37.	37. Performance status scale used to evaluate patient (Lansky for patients < 16 years ☐ 1 - Karnofsky ☐ 2 - Lansky old; Karnofsky for patients ≥ 16):(HSCPSS)											
	38. Record patient's performa	ance status: (HSCPSR)	01 - 100 (Normal; No Complaints/Fully Active) 02 - 90 (Normal Activity/Minor Restriction in Strenuous Play) 03 - 80 (Normal Activity with Effort/Restricted in Strenuous Play) 04 - 70 (Unable to Carry On Normal Activity/Less Time Spent in Play) 05 - 60 (Requires Occasional Assistance/Minimal Active Play) *Additional Options Listed Below									
	Cardiac Function											
39.	Record the type of cardiac fra	action test performed: (HS CCFT)		1 - Left Ventricular Ejection Fraction (LVEF) 2 - Shortening Fraction								
		tion fraction is reported as a range,	the lowest value sho	uld be recorded.								
	40. Left ventricular ejection fr	action:(HSCLVEF)		(xxx) % Date LV ejection fraction performed:(HSCLVEDT)  (mm/dd/yyyy)								
	If the left ventricular short 41. LV Shortening fraction: (H	rtening fraction is reported as a rang ISCLVSF)	ge, the lowest value s	chould be recorded.  (xxx) % Date LV shortening fraction performed: (HSCSFDT)  (mm/dd/yyyy)								
42.	Pulmonary Function Record patient's O <sub>2</sub> saturatio	n:(HSCO2SAT)		(vvv) 9/ Data Do contination of the imade // ISCOCODE								
			100)	(xxx) % Date O <sub>2</sub> saturation obtained: (HSCO2DT) (mm/dd/yyyy)								
43.	Record patient's DLCO value	(corrected for hemoglobin):(HSCD)	LCO)	(xxx) % Date DLCO value obtained:(HSCDLCDT) (mm/dd/yyyy)								
	Renal Function											

				Most Recent Value			Institutional ULN for Age			Date Sample Obtained				
	44.	Serum Creatinine (mg/dl	-)	(HSCSC	)	(x. xx)		(HSCSCULN)		(x. xx)	(HSCSCD	ח ר	(mm/dd/y	yyy)
	45.	Creatinin e Clearance (m	L/min/1.73m <sup>2</sup> )	(HSCCR	CL)	(xx	x.x)				(HSCCRD	r) [	(mm/dd/y	<i>yyy)</i>
6.	Hepatic Function  6. Does the patient have hyperbilirubinemia? (HS  47. If 'Yes', is the hyperbilirubinemia a result o hemoglob in post blood transfusion? (HSCI)		f hyperhen	nolysis	or a severe drop	in	1 - Yes 1 - Yes							
	Most recent value Institutional ULN f			I for Age	Da	te Sam	ple Obtained	l						
	48.	Direct Bil irubin (mg/dL)	(HSCBILI)		(x.x)	(HSCBILIU)		(x.x)	(HSCBILDT)		(m	m/dd/yyyy)	)	
	49.	ALT (units/L)	(HSCALT)		(xxx)	(HSCALULN)		(xxx)	(HSCALTDT)		(I	nm/dd/yyyy	<u>)</u>	
	50.	AST (units/L)	(HSCAST)		(xxx)	(HSCASULN)		(xxx)	(HSCASTDT)		(1	mm/dd/yyyy	y)	
<ol> <li>Is the patient currently receiving ≥ 8 packed red blood cell transfusions per year for ≥ 1 year or has the patient received ≥ 20 packed red blood cell transfusions (lifetime cumulative)?(HSCBRBC)</li> <li>Was a liver MRI performed using a validated methodology per institutional</li> </ol>						1 - Yes								
	co	eference (T 2* or R2* or b ntent? <i>(HSCLMRI)</i> . Record date of liver MR			suman	on of nepatic iroi			 (mm/dd/yyy					
		. Does the patient have s hepatic iron content ≥10	significant clinic	cal evidenc			nated	1 - Yes	2 - No	y)				
		55. Was a liver biopsy			):(1100	1200)		1 - Yes	☐ 2 - No					
56. Record date of liver biopsy: (HSCLBXDT)						(mm/dd/yyy	y)							
57. Did the gastroenterology/hep atology consultation and histological examination document the absence of cirrhosis, bridging fibrosis, and active hepatitis? (HS CCIRRH)						1 - Yes	2 - No							
8. Does the patient have a first-degree related HLA-haploidentical donor who is willing and able to donate bone marrow?(HSCHAPLO)						ling	☐ 1 - Yes	☐ 2 - No						
59. Date confirmatory typing completed: (HSCHLADT)						(mm/dd/yyy	y)							
	Exclusion Criteria													
0.	Does the patient have an HLA-matched sibling who is able and willing to donate bone marrow?(HSCHLAMS)					☐ 1 - Yes								
	I. Has the patient experienced an uncontrolled bacterial, viral, or fungal infection in the 6 weeks before enrollment (currently taking medication with evidence of progression of clinical symptoms or radiologic findings)?						1 - Yes	□ 2 - No						
2.	Does t	he patient have evidence HIV positive serology? (F	e of human imn			us (HIV) infection	or	☐ 1 - Yes	2 - No					
3.	Has th	e patient received a prev	ious hematopo	oietic stem	cell trar	nsplant (HCT)?		_ 1 - Yes	2 - No					
4.	Has th	e patient received a prior	r solid organ tra	ansplant?(/	HSCOF	RTXP)		☐ 1 - Yes	☐ 2 - No					
5.	Has the patient participated in another clinical trial in which the patient received an investigational or off-label use of a drug or device within 3 months of enrollment? (HSCCLTR)						1 - Yes	2 - No						
6.	Is the patient pregnant or breastfeeding?(HSCPREG)							☐ 2 - No ☐						
		patient pregnant or breas	•	,					2 - No	3 - N	ot Applicable	•		
	Does the patient have a clinically significant, uncontrolled autoimmune disease requiring active medical management (immunosuppressive therapy or chemotherapy), which, in the judgment of the local Principal Investigator, indicates that the patient could not tolerate transplantation?(HSCAIMM)						1 - Yes							
	age, u	patient a female of childb nless post-menopausal fo ally sterilized)? <i>(HSCFCB</i>	or a minimum o					1 - Yes	2 - No					
	70. If 'Yes', does the patient agree either (1) to practice 2 effective methods of contraception at the same time, or (2) to practice true abstinence when this is in line with the preferred and usual lifestyle of the subject, from the time of signing of informed consent through 12 months post-transplant? (HSCCONTR)					1 - Yes								
1.	Does the patient (even if surgically sterilized) agree to practice effective barrier contraception, or agree to practice true abstinence from the time of signing informed consent through 12 months post-transplant? (HSCMCONT)					1 - Yes	2 - No							
2.	2. Is there a presence of anti-donor specific HLA antibodies?(HSCANTI)						1 - Yes	☐ 2 - No						

	HLA antibody presence and specificity will be determined by solid phase immunoas: fluorescence intensity (MFI) is higher than the cut-off defined by each institution. Red DRB1 and MFI > 2000 for HLA-C, DQB1 and DPB1.		
	73. Date solid phase immuno assay performed to determine HLA antibody presence and specificity:(HSCIMMDT)		(mm/dd/yyyy)
	<ol> <li>Was MFI &gt; 1000 for donor specific antibody to HLA-A, -B, DRB1 and/or MFI &gt; 2000 for HLA-C, DQB1 and DPB1?(HSCMFI)</li> </ol>	1 - Yes 2 - Yes, App 3 - No	proved by Protocol Chair and/or Protocol Officer
	75. Date of Protocol Chair and/or Protocol Officer approval: (HSCAPDT)		(mm/dd/yyyy)
	Donor Inclusion Criteria		
76.	Is the donor willing to donate bone marrow?(HSCDWILL)	☐ 1 - Yes	□ 2 - No
77.	Does the donor meet in stitutional and protocol-specified criteria for donation? (HSCDCRIT)	1 - Yes	2 - No
	Donor Exclusion Criteria		
78.	Does the donor have a clinically significant hemoglobinopathy? (HSCHEM)	1 - Yes	□ 2 - No
	Consent for Use of Blood Samples for Optional Stud	dy-Specif	ic Research
79.	Did the patient give consent to provide blood samples for optional study-specific research?(HSCPSMPL)	☐ 1 - Yes	☐ 2 - No
	80. Date patient consented to optional study-specific research samples: (HSCPSMDT)		(mm/dd/yyyy)
	Donor Consent for Use of Blood Samples for Option	nal Study	-Specific Research
81.	Did the donor give consent to provide blood samples for optional study-specific research?(HSCDSMPL)	1 - Yes	2 - No
	82. Date do nor consented to optional study-specific research samples: (HSCDSMDT)		(mm/dd/yyyy)
	Comments:(HSCCOMM)		

## **Additional Selection Options for ENR** Record patient's performance status: 06 - 50 (Requires Considerable Assistance/No Active Play) 07 - 40 (Disabled/Able to Initiate Quiet Activities) 08 - 30 (Severely Disabled/Needs Assistance for Quiet Play) 09 - 20 (Very Sick/Limited to Very Passive Activity) 10 - 10 (Moribund; Completely Disabled)