

## Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Anasetti C, Logan BR, Lee SJ, et al. Peripheral-blood stem cells versus bone marrow from unrelated donors. *N Engl J Med* 2012;367:1487-96. DOI: 10.1056/NEJMoa1203517

## Appendix

Supplement to: Peripheral blood stem cells versus bone marrow from unrelated donors: results of Blood and Marrow Transplant Clinical Trials Network protocol 0201, a phase III, prospective, randomized trial. New England Journal of Medicine, 2012

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## **Description and responsibilities of the BMT CTN and the 0201 Study Protocol Team.**

### 1. Blood and Marrow Transplant Clinical Trials Network (BMT CTN) description:

The BMT CTN is funded through two divisions at the National Institutes of Health: The National Heart, Lung, and Blood Institute ([NHLBI](#)); and, The National Cancer Institute ([NCI](#)). The BMT CTN Data and Coordinating Center ([DCC](#)) maintains continuity of operations and facilitates effective communications. The DCC effort is a collaboration between:

- Center for International Blood and Marrow Transplant Research ([CIBMTR](#)) at the Medical College of Wisconsin
- National Marrow Donor Program ([NMDP](#))
- The EMMES Corporation ([EMMES](#))

### 2. Data and Coordinating Center Principal Investigators:

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All the other authors have contributed editing the paper to the present format.

10. The Publication Committee of the BMT-CTN that approved publication of this manuscript:

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2. John Wingard\* (January 1, 2012 - )
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13. Mary Horowitz\*
14. Nancy Poland

**\*Noted by the asterisk are authors of this paper who did not review the manuscript in the capacity of publication committee member.**

**Table S1A: Grade 3-5 Toxicities in the first 100 days**

<b>Toxicity</b>	<b>Bone Marrow # of patients experiencing events (%)</b>	<b>Peripheral Blood # of patients experiencing events (%)</b>
Grade 3-5 Hypotension	29 (11.0%)	29 (11.1%)
Grade 3-5 Left Ventricular Systolic dysfunction	12 (4.5%)	7 (2.7%)
Grade 3-5 Cardiac Arrhythmia	17 (6.4%)	12 (4.6%)
Grade 4-5 HUS/TTP/TMA	8 (3.0%)	9 (3.4%)
Grade 3-5 Mucositis	92 (34.8%)	83 (31.7%)
Grade 4-5 Hemorrhage	6 (2.3%)	8 (3.1%)
Grade 3-5 Hemorrhagic cystitis	18 (6.8%)	13 (5.0%)
Grade 3-5 Somnolence	33 (12.5%)	32 (12.2%)
Grade 3-5 Seizure	8 (3.0%)	1 (0.4%)
Grade 4-5 Vascular Leak Syndrome	3 (1.1%)	5 (1.9%)
Grade 3-5 Osteonecrosis	2 (0.8%)	3 (1.1%)
Grade 3-5 Vaginitis	2 (0.8%)	0 (0.0%)
Grade 3-5 Hypoxia	52 (19.7%)	54 (20.6%)
Grade 3-5 Dyspnea	52 (19.7%)	49 (18.7%)
Grade 3-5 Pulmonary fibrosis	5 (1.9%)	7 (2.7%)
Renal failure severe enough to warrant dialysis	21 (8.0%)	19 (7.3%)
Received dialysis	13 (4.9%)	10 (3.8%)
Experienced seizures	12 (4.5%)	6 (2.3%)
Abnormal liver function	91 (34.5%)	89 (34.0%)

**Table S1B: Grade 3-5 Toxicities between 100 days and 1 year**

<b>Toxicity</b>	<b>Bone Marrow # of patients experiencing events (%)</b>	<b>Peripheral Blood # of patients experiencing events (%)</b>
Grade 4-5 HUS/TTP/TMA	5 (2.2%)	4 (1.8%)
Grade 4-5 Hemorrhage	6 (2.7%)	6 (2.7%)
Grade 3-5 Osteonecrosis	7 (3.1%)	9 (4.0%)
Grade 3-5 Hypoxia	41 (18.2%)	37 (16.4%)
Grade 3-5 Dyspnea	51 (22.7%)	41 (18.1%)
Renal failure severe enough to warrant dialysis	15 (6.8%)	11 (5.0%)
Received dialysis	8 (3.7%)	3 (1.4%)
Abnormal liver function	63 (28.8%)	59 (26.7%)

**Table S2: BMT CTN 0201 Transplant Centers and Principal Investigators**

<b>Transplant Center</b>	<b>Principal Investigator(s)</b>
Baylor College of Medicine/The Methodist Hospital	Robert Krance, MD*; George Carrum, MD
Baylor University Medical Center	Edward Agura, MD
City of Hope National Medical Center	Auayporn Nademanee, MD
Cohen Children's Hospital*	Indira Sahdev, MD
DFCI/Brigham & Women's	Corey Cutler, MD, MPH, FRCPC
Duke University Medical Center - Adult BMT	Mitchell Eric Horwitz, MD; Joanne Kurtzberg, MD
Emory University	Edmund K. Waller, MD
Fred Hutchinson Cancer Research Center	Ann Woolfrey, MD
Hackensack Univ. Medical Center (A)	Scott Rowley, MD
Hackensack Univ. Medical Center (P)*	Joel Brochstein, MD
Hamilton Health Sciences - McMaster Site	Brian Leber, MD; Parveen Wasi, MD
Hopital Maisonneuve-Rosemont - Montreal	Jean Roy, MD
Indiana BMT at Beech Grove	Jan Jansen, MD, PhD
Loyola University Medical Center	Patrick Joseph Stiff, MD
Mayo Clinic – Rochester*	Shakila Khan, MD
Ohio State/Arthur G. James Cancer Hospital	Steven Devine, MD
Oregon Health & Science University (A)	Richard Maziarz, MD
Oregon Health & Science University (P)*	Eneida Nemecek, MD, MPH
Ottawa Hospital - General Campus	Lothar Huebsch, MD
Queen Elizabeth II Health Sciences Centre - Halifax	Stephen Couban, MD
Roswell Park Cancer Institute	Philip McCarthy, MD
Stanford Hospital and Clinics	Laura Johnston, MD
Texas Transplant Institute	Paul Shaughnessy, MD
Tom Baker Cancer Centre - Calgary	Lynn Savoie, MD
UCSD Medical Center	Edward Ball, MD
University of Alabama at Birmingham	William Vaughan, MD, MBA
University of CA, SF (Pediatric BMT)*	Morton Cowan, MD; Bilijana Horn, MD
University of Florida College of Medicine (Shands)	John Wingard, MD
University of Iowa Hospitals and Clinics	Margarida Silverman, MD
University of Kansas Hospital	Sunil Abhyankar, MD; Joseph McGuirk, MD
University of Maryland Medical Systems - Greenebaum Cancer Center	Saul Yanovich, MD
University of Michigan Medical Center	James Ferrara, MD
University of Minnesota	Daniel Weisdorf, MD
University of Nebraska Medical Center	Edward Faber, Jr., DO, MS
University of Oklahoma Medical Center	George Selby, MD*; Laura Marie Rooms, MD
University of Pennsylvania Cancer Center	David Porter, MD
University of Pittsburgh Cancer Institute	Mounzer Agha, MD
University of Texas/MD Anderson CRC	Paolo Anderlini, MD
University of Toronto - Princess Margaret Hospital*	Jeffrey Lipton, MD, PhD, FRCPC
Utah BMT/Primary Children's Medical Center*	Michael A. Pulsipher, MD
Utah BMT/Univ of Utah Med School	Michael A. Pulsipher, MD
Vancouver General Hospital	John Shepherd, MD, FRCPC; Cindy Toze, MD
Vanderbilt University Medical Center (A)	Adetola Kassim, MD
Vanderbilt University Medical Center (P)*	Haydar Frangoul, MD
Virginia Commonwealth University MCV Hospitals (A)	John McCarty, MD
Wake Forest University Health Sciences	David Hurd, MD
Washington University/Barnes Jewish Hospital	John DiPersio, MD, PhD; Peter Westervelt, MD, PhD
Washington University/St. Louis Children's Hospital*	Shalini Shenoy, MD

\*Pediatric Blood and Marrow Transplant Consortium Centers



**Table S3: BMT CTN 0201 Donor Centers and Principal Investigators**

<b>Donor Center</b>	<b>Principal Investigator(s)</b>
Baylor University Medical Center	Edward Agura, MD
Blood Assurance, Inc.	Elizabeth Culler
Blood Bank of San Bernardino & Riverside Counties	Frederick Axelrod, MD; Linda Chambers, MD
Blood Center of New Jersey	Eric Senaldi, MD
Blood Centers of the Pacific	Kim-Anh Nguyen, MD, PhD
BloodSource	Edgar Engelman, MD
C.W. Bill Young Marrow Donor Center	Robert Hartzman, MD
Carter BloodCare	Laurie Sutor, MD
Central Kentucky Blood Center	Larry Dickson, MD
City of Hope National Med Center	Auayporn Nademane, MD
Community Blood Center	Ghada Khalife, MD
Community Blood Centers of South Florida, Inc.	Bruce A. Lenex, MD
Cook Children's Medical Center	Gretchen Eames, MD
Cooperative Appalachian Marrow Donor Program	David Sibley, MD; Peter Gale, MD
Dana-Farber Cancer Institute	Joseph Antin, MD
DKMS	Gerhard Ehninger, MD
Florida's Blood Centers, Inc.	Neil R. Newberg, MD, FACP; Richard Gammon, MD; Matthew Montgomery
Florida's Blood Services, Inc.	Buff Mair, MD
Gulf Coast Regional Blood Center	Susan Rossmann, MD
Hawaii Bone Marrow Donor Registry	Randal Wada, MD
Indiana Blood Center	Dan Waxman, MD
Inland Northwest Blood Center	Robert Ranlett, MD
Iowa Marrow Donor Program	Margarida Silverman, MD
James Graham Brown Cancer Center	Geoffrey Herzig, MD
LifeSouth Community Blood Centers	Marek Fried, MD
Michigan Community Blood Centers	Elizabeth Atkinson, MD; LeeAnn Weitekamp MD
Mississippi Marrow Donor Program	Carolyn Bigelow, MD
NMDP at Great Lakes Region	John P. Miller, MD, PhD
NMDP at Greater New York State	John P. Miller, MD, PhD
NMDP at Greater Southeast Area	John P. Miller, MD, PhD
NMDP at Greater Southeast Area	John P. Miller, MD, PhD
NMDP at Heart of America Donor Center	John P. Miller, MD, PhD
NMDP at Northern California	John P. Miller, MD, PhD
NMDP at Northern Ohio and Indiana Area	John P. Miller, MD, PhD
NMDP at Omaha and Tulsa Area	John P. Miller, MD, PhD
NMDP at Oregon/SW Washington	John P. Miller, MD, PhD
NMDP at Penn-Jersey Region	John P. Miller, MD, PhD
NMDP at Southern California	John P. Miller, MD, PhD
NMDP at St. Paul	John P. Miller, MD, PhD
NMDP at Virginia Blood Services	John P. Miller, MD, PhD
NMDP at Washington DC Metro Region	John P. Miller, MD, PhD
NMDP of New England	John P. Miller, MD, PhD
NMDP Puerto Rico Blood Services	John P. Miller, MD, PhD
Puget Sound Blood Center	Thomas Price, MD
Rhode Island Blood Center	Carolyn Young, MD
Rock River Valley Blood Center	Roger Hilbert, MD
San Diego Blood Bank	David Oh, MD
Scott & White Clinic	Christian Cable, MD
Slyvan N. Goldman Center Oklahoma Blood Institute	James W. Smith, MD
South Texas Blood and Tissue Center	Norman D. Kalmin, MD
St. Alphonsus Marrow Donor Registry	Karl Schultheiss, MD
St. Luke's MSTI	Thomas Beck, MD
The Blood Center	Michael W. Lankiewicz, MD
The HLA Registry	David Sharp, MD