

# REPORT DOCUMENTATION PAGE

*Form Approved*  
**OMB No. 0704-0188**

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.**

<b>1. REPORT DATE (DD-MM-YYYY)</b> 04/14/2023		<b>2. REPORT TYPE</b> Interim Technical Report		<b>3. DATES COVERED (From - To)</b> January – March 2023	
<b>4. TITLE AND SUBTITLE</b> Development of Medical Technology for Contingency Response to Marrow Toxic Agents – Interim Technical Report with SF298 January 1, 2023 – March 31, 2023			<b>5a. CONTRACT NUMBER</b> N/A		
			<b>5b. GRANT NUMBER</b> N00014-21-1-2954		
			<b>5c. PROGRAM ELEMENT NUMBER</b> N/A		
<b>6. AUTHOR(S)</b> Spellman, Stephen			<b>5d. PROJECT NUMBER</b> N/A		
			<b>5e. TASK NUMBER</b> Project 1, 2, 3, 4		
			<b>5f. WORK UNIT NUMBER</b> N/A		
<b>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)</b> National Marrow Donor Program 500 N. 5 <sup>th</sup> St. Minneapolis, MN 55401-1206			<b>8. PERFORMING ORGANIZATION REPORT NUMBER</b> N/A		
<b>9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)</b> Office of Naval Research 875 N. Randolph Street, Suite 1425 Arlington VA 22203-1995			<b>10. SPONSOR/MONITOR'S ACRONYM(S)</b> ONR		
			<b>11. SPONSORING/MONITORING AGENCY REPORT NUMBER</b> N/A		
<b>12. DISTRIBUTION AVAILABILITY STATEMENT</b> Approved for public release; distribution is unlimited					
<b>13. SUPPLEMENTARY NOTES</b> N/A					
<b>14. ABSTRACT</b> <p><u>1. Contingency Preparedness:</u> Collect information from transplant centers, build awareness of the Transplant Center Contingency Planning Committee and educate the transplant community about the critical importance of establishing a nationwide contingency response plan.</p> <p><u>2. Rapid Identification of Matched Donors:</u> Increase operational efficiencies that accelerate the search process and increase patient access are key to preparedness in a contingency event.</p> <p><u>3. Immunogenic Studies:</u> Increase understanding of the immunologic factors important in HSC transplantation.</p> <p><u>4. Clinical Research in Transplantation:</u> Create a platform that facilitates multicenter collaboration and data management.</p>					
<b>15. SUBJECT TERMS</b> Research in HLA Typing, Hematopoietic Stem Cell Transplantation and Clinical Studies to Improve Outcomes					
<b>16. SECURITY CLASSIFICATION OF:</b>			<b>17. LIMITATION OF ABSTRACT</b>	<b>18. NUMBER OF PAGES</b>  19	<b>19a. NAME OF RESPONSIBLE PERSON</b> Jeffery Auletta, M.D. - Sr Vice President and Chief Scientific Director
<b>a. REPORT</b> U	<b>b. ABSTRACT</b> U	<b>c. THIS PAGE</b> U			<b>19b. TELEPHONE NUMBER (Include area code)</b> 763-406-4730

Grant Award N00014-21-1-2954

DEVELOPMENT OF MEDICAL TECHNOLOGY  
FOR CONTINGENCY RESPONSE TO MARROW TOXIC AGENTS  
QUARTERLY RESEARCH PERFORMANCE REPORT  
SUBMITTED April 14, 2023

Office of Naval Research

And

The National Marrow Donor Program®

500 5<sup>th</sup> St N

Minneapolis, MN 55401

## **I. Heading**

PI: Jeffrey Auletta, M.D.

National Marrow Donor Program

N00014-21-1-2954

Development of Medical Technology for Contingency Response to Marrow Toxic Agents

## **II. Scientific and Technical Objectives**

The main goal of all activities funded through this grant is to develop, test and mature the ability of the NMDP Coordinating Center and NMDP contracted network sites network sites to address contingency events wherein civilian or military personnel are exposed to marrow toxic agents, primarily ionizing radiation or chemical weapons containing nitrogen mustard. As a result of prior efforts in this regard a solid foundation has been established. The proposed new activities will continue to enhance and expand our capabilities in each of the four focus areas. Contingency preparedness activities will continue to integrate NMDP's role with federal, state and local agencies.

An accident, a military incident, or a terrorist act in which a number of individuals are exposed to marrow toxic agents will result in injuries from mild to lethal. But the extent of individual injuries and the likelihood of recovery in many cases will not be apparent until days or weeks after the event. Casualties will be triaged by first responders, and those with major marrow injuries who will need aggressive medical support and may be ultimately candidates for hematopoietic cell transplantation (HCT) will need to be identified. While these patients are being supported, HCT donor identification activities will be initiated because it will not be initially clear which ones may ultimately require HCT. NMDP-approved transplant centers will provide a uniform and consistent clinical foundation for receiving, evaluating and caring for casualties. NMDP Coordinating Center will orchestrate the selection and testing necessary to rapidly identify the best available donor or cord blood unit for each patient utilizing its state-of-the-art communication infrastructure, sample repository, laboratory network, and human leukocyte antigen (HLA) expertise. NMDP's on-going immunobiologic, bioinformatics and clinical research activities promote studies to advance the science and technology of HCT transplantation to improve outcome and quality of life for the patients.

Importantly, most individuals with near-lethal marrow toxic injuries will recover their own marrow function provided they receive intensive supportive care from the medical professionals that are part of the contingency response community.<sup>1</sup> These professionals can save the lives of persons with severe marrow suppression using the knowledge and skills practiced every day to treat patients undergoing HCT coordinated through the NMDP.

## **III. Approach**

### **A. Contingency Preparedness**

HCT teams are uniquely positioned to care for the casualties of marrow toxic injuries. The NMDP manages a network of centers that work in concert to facilitate unrelated HCT. The Radiation Injury Treatment Network (RITN), comprised of a subset of NMDP's network centers, is dedicated to radiological disaster preparedness activities and develops procedures for response to marrow toxic mass casualty incidents.

**B. Development of Science and Technology for Rapid Identification of Matched Donors**

Disease stage at the time of transplantation is a significant predictor of survival, decreasing the time to identify the best matched donor is critical. Methods are under development to rapidly provide the best matched donor for HCT.

**C. Immunogenetic Studies in Transplantation**

Improving strategies to avoid and manage complications due to graft alloreactivity is essential to improve the outcomes of HCT. Research efforts are focused on strategies to maximize disease control while minimizing the toxicity related to alloreactivity in HCT.

**D. Clinical Research in Transplantation**

Clinical research creates a platform that facilitates multi-center collaboration and data management to address issues important for managing radiation exposure casualties. Advancing the already robust research capabilities of the NMDP network will facilitate a coordinated and effective contingency response.

**IV. Updates**

**A. Contingency Preparedness**

---

*Maintain the Radiation Injury Treatment Network (RITN) to prepare for the care of patients resulting from a hematopoietic toxic event*

---

- **Radiation disaster and countermeasure research education**
  - Radiation Emergency Assistance Center/Training Site (REAC/TS) training courses
    - REAC/TS training course sponsorship has been canceled as different training opportunities were created which have the option for wider audience participation.
      - Sponsoring physicians, advanced practitioners, health physicists, and other applicable RITN hospital staff to attend hands-on training course in Oak Ridge, TN at the REAC/TS facility.
        - Radiation Emergency Medicine is a 3-day course.
        - Advanced Radiation Emergency Medicine is a 4.5-day course.
        - Health Physics in Radiation Emergencies is a 4.5-day course.
      - The goal is to have participants share their knowledge with colleagues after attending the applicable course.
  - Advanced HAZMAT Life Support Radiological Incidents & Terrorism courses
    - Four additional RITN hospitals will host two 4-hour sessions on radiological incidents and terrorism.
    - This is in addition to the one RITN hospital in the FY2023 budget (West Virginia University Hospital, Morgantown, WV).

- Additional hospitals:
    - Corewell Health (Grand Rapids, MI)
    - University of Wisconsin (Madison, WI)
    - Orlando Health, (Orlando, FL)
    - Temple University (Philadelphia, PA)
- **Radiation disaster preparedness training**
  - Activity under this section is complete.
- **Hospital radiation disaster preparedness**
  - Additional exercises will be created and conducted, helping to prepare additional hospitals and hospital coalitions.
- **Hospital network growth:**
  - Activity under this section is complete and will continue under a subsequent award.
- **Federal partnership development:**
  - Activity under this section is complete
- **Other projects:**
  - Activity under this section is complete.

**B. Development of Science and Technology for  
Rapid Identification of Matched Donors**

---

*Expand the genetic diversity of the registry through continued addition of adult donors and cord blood units, utilizing high volume HLA typing methodologies*

---

During the past quarter, a total of 14,070 newly registered volunteer donors were HLA typed and added to the Be The Match Registry.

---

*Modeling and analysis of registry coverage for the Warfighter*

---

Activity under this grant is complete and will continue under a subsequent award.

---

*Development of science and technology for rapid communication of HLA data*

---

Activity under this grant is complete and will continue under a subsequent award.

Activity under this grant is complete and will continue under a subsequent award.

### **C. Immunogenetic Studies in Transplantation**

---

*Evaluate HLA disparity and impact on HCT by adding selected pairs to the Donor/Recipient Pair project utilizing sample selection criteria that optimize the new data generated by the typing project*

---

Activity under this grant is complete and will continue under a subsequent award.

---

*Development of a national framework to standardize measurable residual disease evaluation in the clinical care of patients receiving allogeneic transplant for acute myeloid leukemia*

---

While allogeneic HCT is a curative therapy for many patients with acute myeloid leukemia (AML), the risk of relapse even after achieving a cytomorphological complete remission (CR) is the most common form of treatment failure and death. Transplant-related morbidity and mortality is a major obstacle for the effective use of alloHCT, resulting in the potential under- or over-utilization of conditioning regimen intensity to prevent AML relapse. The presence of residual leukemic burden, known as measurable residual disease (MRD), prior to transplant is associated with worse outcomes after transplantation. AML MRD testing is not standardized, and no clear path to translate findings from research laboratories to clinical transplant settings currently exists.

A multicenter prospective observational study was launched in 2022 to address this issue by developing a coordinated national framework to 1) allow collection of leftover initial AML diagnosis material from patients who have received alloHCT in US centers, 2) prospectively collect samples from AML patients after alloHCT to determine optimal timing and method for post-alloHCT MRD monitoring and 3) implement findings from phases 1 and 2, together with a central reference laboratory, to allow local centers to perform standardized MRD testing pre or post alloHCT. This would allow both selection of conditioning intensity, but also inform post-transplant maintenance and allow patient selection for novel clinical trials.

During the past quarter the protocol team continued to meet regularly to manage the IRB approved and [ClinicalTrials.gov](https://clinicaltrials.gov) registered study protocol entitled, “MEASURE: Molecular Evaluation of AML patients after Stem cell transplant to Understand Relapse Events”. To date, 18 centers have committed to participate in the study and combined plan to enroll >250 patients per year. Thirteen of 18 sites have received local IRB approval for the protocol. All sites have initiated submission of regulatory documents required for participation. Eight sites have fully opened the study and have enrolled 13 patients.

---

*Determine the impact of peripheral blood stem cell graft composition on the outcome of hematopoietic cell transplantation*

---

While allogeneic HCT offers potentially curative therapy to patients with a variety of benign and malignant diseases, both acute and chronic GVHD continue to plague the field and often limit the longevity and quality of life for patients. The composition of PBSC grafts has been evaluated in multiple studies to attempt to discern associations between various cellular subsets and outcomes. The BMT CTN 0201 randomized trial of bone marrow versus PBSC found that PBSC grafts were associated with a higher risk of cGVHD and worse quality of life following unrelated donor HCT compared to BM. A correlative study of graft immunophenotype failed to identify any associations between PBSC graft composition and outcomes. However, the PBSC cohort included only 147 evaluable products limiting the power to evaluate various cellular subsets. The association between PBSC graft immunophenotype and outcomes remains unclear.

The primary aim of this study is to evaluate PBSC graft stem cell and associated immune cell composition and to determine at 12-months of follow-up how either the comprehensive graft cellular composition profile or specific graft composition elements influences the primary outcomes of time to neutrophil engraftment and overall survival. Secondary outcomes of interest include, but not limited to, incidence of acute and chronic GVHD, primary disease relapse, TRM, and DFS. The study will evaluate approximately 2,100 PBSC products over a 3-year accrual period with 1,100 collected in the U.S. through the NMDP and an additional 1,000 collected in Germany for U.S. based patients through the DKMS. The U.S. testing will be supported through the ONR (prior grant years and the current) and DKMS will support testing of German collected products. Data will be merged with CIBMTR collected clinical outcomes for analysis and correlation with clinical outcomes.

During the past quarter accrual continued for U.S. based donors. A total of 365 product samples were received and tested through March 31, 2023, with 71 tested in the last quarter. Testing costs are covered under a subsequent grant while staff support is funded under this grant. Testing of German donors will be fully funded by DKMS Testing costs are covered under this grant while staff support is funded under a subsequent grant.

---

*Even when patient and donor are HLA matched, post-transplant complications occur, therefore, other loci may play a role*

---

Activity under this grant is complete and will continue under a subsequent award.

## D. Clinical Research in Transplantation

---

*Conduct clinical outcomes research using the CIBMTR research database and repository.*

---

### Observational Research

- Published 14 manuscripts in peer-reviewed journals during the last quarter (see publications below).
- A total of 21 abstracts were presented at the 2023 BMT Tandem Meetings of the CIBMTR and American Society for Transplant and Cellular Therapy held February 15-19 in Orlando, FL. Presentation titles and type are detailed in table 1 below. Abstracts were published in a [supplement](#) to the Journal of Transplant and Cellular Therapy.

**Table 1. CIBMTR presentations at 2023 BMT Tandem Meetings**

Title	Status
Posttransplant Cyclophosphamide-Based Transplantation from Haploidentical Donors Has Similar Outcomes As Unrelated Donor Transplantation in Myelofibrosis: A Center for International BMT Research (CIBMTR) Study	Oral
Comparison of Allogeneic Hematopoietic Cell Transplantation Outcomes from Younger Matched Unrelated Donor Versus Older Sibling Donor for Acute Myeloid Leukemia	Oral
Younger Matched Unrelated Donors Confer a Decreased Relapse Risk As Compared to Older Sibling Donors for Adult B-Cell ALL Patients Undergoing Allogeneic Hematopoietic Cell Transplantation	Oral
Associations of Minor Histocompatibility Antigens with Clinical Outcomes Following Allogeneic Hematopoietic Cell Transplantation	Oral
Improved Relapse-Free Survival (RFS) for Pediatric and Young Adult Patients with Relapsed or Refractory (R/R) B-Cell Acute Lymphoblastic Leukemia (B-ALL) and Low or Intermediate Preinfusion Disease Burden Treated with Tisagenlecleucel: Results from the CIBMTR Registry	Oral
Shared Graft Versus Leukemia Minor Histocompatibility Antigens in Discovery-BMT	Oral

Title	Status
HLA Evolutionary Divergence Does Not Predict Relapse and Survival Following Allogeneic Hematopoietic Stem Cell Transplant for Myeloid and Lymphoid Malignancies	Poster
Impact of Public Reporting of Center-Specific Analysis Scores on Hematopoietic Cell Transplant Center Volumes	Poster
Access: A Multi-Center, Phase II Trial of HLA-Mismatched Unrelated Donor Hematopoietic Cell Transplantation with Post-Transplantation Cyclophosphamide for Patients with Hematologic Malignancies	Poster
An Exploration of Unrelated Donor Existence for Patients Who Received Haploidentical Hematopoietic Cell Transplants	Poster
Association between Patient-Reported Social Determinant of Health Outcomes and a Social Genomics Profile in Allogeneic Hematopoietic Cell Transplantation: A Center for International Blood and Marrow Transplant Research (CIBMTR) Analysis	Poster
Can You Spare 100 Days? The Allogeneic Hematopoietic Cell Transplant Caregiver Requirement	Poster
Can You Spare 100 Days? Allogeneic Hematopoietic Cell Transplant Caregiver Requirements from the Perspective of Recipients and Caregivers	Poster
Does Race/Ethnicity Impact Umbilical Cord Blood Transplant in a Contemporary Era?	Poster
Delayed CD4+ T Cell Recovery after Allogeneic Hematopoietic Cell Transplantation Is Associated with Decreased Overall Survival in Adult but Not Pediatric Recipients	Poster
Patient-Reported Outcomes in Long-Term Survivors of Autologous Hematopoietic Cell Transplantation (AHCT) for Hodgkin (HL) and Non-Hodgkin Lymphoma (NHL): Secondary Analysis from Two Multicenter Randomized Controlled Trials (RCT) of Hematopoietic Cell Transplant Survivorship Interventions	Poster
Ph-Positive ALL Patients Who Are Treated with Tyrosine Kinase Inhibitors Have Similar Post-Transplant Survival As Ph-Negative Patients	Poster
Ongoing Risk of Unrelated Donors Testing Positive for COVID-19 Following Medical Clearance and Impact on Operations: A Report from the National Marrow Donor Program	Poster
Trends in Utilization of Autologous and Allogeneic Hematopoietic Cell Transplantation in Racial/Ethnic Minorities	Poster
Disease-Specific Overall Survival Prediction after Allogeneic Hematopoietic Cell Transplantation	Poster
A Retrospective Analysis of Genotype Copy Number (GCN) in Unrelated Donor Transplants and Future Implications for Mismatched Transplants	Poster

## Publications

1. Pasvolsky O, Yeshurun M, Fraser R, et al. Maintenance therapy after second autologous hematopoietic cell transplantation for multiple myeloma. A CIBMTR analysis. *Bone Marrow Transplantation*. doi:10.1038/s41409-021-01455-y. Epub 2021 Oct 4. Impact Factor: 5.48
2. Bhatt VR, Wang T, Chen K, et al. Chronic Graft-Versus-Host Disease, Non-Relapse Mortality and Disease Relapse in Older versus Younger Adults Undergoing Matched Allogeneic Peripheral Blood Hematopoietic Cell Transplantation: A CIBMTR Analysis. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2021.10.002. Epub 2021 Oct 9. Impact Factor: 5.60
3. Cancio M, Hebert K, Kim S, et al. Outcomes in hematopoietic stem cell transplantation for congenital amegakaryocytic thrombocytopenia. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2021.10.009. Epub 2021 Oct 17. Impact Factor: 5.60
4. Hamadani M, Gopal AK, Pasquini MC, et al. Allogeneic Transplant and CAR-T Therapy After Autologous Transplant Failure in DLBCL: A Noncomparative Cohort Analysis. *Blood Advances*. doi:10.1182/bloodadvances.2021005788. Epub 2021 Oct 21. Impact Factor: 6.79
5. Cusatis R, Flynn KE, Vasu S, Pidala J, Muffly L, Uberti J, Tamari R, Mattila D, Mussetter A, Bruzauskas R, Chen M, Leckrone E, Myers J, Mau L-W, Rizzo JD, Saber W, Horowitz M, Lee SJ, Burns LJ, Shaw B. Adding centralized electronic patient-reported outcome data collection to an established international clinical outcomes registry. *Transplantation and Cellular Therapy*. 2022 Feb 1; 28(2):112.e1-112.e9. doi:10.1016/j.jtct.2021.10.016. Epub 2021 Oct 29. PMC8915447. Impact Factor: 5.60
6. Phelan R, Im A, Hunter RL, Inamoto Y, et al. Male-specific late effects in adult hematopoietic cell transplantation recipients: a systematic review from the Late Effects and Quality of Life Working Committee of the Center for International Blood and Marrow Transplant Research and Transplant Complications Working Party of the European Society of Blood and Marrow Transplantation. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2021.10.013. Epub 2021 Oct 29. Impact Factor: 5.60
7. Fuchs EJ, McCurdy SR, Solomon SR, et al. HLA informs risk predictions after haploidentical stem cell transplantation with post-transplantation cyclophosphamide. *Blood*. doi:10.1182/blood.2021013443. Epub 2021 Nov 1. Impact Factor: 22.11
8. Zou J, Wang T, He M, Bolon YT, et al. Number of HLA mismatched eplets is not associated with major outcomes in haploidentical transplantation with post-transplantation cyclophosphamide: A Center for International Blood and Marrow Transplant Research Study. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2021.11.001. Epub 2021 Nov 11. Impact Factor: 5.60

9. O' Donnell PV, Brunstein CG, Fuchs EJ, et al. Umbilical cord blood or HLA-haploidentical transplantation: Real world outcomes vs randomized trial outcomes. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2021.11.002. Epub 2021 Nov 11. Impact Factor: 5.60
10. Sidana S, Kumar S, Fraser R, et al. Impact of induction therapy with VRD vs. VCD on outcomes in patients with multiple myeloma in partial response or better undergoing upfront autologous stem cell transplantation. *Transplantation and Cellular Therapy*. doi:DOI: 10.1016/j.jtct.2021.10.022. Epub 2021 Nov 12. Impact Factor: 5.60
11. Martin PJ, Levine DM, Storer BE, Zheng X, Jain D, Heavner B, Norris BM, Geraghty DE, Spellman SR, Sather CL, Wu F, Hansen JA. A model of minor histocompatibility antigens in allogeneic hematopoietic cell transplantation. *Frontiers in Immunology*. 12:782152. doi:10.3389/fimmu.2021.782152. Epub 2021 Nov 18. PMC8636906. Impact Factor: 6.42
12. Tan CR, Estrada-Merly N, Landau H, et al. A second autologous hematopoietic cell transplantation is a safe and effective salvage therapy in select relapsed or refractory AL amyloidosis patients. *Bone Marrow Transplantation*. doi:10.1038/s41409-021-01527-z. Epub 2021 Nov 20. Impact Factor: 5.48
13. Meyers G, Hamadani M, Martens MJ, et al. Lessons learned from early closure of a clinical trial for steroid-refractory acute GVHD Bone Marrow Transplantation. doi:10.1038/s41409-021-01529-x. Epub 2021 Nov 23. Impact Factor: 5.48
14. Luznik L, Pasquini M, Logan B, et al. Randomized Phase III BMT CTN Trial of Calcineurin Inhibitor-Free Chronic Graft-Versus-Host Disease Interventions in Myeloablative Hematopoietic Cell Transplantation for Hematologic Malignancies. *Journal of Clinical Oncology*. doi:10.1200/JCO.21.02293. Epub 2021 Dec 2. Impact Factor: 44.54
15. Hamadani M, Ngoya M, Sureda A, et al. Outcome of allogeneic transplantation for mature t-cell lymphomas: impact of donor source and disease characteristics. *Blood Advances*. doi:10.1182/bloodadvances.2021005899. Epub 2021 Dec 3. Impact Factor: 6.79
16. Epperla N, Hamadani M. Double-refractory Hodgkin lymphoma: tackling relapse after brentuximab vedotin and checkpoint inhibitors. *Hematology / the Education Program of the American Society of Hematology*. 2021 Dec 10; 2021(1):247-253. doi:10.1182/hematology.2021000256. Epub 2021 Dec 10. Impact Factor: 3.06
17. Schetelig J, Baldauf H, Koster L, et al. Corrigendum: Haplotype motif-based models for kir-genotype informed selection of hematopoietic cell donors fail to predict outcome of patients with myelodysplastic syndromes or secondary acute myeloid leukemia. *Frontiers in Immunology*. 2021 Dec 21; 12:813838. doi:10.3389/fimmu.2021.813838. Epub 2021 Dec 21. Impact Factor: 7.56

18. Iqbal M, Savani BN, Hamadani M. New indications and platforms for CAR-T therapy in lymphomas beyond DLBCL. *EJHaem*. 2022 Jan 1; 3(Suppl 1):11-23. doi:10.1002/jha2.323. Epub 2022 Jan 1. Impact Factor: 2.99
19. Martin PJ, Levine D, Storer BE, et al. Genetic associations with immune-mediated outcomes after allogeneic hematopoietic cell transplantation. *Blood Advances*. doi:10.1182/bloodadvances.2021005620. Epub 2022 Jan 7. Impact Factor: 5.48
20. Guru Murthy GS, Kim S, Hu Z-H, et al. Relapse and disease-free survival in patients with myelodysplastic syndrome undergoing allogeneic hematopoietic cell transplantation using older matched sibling donors vs younger matched unrelated donors. *JAMA Oncology*. doi:10.1001/jamaoncol.2021.6846. Epub 2022 Jan 13. Impact Factor: 31.77
21. Xu Y, Kim S, Zhang M-J, et al. Competing risks regression models with covariates-adjusted censoring weight under the generalized case-cohort design. *Lifetime Data Analysis*. doi:10.1007/s10985-022-09546-8. Epub 2022 Jan 15. Impact Factor: 1.58
22. Kim S, Kim J-K, Ahn KW. A calibrated Bayesian method for the stratified proportional hazards model with missing covariates. *Lifetime Data Analysis*. doi:10.1007/s10985-021-09542-4. Epub 2022 Jan 16. Impact Factor: 1.58
23. Murthy HS, Ahn KW, Estrada-Merly N, et al. Outcomes of allogeneic hematopoietic cell transplantation in T-cell prolymphocytic leukemia: a contemporary analysis from the Center for International Blood and Marrow Transplant Research. *Transplantation and Cellular Therapy*. 2022 Feb 8; 6(3):920-930. doi:10.1016/j.jtct.2022.01.017. Epub 2022 Jan 23. Impact Factor: 5.60
24. Hu Z-H, Wang H-L, Gale RP, et al. Correction to: A SAS macro for estimating direct adjusted survival functions for time-to-event data with or without left truncation. *Bone Marrow Transplantation*. doi:10.1038/s41409-021-01533-1. Epub 2022 Feb 1. Impact Factor: 5.48
25. Savani M, Ahn KW, Chen Y, et al. Impact of conditioning regimen intensity on the outcomes of peripheral T-cell lymphoma, anaplastic large cell lymphoma and angioimmunoblastic T-cell lymphoma patients undergoing allogeneic transplant. *British Journal of Haematology*. doi:10.1111/bjh.18052. Epub 2022 Feb 2. Impact Factor: 6.99
26. Mei M, Hamadani M, Ahn KW, et al. Autologous hematopoietic cell transplantation in diffuse large B-cell lymphoma after 3 or more lines of prior therapy: evidence of durable benefit. *Haematologica*. doi:10.3324/haematol.2021.279999. Epub 2022 Feb 3. Impact Factor: 9.94
27. Dispenzieri A, Krishnan A, Arendt B, et al. Mass-Fix better predicts for PFS and OS than standard methods among multiple myeloma patients participating on the STAMINA trial (BMT CTN 0702 /07LT) *Blood Cancer Journal*. 2022 Feb 10; 12(2):27. doi:10.1038/s41408-022-00624-6. Epub 2022 Feb 10. Impact Factor: 11.03

28. Stewart MD, McCall B, Pasquini M, et al. Need for aligning the definition and reporting of cytokine release syndrome (CRS) in immuno-oncology clinical trials. *Cytotherapy*. doi:10.1016/j.jcyt.2022.01.004. Epub 2022 Feb 23. Impact Factor: 5.41
29. Petersdorf EW, Bengtsson M, Horowitz MM, et al. HLA-DQ heterodimers in hematopoietic-cell transplantation. *Blood*. doi:10.1182/blood.2022015860. Epub 2022 Mar 10. Impact Factor: 23.63
30. St. Martin A, Hebert KM, Serret-Larmande A, et al. Long-term survival after hematopoietic cell transplant for sickle cell disease compared to the United States population. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.03.014. Epub 2022 Mar 14. Impact Factor: 5.60
31. Abou-Ismaïl MY, Fraser R, Allbee-Johnson M, et al. Does recipient body mass index inform donor selection for allogeneic haematopoietic cell transplantation? *British Journal of Haematology*. doi:10.1111/bjh.18108. Epub 2022 Mar 14. Impact Factor: 5.67
32. Jimenez Jimenez AM, De Lima M, Komanduri KV, et al. Correction to: An adapted European LeukemiaNet genetic risk stratification for acute myeloid leukemia patients undergoing allogeneic hematopoietic cell transplant. A CIBMTR analysis. *Bone Marrow Transplantation*. doi:10.1038/s41409-022-01625-6. Epub 2022 Mar 16. Impact Factor: 5.48
33. Patel SS, Ahn KW, Khanal M, et al. Non-infectious pulmonary toxicity after allogeneic hematopoietic cell transplantation. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.03.015. Epub 2022 Mar 18. Impact Factor: 5.60
34. Baccarani M, Bonifazi F, Soverini S, et al. Questions concerning tyrosine kinase-inhibitor therapy and transplants in chronic phase chronic myeloid leukaemia. *Leukemia*. 2022 May 1; 36(5):1227-1236. doi:10.1038/s41375-022-01522-3. Epub 2022 Mar 25. PMC9061294. Impact Factor: 11.53
35. Correa C, Gonzalez-Ramella O, Baldomero H, et al. Increasing access to hematopoietic cell transplantation in Latin America: Results of the 2018 LABMT activity survey and trends since 2012. *Bone Marrow Transplantation*. 2022 Jun 1; 57(6):881-888. doi:10.1038/s41409-022-01630-9. Epub 2022 Mar 28. Impact Factor: 6.50
36. Maakaron JE, Zhang M-J, Chen K, et al. Age is no barrier for adults undergoing HCT for AML in CR1: Contemporary CIBMTR analysis. *Bone Marrow Transplantation*. 2022 Jun 1; 57(6):911-917. doi:10.1038/s41409-022-01650-5. Epub 2022 Apr 2. PMC9232949. Impact Factor: 5.48
37. Brunstein CG, O'Donnell P, Logan B, et al. Impact of Center Experience with Donor Type on Outcomes: A Secondary Analysis BMT CTN 1101Open for Accrual June 2012 Open for Accrual June 2012 Transplantation and Cellular Therapy. doi:10.1016/j.jtct.2022.03.024. Epub 2022 Apr 4. Impact Factor: 5.60

38. Morishima Y, Morishima S, Stevenson P, et al. Race and survival in unrelated hematopoietic-cell transplantation. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.03.026. Epub 2022 Apr 8. Impact Factor: 5.60
39. Phelan R, Chen M, Bupp C, et al. Updated trends in hematopoietic cell transplantation in the United States with an additional focus on adolescent and young adult transplantation activity and outcomes. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.04.012. Epub 2022 Apr 18. Impact Factor: 5.60
40. Mei M, Pillai R, Kim S, et al. The mutational landscape in chronic myelomonocytic leukemia and its impact on allogeneic hematopoietic cell transplantation outcomes: a Center for Blood and Marrow Transplantation Research (CIBMTR) analysis. *Haematologica*. doi:10.3324/haematol.2021.280203. Epub 2022 Apr 21. Impact Factor: 9.94
41. Thanarajasingam G, Minasian LM, Bhatnagar V, et al. Reaching beyond maximum grade: progress and future directions for modernising the assessment and reporting of adverse events in haematological malignancies. *The Lancet Haematology*. 2022 May 1; 9(5):e374-e384. doi:10.1016/S2352-3026(22)00045-X. Epub 2022 Apr 29. Impact Factor: 18.95
42. Kansagra A, Dispenzieri A, Fraser R, et al. Outcomes after autologous hematopoietic cell transplantation in POEMS syndrome and comparison with multiple myeloma. *Blood Advances*. doi:10.1182/bloodadvances.2022007218. Epub 2022 May 4. Impact Factor: 5.48
43. Phelan R, Im A, Hunter RL, et al. Male-specific late effects in adult hematopoietic cell transplantation recipients: A systematic review from the Late Effects and Quality of Life Working Committee of the Center for International Blood and Marrow Transplant Research and Transplant Complications Working Party of the European Society of Blood and Marrow Transplantation. *Bone Marrow Transplantation*. doi:10.1016/j.jtct.2021.10.013. Epub 2022 May 6. Impact Factor: 5.48
44. Hamilton BK, Cutler C, Divine C, et al. Are We Making PROGRESS in Preventing Graft-versus-Host Disease and Improving Clinical Outcomes? Impact of BMT CTN 1301 Study Results on Clinical Practice. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.05.002. Epub 2022 May 9. Impact Factor: 5.60
45. D'Souza A, Brazauskas R, Stadtmauer E, et al. Trajectories of quality of life recovery and symptom burden after autologous hematopoietic cell transplantation in multiple myeloma. *American Journal of Hematology*. doi:10.1002/ajh.26596. Epub 2022 May 14. Impact Factor: 10.04
46. Broglie L, Friend BD, Chhabra S, et al. Differential use of the hematopoietic cell transplantation-comorbidity index among adult and pediatric transplant physicians. *Leukemia & Lymphoma*. doi:10.1080/10428194.2022.2076848. Epub 2022 May 18. Impact Factor: 3.28

47. Pearce EE, Alsaggaf R, Katta S, et al. Telomere length and epigenetic clocks as markers of cellular aging: A comparative study. *GeroScience*. 2022 Jun 1; 44(3):1861-1869. doi:10.1007/s11357-022-00586-4. Epub 2022 May 18. PMC9213578. Impact Factor: 7.71
48. Holstein SA, Bhutani M, Hillengass J. Proceedings from the BMT CTN Myeloma Intergroup Workshop on Immune and Cellular Therapy in Multiple Myeloma Transplantation and Cellular Therapy. doi:10.1016/j.jtct.2022.05.019. Epub 2022 May 20. Impact Factor: 5.60
49. Munshi PN, Chen Y, Ahn KW, et al. Outcomes of Autologous Hematopoietic Cell Transplantation in Older Patients with Diffuse Large B Cell Lymphoma. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.05.029. Epub 2022 May 21. Impact Factor: 5.60
50. Jacobson CA, Locke FL, Ma L, et al. Real-world evidence of axicabtagene ciloleucel for the treatment of large B cell lymphoma in the United States. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.05.026. Epub 2022 May 21. Impact Factor: 5.60
51. Arrieta-Bolaños E, Crivello P, He M, et al. A core group of structurally similar HLA-DPB1 alleles drives permissiveness after hematopoietic cell transplantation. *Blood*. doi:10.1182/blood.2022015708. Epub 2022 May 24. Impact Factor: 22.11
52. Ambinder AJ, Jain T, Tsai HL, et al. HLA-matching with PTCy: A reanalysis of a CIBMTR dataset with propensity score matching and donor age. *Blood Advances*. doi:10.1182/bloodadvances.2022007741. Epub 2022 May 25. Impact Factor: 5.48
53. Farhadfar N, Ahn KW, Bo-Subait S, et al. The impact of pre-apheresis Health Related Quality of Life on peripheral blood progenitor cell yield and donor's health and outcome: Secondary analysis of Patient-Reported Outcome Data from the RDSafe and BMT CTN 0201 Clinical Trials *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.05.042. Epub 2022 Jun 7. Impact Factor: 5.60
54. Osoegawa K, Marsh SGE, Holdsworth R, et al. A new strategy for systematically classifying HLA alleles into serological specificities. *HLA*. 2022 Sep 1; 100(3):193-231. doi:10.1111/tan.14662. Epub 2022 Jun 22. Impact Factor: 8.76
55. McReynolds LJ, Rafati M, Wang Y, et al. Genetic testing in severe aplastic anemia is required for optimal hematopoietic cell transplant outcomes. *Blood*. 2022 Aug 25; 140(8):909-921. doi:10.1182/blood.2022016508. Epub 2022 Jul 1. Impact Factor: 22.11
56. Krishnamurti L, Arnold SD, Haight A, et al. Sick Cell Transplantation Evaluation of Long-term and Late Effects Registry (STELLAR) to compare long-term outcomes after hematopoietic cell transplantation to those in siblings without sickle cell disease and in nontransplanted individuals with sickle cell disease: Design and feasibility study. *JMIR Research Protocols*. 11(7):e36780. doi:10.2196/36780. Epub 2022 Jul 6. PMC9301564. Impact Factor: 7.08

57. Bashir Q, Nishihori T, Pasquini MC, et al. Multicenter phase II, double-blind placebo-controlled trial of maintenance ixazomib after allogeneic transplantation for high-risk multiple myeloma: Results of the BMT CTN 1302 Trial Transplantation and Cellular Therapy. doi:10.1016/j.jtct.2022.07.007. Epub 2022 Jul 12. Impact Factor: 5.60
58. Saliba RM, Majid AA, Pidala J, et al. Characteristics of graft-versus-host disease (GvHD) after post-transplant cyclophosphamide versus conventional GvHD prophylaxis. Transplantation and Cellular Therapy. doi:10.1016/j.jtct.2022.07.013. Epub 2022 Jul 17. Impact Factor: 5.60
59. Lee CJ, Wang T, Chen K, et al. Association of chronic graft-versus-host disease with late effects following allogeneic hematopoietic cell transplantation for children with hematologic malignancy. Transplantation and Cellular Therapy. doi:10.1016/j.jtct.2022.07.014. Epub 2022 Jul 18. Impact Factor: 5.60
60. Rotz SJ, Yi JC, Hamilton BK, et al. Health Related Quality of Life in Young Adults Survivors of Hematopoietic Cell Transplantation Transplantation and Cellular Therapy. doi:10.1016/j.jtct.2022.07.018. Epub 2022 Jul 22. Impact Factor: 5.60
61. DeZern AE, Eapen M, Wu J, et al. Haploidentical bone marrow transplantation in patients with relapsed or refractory severe aplastic anaemia in the USA (BMT CTN 1502): A multicentre, single-arm, phase 2 trial. *The Lancet Haematology*. 2022 Sep 1; 9(9):e660-e669. doi:10.1016/S2352-3026(22)00206-X. Epub 2022 Jul 27. PMC9444987. Impact Factor: 18.95
62. Worel N, Aljurf M, Anthias C, et al. Suitability of haematopoietic cell donors: Updated consensus recommendations from the WBMT standing committee on donor issues. *The Lancet Haematology*. 2022 Aug 1; 9(8):e605-e614. doi:10.1016/S2352-3026(22)00184-3. Epub 2022 Jul 29. Impact Factor: 30.15
63. Feurstein SK, Trottier AM, Estrada-Merly N, et al. Germline predisposition variants occur in myelodysplastic syndrome patients of all ages. *Blood*. doi:10.1182/blood.2022015790. Epub 2022 Aug 19. Impact Factor: 25.48
64. Brown DW, Zhou W, Wang Y, et al. Germline-somatic JAK2 interactions are associated with clonal expansion in myelofibrosis. *Nature Communications*. 13(1):5284. doi:10.1038/s41467-022-32986-7. Epub 2022 Sep 8. PMC9458655. Impact Factor: 17.69
65. Furqan F, Ahn KW, Chen Y, et al. Allogeneic haematopoietic cell transplant in patients with relapsed/refractory anaplastic large cell lymphoma. *British Journal of Haematology*. doi:10.1111/bjh.18467. Epub 2022 Sep 19. Impact Factor: 8.61

66. Mau LW, Preussler JM, Meyer CL, et al. Trends in allogeneic hematopoietic cell transplantation utilization and estimated unmet need among Medicare beneficiaries with acute myeloid leukemia. *Transplantation and Cellular Therapy*. 2022 Dec 1; 28(12):852-858. doi:10.1016/j.jtct.2022.09.015.. Epub 2022 Sep 25. Impact Factor: 5.60
67. Auletta JJ, Sandmaier BM, Jensen E, et al. The ASTCT-NMDP ACCESS initiative: A collaboration to address and sustain equal outcomes for all across the hematopoietic cell transplantation and cellular therapy ecosystem. *Transplantation and Cellular Therapy*. 2022 Dec 1; 28(12):802-809. doi:10.1016/j.jtct.2022.09.020. Epub 2022 Sep 30. Impact Factor: 5.60
68. Cusatis R, Balza J, Uttke Z, et al. Patient-reported cognitive function among hematopoietic stem cell transplant and cellular therapy patients: A scoping review. *Quality of Life Research*. doi:10.1007/s11136-022-03258-0. Epub 2022 Oct 6. Impact Factor: 4.14
69. Olson TS, Frost BF, Duke JL, et al. Pathogenicity and impact of HLA class I alleles in aplastic anemia patients of different ethnicities. *Journal of Clinical Investigation Insight*. 2022 Nov 22; 7(22):e163040. doi:10.1172/jci.insight.163040. Epub 2022 Oct 11. PMC9746824. Impact Factor: 9.48
70. Boyiadzis M, Zhang MJ, Chen K, et al. Impact of pre-transplant induction and consolidation cycles on AML allogeneic transplant outcomes: A CIBMTR analysis in 3113 AML patients. *Leukemia*. doi:10.1038/s41375-022-01738-3. Epub 2022 Oct 12. Impact Factor: 12.88
71. Pagliuca S, Gurnari C, Hercus C, et al. Molecular landscape of immune pressure and escape in aplastic anemia. *Leukemia*. doi:10.1038/s41375-022-01723-w. Epub 2022 Oct 17. Impact Factor: 12.88
72. Cusatis R, Martens MJ, Nakamura R, Cutler CS, Saber W, Lee SJ, Logan BR, Shaw BE, Gregory A, D'Souza A, Hamilton BK, Horowitz MM, Flynn KE. Health-related quality of life in reduced intensity hematopoietic cell transplantation based on donor availability in patients aged 50-75 with advanced myelodysplastic syndrome: BMT CTN 1102 *American Journal of Hematology*. doi:10.1002/ajh.26768. Epub 2022 Oct 17. Impact Factor: 10.04
73. Vasu S, Holtan S, Shimamura A, et al. Bringing patient and caregivers voices to the clinical trial chorus: A report from the BMT CTN patient and caregiver advocacy task force. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.10.016. Epub 2022 Oct 22. Impact Factor: 5.60
74. Johnstone BH, Woods JR, Goebel WS, et al. Characterization and function of cryopreserved bone marrow from deceased organ donors: A potential viable alternative graft source. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.11.010. Epub 2022 Nov 16. Impact Factor: 5.60

75. Hong S, Zhao J, Wang S, et al. Health-related quality of life outcomes in older hematopoietic cell transplant (HCT) survivors. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.11.016.. Epub 2022 Nov 22. Impact Factor: 5.60
76. Schoettler M, Carreras E, Cho B, et al. Harmonizing definitions for diagnostic criteria and prognostic assessment of transplant associated thrombotic microangiopathy: A report on behalf of the European Society for Blood and Marrow Transplantation (EBMT), American Society for Transplantation and Cellular Therapy (ASTCT), Asia-Pacific Blood and Marrow Transplantation Group (APBMT) and the Center for International Blood and Marrow Transplant Research (CIBMTR). *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.11.015. Epub 2022 Nov 25. Impact Factor: 5.60
77. Friend B, Broglie L, Logan B, et al. Adapting the HCT-CI definitions for children, adolescents, and young adults with hematologic malignancies undergoing allogeneic hematopoietic cell transplantation. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.11.019. Epub 2022 Nov 25. Impact Factor: 5.60
78. Broglie L, Friend BD, Chhabra S, et al. Expanded HCT-CI definitions capture comorbidity better for younger patients of allogeneic HCT for non-malignant diseases. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.11.020. Epub 2022 Nov 25. Impact Factor: 5.60
79. Putta S, Young BA, Levine J, et al. Prognostic biomarkers for hepatic veno-occlusive disease/sinusoidal obstruction syndrome (VOD/SOS) in myeloablative allogeneic hematopoietic cell transplantation: Results from the BMT CTN 1202 study. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.11.024. Epub 2022 Nov 26. Impact Factor: 5.60
80. Olsen KS, Jadi O, Dexheimer S, et al. Shared graft-vs-leukemia minor histocompatibility antigens in DISCOVeRY-BMT. *Blood Advances*. doi:10.1182/bloodadvances.2022008863. Epub 2022 Dec 7. Impact Factor: 7.36
81. Spellman SR. Hematology 2022-What is complete HLA match in 2022? *Hematology / the Education Program of the American Society of Hematology*. 2022 Dec 9; 2022(1):83-89. doi:10.1182/hematology.2022000326. Epub 2022 Dec 9. PMC9821192. Impact Factor: 3.06
82. Mussetti A, Kanate AS, Wang T, et al. Haploidentical versus matched unrelated donor transplants using post-transplant cyclophosphamide for lymphomas. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.11.028. Epub 2022 Dec 25. Impact Factor: 5.60
83. Ramanathan M, Kim S, He N, et al. The incidence and impact of clostridioides difficile infection on transplant outcomes in acute leukemia and MDS after allogeneic hematopoietic cell transplant-a CIBMTR study. *Bone Marrow Transplantation*. doi:10.1038/s41409-022-01896-z. Epub 2022 Dec 25. Impact Factor: 5.48

84. Dhakal B, Zhang MJ, Burns LJ, et al. Efficacy, safety, and cost of mobilization strategies in multiple myeloma: A prospective observational study. *Haematologica*. doi:10.3324/haematol.2022.282269. Epub 2023 Jan 5. Impact Factor: 9.94
85. Turcotte LM, Whitton JA, Leisenring WM, et al. Chronic conditions, late mortality, and health status after childhood AML: A Childhood Cancer Survivor Study report. *Blood*. 2023 Jan 5; 141(1):90-101. doi:10.1182/blood.2022016487. Epub 2023 Jan 5. PMC9837436. Impact Factor: 22.11
86. Guru Murthy GS, Logan BR, Bo-Subait S, et al. Association of ABO mismatch with the outcomes of allogeneic hematopoietic cell transplantation for acute leukemia. *American Journal of Hematology*. doi:10.1002/ajh.26834. Epub 2023 Jan 6. Impact Factor: 10.04
87. Gragert L, Spellman S, Shaw B, et al. Unrelated stem cell donor HLA match likelihoods in the US Registry incorporating HLA-DPB1 permissive mismatching. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2022.12.027. Epub 2023 Jan 6. Impact Factor: 5.60
88. Eapen M, Brazauskas R, Williams DA, et al. Secondary neoplasms after hematopoietic cell transplant for sickle cell disease. *Journal of Clinical Oncology*. doi:10.1200/JCO.22.01203. Epub 2023 Jan 9. Impact Factor: 44.54
89. Garcia-Abadillo J, Morales L, Buerstmayr H, et al. Alternative scoring methods of fusarium head blight resistance for genomic assisted breeding. *Frontiers in Plant Science*. 13:1057914. doi:10.3389/fpls.2022.1057914. Epub 2023 Jan 11. PMC9876611. Impact Factor: 5.75
90. Crivello P, Arrieta-Bolaños E, He M, et al. Impact of the HLA immunopeptidome on survival of leukemia patients after unrelated donor transplantation. *Journal of Clinical Oncology*. doi:10.1200/JCO.22.01229. Epub 2023 Jan 20. Impact Factor: 44.54
91. Akdemir D, Somo M, Isidro-Sánchez J. An expectation-maximization algorithm for combining a sample of partially overlapping covariance matrices. *Axioms*. 12(2):161. doi:10.3390/axioms12020161. Epub 2023 Feb 4. Impact Factor: 1.84
92. Murthy GSG, Kim S, Estrada-Merly N, et al. Association between the choice of the conditioning regimen and outcomes of allogeneic hematopoietic cell transplantation for myelofibrosis. *Haematologica*. doi:10.3324/haematol.2022.281958. Epub 2023 Feb 9. Impact Factor: 11.04
93. Petersdorf EW, McKallor C, Malkki M, et al. Stevenson PA. Role of NKG2D ligands and receptor in haploidentical related donor hematopoietic cell transplantation. *Blood Advances*. doi:10.1182/bloodadvances.2022008922. Epub 2023 Feb 10. Impact Factor: 7.64

94. Auletta JJ, Kou J, Chen M, et al. Real-world data showing trends and outcomes by race and ethnicity in allogeneic hematopoietic cell transplantation: A report from the Center for International Blood and Marrow Transplant Research. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2023.03.007. Epub 2023 Mar 14. Impact Factor: 5.60
95. Sparapani RA, Logan BR, Maiers M, et al. Nonparametric failure time: Time-to-event machine learning with heteroskedastic bayesian additive regression trees and low information omnibus dirichlet process mixtures. *Biometrics*. doi:10.1111/biom.13857. Epub 2023 Mar 18. Impact Factor: 1.70
96. Boyiadzis M, Zhang MJ, Chen K, et al. Correction to: Impact of pre-transplant induction and consolidation cycles on AML allogeneic transplant outcomes: A CIBMTR analysis in 3113 AML patients. *Leukemia*. doi:10.1038/s41375-023-01814-2. Epub 2023 Mar 22. Impact Factor: 11.53
97. Knight TE, Ahn KW, Hebert KM, et al. Effect of autograft CD34+ dose on outcome in pediatric patients undergoing autologous hematopoietic stem cell transplant for central nervous system tumors. *Transplantation and Cellular Therapy*. doi:10.1016/j.jtct.2023.03.024. Epub 2023 Mar 27. Impact Factor: 5.60