Stanford



Sally Arai

Professor of Medicine (Blood and Marrow Transplantation and Cellular Therapy)

Medicine - Blood & Marrow Transplantation

CLINICAL OFFICE (PRIMARY)

- **Blood and Marrow Transplant Program**

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Bio

BIO

Dr. Arai has formal training in clinical research with a Masters in Epidemiology from Stanford University. She has a clinical practice seeing all diseases in hematopoietic cell transplantation, with a clinical research focus on the prevention and treatment of post-transplant complications.

CLINICAL FOCUS

- Cancer > Blood and Marrow Transplant
- Cancer > Hematology
- Blood and Marrow Transplantation
- Hematology

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Medicine - Blood & Marrow Transplantation
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- “A phase I/II study of post-transplant autologous CIK cells for high-risk hematologic malignancies”, Cancer Treatment Research Foundation (2005-2009)
- K23-“Reduce GVHD and Relapse using Ex-Vivo Expanded Allogeneic Cell Therapy”, NIH (2003-2008)

PROFESSIONAL EDUCATION

- Medical Education: Dartmouth Geisel School of Medicine (1991) NH
- Board Certification: Hematology, American Board of Internal Medicine (2019)
- Fellowship: Johns Hopkins Hospital (1999) MD
- Residency: Strong Memorial Hospital (1995) NY
- Fellowship: Mount Sinai Medical Center (1998) NY

- Internship: Strong Memorial Hospital (1993) NY
- MS, Stanford University , Epidemiology (2006)
- MD, Dartmouth Medical School

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research interest in utilizing post-transplant adoptive cellular immunotherapy to reduce GVHD and relapse in patients with high risk hematologic malignancies.

CLINICAL TRIALS

- Clinical Trial of Upfront Haploidentical or Unrelated Donor BMT to Restore Normal Hematopoiesis in Aplastic Anemia, Recruiting
- A Phase 2 Trial of Rituximab and Corticosteroid Therapy for Newly Diagnosed Chronic Graft Versus Host Disease, Not Recruiting
- A Phase 3 Study of Brentuximab Vedotin (SGN-35) in Patients at High Risk of Residual Hodgkin Lymphoma Following Stem Cell Transplant (The AETHERA Trial), Not Recruiting
- A Study of AbGn-168H in Patients With Steroid Refractory Acute Graft-vs-Host Disease After Donor Stem Cell Transplant, Not Recruiting
- A Study of Axatilimab at 3 Different Doses in Participants With Chronic Graft Versus Host Disease (cGVHD), Not Recruiting
- A Study to Evaluate the Safety and Efficacy of Axatilimab in Combination With Ruxolitinib in Participants With Newly Diagnosed Chronic Graft-Versus-Host Disease, Not Recruiting
- A Study to Evaluate the Safety, Tolerability, and Immunogenicity of V114 in Allogeneic Hematopoietic Stem Cell Transplant Recipients (V114-022/PNEU-STEM), Not Recruiting
- Acute Graft-versus-Host Disease Treatment (BMT CTN 0802), Not Recruiting
- Allogeneic Transplantation Using Total Lymphoid Irradiation (TLI) and Anti-Thymocyte Globulin (ATG) for Older Patients With Hematologic Malignancies, Not Recruiting
- An Open-Label Study of Defibrotide for the Prevention of Acute Graft-versus-Host-Disease (AGvHD), Not Recruiting
- Autologous Stem Cell Rescue for Primary Amyloidosis, Not Recruiting
- CD8+ Memory T-Cells as Consolidative Therapy After Donor Non-myeloablative Hematopoietic Cell Transplant in Treating Patients With Leukemia or Lymphoma, Not Recruiting
- Chronic GVHD Response Measures Validation, Not Recruiting
- Clinical Transplant-Related Long-term Outcomes of Alternative Donor Allogeneic Transplantation (BMT CTN 1702), Not Recruiting
- Defibrotide for Patients With Hepatic Veno-occlusive Disease: A Treatment IND Study, Not Recruiting
- Defibrotide for the Treatment of Severe Hepatic Veno-Occlusive Disease in Hematopoetic Stem Cell Transplant Patients, Not Recruiting
- Detection of Graft Versus Host Disease With [18F]F-AraG, Not Recruiting
- Donor Regulatory T Cells in Treating Patients With Visceral Acute Graft-versus-Host Disease After Stem Cell Transplant, Not Recruiting
- Efficacy and Safety of KD025 in Subjects With cGVHD After At Least 2 Prior Lines of Systemic Therapy, Not Recruiting
- Expanded Access Protocol (EAP) for Nonconforming (NC) Afami-cel, Not Recruiting
- Extended Treatment and Follow-up of Subjects Treated With Belumosudil in Study KD025-208 or Study KD025-213, Not Recruiting
- Fludarabine-based Conditioning for Severe Aplastic Anemia (BMT CTN 0301), Not Recruiting
- Gemcitabine and Hodgkin's Disease Chemotherapy Followed by Peripheral Blood Stem Cell Rescue for Hodgkin's Disease, Not Recruiting
- High Dose Chemotherapy Followed By PBSC Rescue for HD, Not Recruiting
- High Dose Sequential Therapy and Autologous Stem Cell Rescue for Multiple Myeloma, Not Recruiting

- High-Dose Sequential Therapy and Single Autologous Transplantation for Multiple Myeloma, Not Recruiting
- HLA-Mismatched Unrelated Donor Hematopoietic Cell Transplantation With Post-Transplantation Cyclophosphamide, Not Recruiting
- HLA-Mismatched Unrelated Donor Peripheral Blood Stem Cell Transplantation With Reduced Dose Post Transplantation Cyclophosphamide GvHD Prophylaxis, Not Recruiting
- Imatinib and Rituximab in Treating Cutaneous Sclerosis in Patients With Chronic Graft-Versus-Host Disease, Not Recruiting
- Immune Mediated Disorders After Allogeneic Hematopoietic Cell Transplantation, Not Recruiting
- MGTA-145 + Plerixafor in the Mobilization of HSCs for Allogeneic Transplant in Hematologic Malignancies, Not Recruiting
- Novel Approaches for Graft-versus-Host Disease Prevention Compared to Contemporary Controls (BMT CTN 1203), Not Recruiting
- Obinutuzumab in cGVHD After Allogeneic Peripheral Blood Stem Cell Transplantation, Not Recruiting
- Optimizing Haploidentical Aplastic Anemia Transplantation (BMT CTN 1502), Not Recruiting
- Phase 2 Trial of Prophylactic Rituximab Therapy for Prevention of CGVHD, Not Recruiting
- Post-transplant Autologous Cytokine-induced Killer (CIK) Cells for Treatment of High Risk Hematologic Malignancies, Not Recruiting
- Precision-T: A Randomized Study of Orca-T in Recipients Undergoing Allogeneic Transplantation for Hematologic Malignancies, Not Recruiting
- Precision-T: A Study of Orca-T in Recipients Undergoing Allogeneic Transplantation for Hematologic Malignancies, Not Recruiting
- Proof-of-concept Trial of Apraglutide in GVHD, Not Recruiting
- Safety and Efficacy of Axicabtagene Ciloleucel in Combination With Rituximab in Participants With Refractory Large B-Cell Lymphoma, Not Recruiting
- Study of the Bruton's Tyrosine Kinase Inhibitor in Subjects With Chronic Graft Versus Host Disease, Not Recruiting
- TLI & ATG for Non-Myeloablative Allogeneic Transplantation for MDS and MPD, Not Recruiting
- Transplantation for Patients With Chronic Lymphocytic Leukemia, Not Recruiting
- Treatment of GVHD in Hematopoietic Stem Cell Transplant (HSCT) Recipients Using AAT Plus Corticosteroids (CS) Compared With Corticosteroids Alone (BMT CTN 1705), Not Recruiting
- Bone Marrow Grafting for Leukemia and Lymphoma, Not Specified

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- **The Impact of Anti-CD38 Monoclonal Antibody Therapy on Stem-Cell Mobilization Yields in Patients with Newly Diagnosed Multiple Myeloma (NDMM) Referred from Community and Academic Oncology Practices: Single Center, Real World Data 2021-2024.** *Transplantation and cellular therapy*

  Uzun, D., Paul, J. M., Jensen, A., Tamaresis, J., Domingo, W., Arai, S., Ventura, F. A., Rocha, J., Bennett, L., Jones, A., Bharadwaj, S., Johnston, L., Lowsky, et al

  2025

- **Bronchiectasis in bronchiolitis obliterans syndrome after hematopoietic cell transplantation.** *Transplantation and cellular therapy*

  Epstein, D. J., Rodriguez-Ormaza, N., Sharifi, H., Lai, Y. K., Guo, H. H., Borges, C. H., Omar, S. H., Sahota, A., Dhillon, E. S., Musa, Z. M., Moss, C. T., Chatterjee, P., Hofmann, et al

  2025

- **Post-Transplant Cyclophosphamide-Based Graft-Versus-Host Disease Prophylaxis After Mismatched Unrelated Donor Peripheral Blood Stem Cell Transplantation.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*

  Al Malki, M. M., Bo-Subait, S., Logan, B., Olson, J., Kou, J., Smith, S., Leckrone, E., Wu, J., Stefanski, H. E., Auletta, J. J., Spellman, S. R., Malmberg, C., Askar, et al

  2025: JCO2500856

- **The Impact of Melphalan Conditioning and CD34+ Cell Dose and Schedule on Post-Transplant Outcomes in AL Amyloidosis.** *American journal of hematology*
  Muchtar, E., Sanchorawala, V., Hassan, H., Hegenbart, U., Schönland, S., Lee, H. C., Qazilbash, M., Kin, A., Zonder, J., Jacob, E., Buadi, F., Dispenzieri, A., Dingli, et al
  2025

- **KIDNEY FUNCTION IN ALLOGENIC HEMATOPOIETIC CELL TRANSPLANT RECIPIENTS TREATED WITH ORCA-T GVHD PROPHYLAXIS COMPARED TO POST TRANSPLANT CYCLOPHOSPHAMIDE OR METHOTREXATE**
  Ziolkowski, S., Villar-Prados, A., Parvathinathan, G., Okabuonye, N., Johnston, L., Arai, S., Stedman, M., Anand, S., Meyer, E.
  W B SAUNDERS CO-ELSEVIER INC.2025

- **A model for predicting day-100 stem cell transplant-related mortality in AL amyloidosis.** *Bone marrow transplantation*
  Muchtar, E., Dispenzieri, A., Sanchorawala, V., Hassan, H., Mwangi, R., Maurer, M., Buadi, F., Lee, H. C., Qazilbash, M., Kin, A., Zonder, J., Arai, S., Chin, et al
  2025

- **Deciphering response dynamics and treatment resistance from circulating tumor DNA after CAR T-cells in multiple myeloma.** *Nature communications*
  Hosoya, H., Carleton, M., Tanaka, K., Sworder, B., Syal, S., Sahaf, B., Maltos, A. M., Silva, O., Stehr, H., Hovanky, V., Duran, G., Zhang, T., Liedtke, et al
  2025; 16 (1): 1824

- **Efficacy of Hedgehog Pathway Inhibitors as Adjuvant in Treating Steroid-Refractory Sclerodermatous Chronic Graft-Versus-Host Disease.** *Journal of the American Academy of Dermatology*
  Mendez-Hernandez, A., Gupta, R., Arai, S., Lowsky, R., Kwong, B., Weng, W. K.
  2025

- **Donor Regulatory T-Cell Therapy to Prevent Graft-Versus-Host Disease.** *Blood*
  Meyer, E., Pavlova, A., Villar-Prados, A., Bader, C. S., Xie, B., Muffly, L., Kim, P., Sutherland, K. C., Bharadwaj, S., Dahiya, S., Frank, M. J., Arai, S., Johnston, et al
  2025

- **Belumosudil combination therapy for chronic graft-versus-host-disease in real-world clinical practice.** *Bone marrow transplantation*
  Chin, M. M., Tamaresis, J. S., Johnston, L. J., Lowsky, R., Meyer, E., Muffly, L., Shiraz, P., Frank, M. J., Rezvani, A. R., Bharadwaj, S., Weng, W. K., Shizuru, J. A., Arai, et al
  2024

- **Single Institution Analysis of Lymphoma Treatment Related Post-CAR Myeloid Neoplasms**
  Hamilton, M., Phillips, N., Lee, D., Ehlinger, Z., Kramer, A., Srinagesh, H., Good, Z., Kang, X., Olsen, M., Liu, C., Tian, F., Sworder, B. J., Hosoya, et al
  ELSEVIER.2024: 96-97

- **Spatial Characterization of Molecular Pathways Suggests the Dysregulation of LGR5 Expressing Fibroblasts in Patients with sclerodermatous Chronic Graft-Vs-Host Disease**
  Afrin, M., Nasr, S., De Souza, C., Howitt, B., Mueller, A., Arai, S., Shizuru, J., Wernig, G.
  ELSEVIER.2024

- **A Standard Operating Protocol for Pre-Transplant Low Dose Splenic Radiotherapy for Patients with Myelofibrosis**
  Baniel, C., Park, N., Klebaner, D., Shomali, W., Gotlib, J., Arai, S., Hiniker, S., Hoppe, R. T., Johnston, L., Binkley, M. S.
  ELSEVIER.2024: 2116-2117

- **CD22-Directed CAR T-Cell Therapy Achieves Complete Remission in CD19-Directed CAR T-Cell Refractory Follicular and Mantle Cell Lymphoma**
  Kramer, A., Srinagesh, H., Su, Y., Hamilton, M. P., Levine, K., Migliore, E., Denoble, K., Brown, A. K., Cunanan, K., Agarwal, N., Lohman, C., Mavroukakis, S., Bharadwaj, et al
  ELSEVIER.2024: 2064-2066

- **Trial in Progress: Cureaa- a Clinical Trial of Upfront Haploidentical or Unrelated Donor BMT to Restore Normal Hematopoiesis in Aplastic Anemia, Blood and Marrow Transplant Clinical Trials Network (BMT CTN) #2207**
  Sharma, A., Mangaonkar, A. A., Kassim, A. A., Fritz, A. R., Bellach, A., Saldana, B., Ball, B. J., Malmberg, C., Babushok, D., Henderson, L., Pandey, M., Martens, M. J., Difronzo, et al

ELSEVIER.2024: 21341-21342

- **Safe and Effective Combination of Donor-Derived, Allogeneic CD19/CD22-CAR T Cells with Myeloablative Graft-Engineered Allo-HCT for High-Risk B-ALL**

  Muffly, L., Ananth, S., Danley, L., Wagner, C., Kordek, D., Denoble, K., Fraser, A., Egeler, E., Molina, A., Ehlinger, Z., Desai, M., Daghagh, H., Tunuguntla, et al

  ELSEVIER.2024: 680

- **Safety and Efficacy of Chimeric Antigen Receptor T-Cell Therapy in Octogenarian Patients (Aged > 80) with Relapsed or Refractory (R/R) Large B-Cell Lymphoma (LBCL)**

  Lee, D., Bharadwaj, S., Rana, M. S., Jensen, A., Wang, W., Ghalehsari, N., Sahaf, B., Mallampet, J., Elkordy, S., Latchford, T., Arai, S., Johnston, L., Hosoya, et al

  ELSEVIER.2024: 386-387

- **Model for Predicting Day-100 Stem Cell Transplant-Related Mortality in AL Amyloidosis**

  Muchtar, E., Dispenzieri, A., Sanchorawala, V., Hassan, H., Mwangi, R., Maurer, M. J., Buadi, F., Lee, H. C., Qazilbash, M. H., Kin, A., Zonder, J. A., Arai, S., Chin, et al

  ELSEVIER.2024: 4681-4682

- **Cytokines associated with organ manifestations in chronic graft-versus-host disease**

  Lee, S. J., Ma, N., Randolph, T., Kitko, C. L., Cutler, C. S., El Jurdi, N., Chen, G., Hamilton, B. K., Pidala, J. A., Carpenter, P. A., Arai, S., Onstad, L., Paczesny, et al

  ELSEVIER.2024: 4902-4903

- **Outcomes of Autologous Stem Cell Transplant in Older Adults with Relapsed/Refractory Classic Hodgkin Lymphoma**

  Desai, S. H., Spinner, M. A., Sykorova, A., Bachanova, V., Evens, A. M., Goyal, G., Kahl, B. S., Dorritie, K., Azzi, J., Kenkre, V. P., Chang, C., Michalka, J., Ansell, et al

  ELSEVIER.2024: 570-572

- **Anti-BCMA CAR T-Cell Expansion and Its Association with Response and Toxicity in Multiple Myeloma**

  Hosoya, H., Jensen, A., Hovanky, V., Homsy, S., Cancilla, J. E., Patil, S., Kennedy, V. E., Bharadwaj, S., Smith, M., Shiraz, P., Frank, M. J., Dahiya, S., Arai, et al

  ELSEVIER.2024: 2006-2007

- **CD22-Directed CAR T-Cell Therapy for Large B-Cell Lymphomas Progressing after CD19-Directed CAR T-Cell Therapy: Continued Durable Remissions at 3-Year Follow-up**

  Kramer, A., Baird, J. H., Srinagesh, H., Egeler, E., Levine, K., Brown, A. K., Mavroukakis, S., Cunanan, K., Su, Y., Agarwal, N., Hamilton, M. P., Bharadwaj, S., Arai, et al

  ELSEVIER.2024: 70-71

- **Phase II study of novel CXCR2 agonist and Plerixafor for rapid stem cell mobilization in patients with multiple myeloma.** *Blood cancer journal*

  Sidana, S., Bankova, A. K., Hosoya, H., Kumar, S. K., Holmes, T. H., Tamaresis, J., Le, A., Muffly, L. S., Maysel-Auslender, S., Johnston, L., Arai, S., Lowsky, R., Meyer, et al

  2024; 14 (1): 173

- **Long-term survival after unrelated donor marrow transplantation for aplastic anaemia after optimized conditioning regimen: a retrospective multicentre cohort study** *ECLINICALMEDICINE*

  Eapen, M., Antin, J. H., Tolar, J., Arai, S., Horwitz, M. E., Kou, J., Leifer, E., McCarty, J. M., Nakamura, R., Pulsipher, M. A., Rowley, S. D., Horowitz, M. M., Deeg, et al

  2024; 76

- **PHASE 1 TRIAL RESULTS FOR PATIENTS WITH ADVANCED HEMATOLOGIC MALIGNANCIES TREATED WITH ORCA-T CELL THERAPY WITH REDUCED INTENSITY CONDITIONING AND SINGLE AGENT TACROLIMUS**

  Villar-Prados, A., Sutherland, K., Negrin, R., Arai, S., Frank, M., Johnston, L., Lowsky, R., Miklos, D., Muffly, L., Dahiya, S., Rezvani, A., Sidana, S., Shiraz, et al

  SPRINGERNATURE.2024: 287-288

- **Allogeneic Hematopoietic Cell Transplantation for the Treatment of Severe Aplastic Anemia: Evidence-Based Guidelines from the American Society for Transplantation and Cellular Therapy.** *Transplantation and cellular therapy*

  Iftikhar, R., DeFilipp, Z., DeZern, A. E., Pulsipher, M. A., Bejanyan, N., Burroughs, L. M., Kharfan-Dabaja, M. A., Arai, S., Kassim, A., Nakamura, R., Saldaña, B. J., Aljurf, M., Hamadani, et al

2024

- **Axatilimab in Recurrent or Refractory Chronic Graft-versus-Host Disease.** *The New England journal of medicine*
  Wolff, D., Cutler, C., Lee, S. J., Pusic, I., Bittencourt, H., White, J., Hamadani, M., Arai, S., Salhotra, A., Perez-Simon, J. A., Alousi, A., Choe, H., Kwon, et al
  2024; 391 (11): 1002-1014

- **Access to Allogeneic Cell Transplantation Based on Donor Search Prognosis: An Interventional Trial.** *medRxiv : the preprint server for health sciences*
  Dehn, J. G., Logan, B., Shaw, B. E., Devine, S., Ciurea, S. O., Horowitz, M., He, N., Pusic, I., Srour, S. A., Arai, S., Juckett, M., Uberti, J., Hill, et al
  2024

- **CD22-directed CAR T-cell therapy for large B-cell lymphomas progressing after CD19-directed CAR T-cell therapy: a dose-finding phase 1 study.** *Lancet (London, England)*
  Frank, M. J., Baird, J. H., Kramer, A. M., Srinagesh, H. K., Patel, S., Brown, A. K., Oak, J. S., Younes, S. F., Natkunam, Y., Hamilton, M. P., Su, Y. J., Agarwal, N., Chinnasamy, et al
  2024

- **A Phase 1 Clinical Trial of NKTR-255 with CD19-22 CAR-T Cell Therapy for Refractory B-cell Acute Lymphoblastic Leukemia.** *Blood*
  Srinagesh, H. K., Jackson, C., Shiraz, P., Jeyakumar, N., Hamilton, M. P., Egeler, E., Mavroukakis, S., Kuo, A., Cancilla, J., Sahaf, B., Agarwal, N., Kanegai, A. M., Kramer, et al
  2024

- **Bendamustine is a safe and effective lymphodepletion agent for axicabtagene ciloleucel in patients with refractory or relapsed large B-cell lymphoma.** *Journal for immunotherapy of cancer*
  Bharadwaj, S., Lau, E., Hamilton, M. P., Goyal, A., Srinagesh, H., Jensen, A., Lee, D., Mallampet, J., Elkordy, S., Syal, S., Patil, S., Latchford, T., Sahaf, et al
  2024; 12 (7)

- **Comparison of treatment response measures in cutaneous sclerosis after allogeneic hematopoietic cell transplantation.** *Blood advances*
  Pidala, J. A., Onstad, L., Baumrin, E., Carpenter, P. A., Cutler, C. S., Arai, S., Kitko, C. L., Chen, G. L., Lee, S. J.
  2024

- **A predictive model for day-100 transplant-related mortality in AL amyloidosis**
  Muchtar, E., Dispenzieri, A., Sanchorawala, V., Hassan, H., Mwangi, R., Maurer, M., Lee, H., Qazilbash, M., Kin, A., Zonder, J., Buadi, F. K., Arai, S., Chin, et al
  TAYLOR & FRANCIS LTD.2024: S186-S187

- **Management of post-autologous transplant relapse in patients with T-cell lymphomas.** *American journal of hematology*
  Veilleux, O., Socola, F., Arai, S., Frank, M. J., Johnston, L., Lowsky, R., Shizuru, J., Meyer, E., Muffly, L., Rezvani, A. R., Shiraz, P., Sidana, S., Dahiya, et al
  2024

- **CAR19 monitoring by peripheral blood immunophenotyping reveals histology-specific expansion and toxicity.** *Blood advances*
  Hamilton, M. P., Craig, E., Gentille Sanchez, C., Mina, A., Tamaresis, J., Kirmani, N., Ehlinger, Z., Syal, S., Good, Z., Sworder, B., Schroers-Martin, J., Lu, Y., Muffly, et al
  2024

- **CD22 CAR T cells demonstrate high response rates and safety in pediatric and adult B-ALL: Phase 1b results.** *Leukemia*
  Schultz, L. M., Jeyakumar, N., Kramer, A. M., Sahaf, B., Srinagesh, H., Shiraz, P., Agarwal, N., Hamilton, M., Erickson, C., Jacobs, A., Moon, J., Baggott, C., Arai, et al
  2024

- **Long-Term Clinical Outcomes and B Cell Immune Reconstitution following Allo-HCT with Prophylactic, Post-Transplant Rituximab.** *Transplantation and cellular therapy*
  Kennedy, V. E., Sahaf, B., Wu, F., Ehlinger, Z. J., Arai, S., Miklos, D. B.
  2024

- **Single Center Randomized Trial of T-reg graft alone versus T-reg graft Plus Tacrolimus for the Prevention of Acute GVHD.** *Blood advances*
  Bader, C. S., Pavlova, A., Lowsky, R., Muffly, L., Shiraz, P., Arai, S., Johnston, L. J., Rezvani, A. R., Weng, W. K., Miklos, D. B., Frank, M. J., Tamaresis, J. S., Agrawal, et al
  2023

- **CAR19 Therapy Drives Expansion of Clonal Hematopoiesis and Associated Cytopenias**
  Hamilton, M. P., Sworder, B. J., Alig, S. K., Good, Z., Boegeholz, J., Schroers-Martin, J., Tamaresis, J., Esfahani, M., Lu, Y., Olsen, M., Liu, C., Ehlinger, Z., Desai, et al
  AMER SOC HEMATOLOGY.2023

- **The Impact of Melphalan Conditioning Schedule on Post-Transplant Outcomes in AL Amyloidosis: A Multicenter Study with 1718 Patients**
  Muchtar, E., Sanchorawala, V., Hassan, H., Hegenbart, U., Schonland, S., Lee, H. C., Qazilbash, M. H., Kin, A., Houde, C. A., Buadi, F., Dispenzieri, A., Jacob, E. K., Arai, et al
  AMER SOC HEMATOLOGY.2023

- **Safety and Efficacy of Axatilimab at 3 Different Doses in Patients with Chronic Graft-Versus-Host Disease (AGAVE-201)**
  Wolff, D., Cutler, C., Lee, S. J., Pusic, I., Bittencourt, H., White, J., Hamadani, M., Arai, S., Salhotra, A., Perez-Simon, J. A., Alousi, A., Choe, H., Kwon, et al
  AMER SOC HEMATOLOGY.2023

- **Long-Term Outcomes after Unrelated Marrow Transplantation for Aplastic Anemia with Optimized Cyclophosphamide Dose (BMT CTN 0301)**
  Eapen, M., Antin, J., Tolar, J., Arai, S., Horwitz, M., Kou, J., Leifere, E., McCarty, J. M., Nakamura, R., Pulsipher, M. A., Horowitz, M. M., Deeg, H.
  AMER SOC HEMATOLOGY.2023

- **Phase 1 Trial Results for Patients with Advanced Hematologic Malignancies Undergoing Reduced Intensity Allogeneic HCT with Orca-T Donor Cell Therapy Product and Single Agent Tacrolimus**
  Villar-Prados, A., Meyer, E. H., Sutherland, K., Negrin, R. S., Arai, S., Frank, M. J., Johnston, L., Lowsky, R., Miklos, D. B., Muffly, L. S., Dahiya, S., Rezvani, A. R., Sidana, et al
  AMER SOC HEMATOLOGY.2023

- **Targeting of CD25+Activated T Cells in Gvhd-Associated Marrow Suppression and Cytopenias**
  John, T. D., Valine, L., Barbarito, G., Kwon, H., Arai, S., Martin-Kool, B., Kumari, R., Shizuru, J., Oak, J. S., Parkman, R., Bertaina, A., Weinberg, K. I.
  AMER SOC HEMATOLOGY.2023

- **A NOVEL DONOR SEARCH AND SELECTION ALGORITHM FACILITATES A COMPARABLE INCIDENCE OF TRANSPLANT FOR PATIENTS REGARDLESS OF BASELINE SEARCH PROGNOSIS: REPORT FROM BMTCTN 1702 TRIAL**
  Dehn, J., Logan, B., He, N., Shaw, B. E., Devine, S., Vogel, J., Erickson, C., Ciurea, S., Lee, S. J., Westervelt, P., Srour, S., Arai, S., Juckett, et al
  SPRINGERNATURE.2023: 150-152

- **Bendamustine vs. fludarabine/cyclophosphamide lymphodepletion prior to BCMA CAR-T cell therapy in multiple myeloma.** *Blood cancer journal*
  Sidana, S., Hosoya, H., Jensen, A., Liu, L., Goyal, A., Hovanky, V., Sahaf, B., Bharadwaj, S., Latchford, T., Arai, S., Leahy, S., Mei, M., Budde, et al
  2023; 13 (1): 158

- **Overall survival of cHL patients who progress after autologous stem cell transplant: results in novel agent era.** *Blood advances*
  Desai, S. H., Spinner, M. A., Evens, A. M., Sýkorová, A., Bachanova, V., Goyal, G., Kahl, B. S., Dorritie, K. A., Azzi, J., Kenkre, V. P., Chang, C., Michalka, J., Ansell, et al
  2023

- **Patient-reported treatment response in chronic graft-versus-host disease.** *Haematologica*
  Im, A., Pusic, I., Onstad, L., Kitko, C. L., Hamilton, B. K., Alousi, A. M., Flowers, M. E., Sarantopoulos, S., Carpenter, P., White, J., Arai, S., El Jurdi, N., Chen, et al
  2023

- **Multi-Omics Profiling of Skin Biopsies of Patients with Sclerodermatous Graft-vs-Host Disease Suggests Therapeutic Potential of Targeting Don't Eat Me Signals**
  Wadsworth, P., De Souza, C., Cui, L., Yiu, C., Poyser, J., Rieger, K., Brown, R., Arai, S., Shizuru, J., Muller, A., Wernig, G.
  ELSEVIER SCIENCE INC.2023: S1252-S1253

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- **Outcomes for Acute Myeloid Leukemia Relapse after Allogeneic Hematopoietic Cell Transplantation Remain Poor in the Modern Era**

  Philip, S., Lowsky, R., Johnston, L. J., Arai, S., Meyer, E. H., Negrin, R. S., Rezvani, A. R., Shiraz, P., Shizuru, J. A., Sidana, S., Weng, W., Bharadwaj, S., Frank, et al

  AMER SOC HEMATOLOGY.2022: 4825-4827

- **Idecabtagene Vicleucel Chimeric Antigen Receptor T-Cell Therapy for Relapsed/Refractory Multiple Myeloma with Renal Insufficiency: Real World Experience**

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- **The Prevalence and Effects of Frailty in Chronic Graft-Versus-Host Disease**

  Rashid, N., Arora, M., Carpenter, P. A., Alousi, A. M., Hamilton, B. K., Pidala, J., Onstad, L. E., Cutler, C., Flowers, M. E. D., Arai, S., Bhatia, S., Lee, S. J.

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- **Disease Characterization and Response Prediction in Myeloma Patients Undergoing Conventional and Cellular Therapies from Circulating Tumor DNA**

  Hosoya, H., Carleton, M., Tanaka, K. L., Sworder, B., Hovanky, V., Duran, G. E., Zhang, T. Y., Khodadoust, M. S., Miklos, D. B., Arai, S., Iberri, D., Liedtke, M., Sidana, et al

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- **Real-world Experience of Cryopreserved Allogeneic Hematopoietic Grafts in the COVID-19 Pandemic: A Single Center Report.** *Transplantation and cellular therapy*
  Bankova, A. K., Caveney, J., Yao, B., Ramos, T. L., Bogeholz, J., Heydari, K., Diaz, N., Jackson, M. L., Lowsky, R., Brown, J. W., Johnston, L., Rezvani, A. R., Frank, et al
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- **Post-Hematopoietic Stem Cell Transplantation Immune-Mediated Anemia: A Literature Review and Novel Therapeutics.** *Blood advances*
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- **CD22-CAR T-Cell Therapy Mediates High Durable Remission Rates in Adults with Large B-Cell Lymphoma Who Have Relapsed after CD19-CAR T-Cell Therapy**
  Frank, M. J., Baird, J. H., Patel, S., Craig, J., Spiegel, J. Y., Ehlinger, Z., Chinnasamy, H., Younes, S. F., Oak, J. S., Natkunam, Y., Reynolds, W. D., Iglesias, M., Crawford, et al
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  Cui, L., De Souza, C., Lerbs, T., Poyser, J., Kooshesh, M., Saleem, A., Rieger, K., Brown, B., Kwong, B., Fernandez-Pol, S., Arai, S., Shizuru, J. A., Mueller, et al
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- **Novel Salvage Regimens Lead to Better Response and Survival in Relapsed Refractory Classic Hodgkin Lymphoma after Autologous Stem Cell Transplant**
  Desai, S. H., Spinner, M. A., David, K. A., Bachanova, V., Goyal, G., Azzi, J., Dorritie, K., Kenkre, V. P., Chang, C., Arai, S., Fusco, B., Sumransub, N., Hactic, et al
  AMER SOC HEMATOLOGY.2021

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  Sidana, S., Bankova, A. K., Hosoya, H., Kumar, S., Tamaresis, J., Le, A., Muffly, L., Johnston, L. J., Arai, S., Lowsky, R., Meyer, E. H., Rezvani, A. R., Weng, et al
  AMER SOC HEMATOLOGY.2021

- **Incidence and risk factors associated with bleeding and thrombosis following chimeric antigen receptor T-cell therapy** *BLOOD ADVANCES*
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  Cutler, C. S., Lee, S. J., Arai, S., Rotta, M., Zoghi, B., Lazaryan, A., Ramakrishnan, A., DeFilipp, Z., Salhotra, A., Chai-Ho, W., Mehta, R. S., Wang, T., Arora, et al
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- **Outcomes after delayed and second autologous stem cell transplant in patients with relapsed multiple myeloma.** *Bone marrow transplantation*
  Lemieux, C., Muffly, L. S., Iberri, D. J., Craig, J. K., Johnston, L. J., Lowsky, R., Shiraz, P., Rezvani, A. R., Frank, M. J., Weng, W., Meyer, E., Shizuru, J. A., Arai, et al
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- **Inferior Clinical Outcomes in Recipients of Cryopreserved Grafts Following Reduced Intensity Allogeneic Hematopoietic Cell Transplantation: A Single Center Report**
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  SPRINGERNATURE.2021: 181

- **Phase 2 study of MGTA-145+plerixafor for rapid and reliable hematopoietic stem cell (HSC) mobilization for autologous transplant in multiple myeloma.**
  Sidana, S., Bankova, A., Hosoya, H., Muffly, L. S., Kumar, S., Johnston, L. J., Lowsky, R., Meyer, E., Rezvani, A., Weng, W., Arai, S., Frank, M., Shiraz, et al
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  Liang, E. C., Muffly, L. S., Shiraz, P., Shizuru, J. A., Johnston, L., Arai, S., Frank, M. J., Weng, W., Lowsky, R., Rezvani, A., Meyer, E. H., Negrin, R., Miklos, et al
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- **Immune reconstitution and infectious complications following axicabtagene ciloleucel therapy for large B-cell lymphoma** *BLOOD ADVANCES*

Baird, J. H., Epstein, D. J., Tamaresis, J. S., Ehlinger, Z., Spiegel, J. Y., Craig, J., Claire, G. K., Frank, M. J., Muffly, L., Shiraz, P., Meyer, E., Arai, S., Brown, et al

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- **Allogeneic transplantation after PD-1 blockade for classic Hodgkin lymphoma.** *Leukemia*

  Merryman, R. W., Castagna, L. n., Giordano, L. n., Ho, V. T., Corradini, P. n., Guidetti, A. n., Casadei, B. n., Bond, D. A., Jaglowski, S. n., Spinner, M. A., Arai, S. n., Lowsky, R. n., Shah, et al

  2021

- **Jun Activation in Dermal Fibroblasts Promotes Fibrosis and Inflammation in Sclerodermatous Graft-vs-host Disease in Mice and Humans**

  Mueller, A., Cui, L., Lerbs, T., King, M., Muscat, C., Shibata, T., Lee, J., Brown, R., Fernandez-Pol, S., Arai, S., Shizuru, J., Wernig, G.

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- **Outcomes with Autologous or Allogeneic Stem Cell Transplantation in Patients with Plasma Cell Leukemia in the Era of Novel Agents.** *Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation*

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  2020

- **Autologous stem cell transplantation versus no transplant in patients above 70 with multiple myeloma.**

  Lemieux, C., Muffly, L. S., Iberri, D., Rezvani, A., Lowsky, R., Frank, M., Craig, J. K., Liedtke, M., Negrin, R., Weng, W., Meyer, E., Johnston, L. J., Shizuru, et al

  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Impact of proteasome inhibitor vs. IMiD maintenance therapy on outcomes of patients with high-risk multiple myeloma (HRMM).**

  Tam, E., Iberri, D., Liedtke, M., Muffly, L. S., Shiraz, P., Frank, M., Lowsky, R., Rezvani, A., Negrin, R., Meyer, E., Arai, S., Johnston, L. J., Shizuru, et al

  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Successful treatment of thrombocytopenia with daratumumab after allogeneic transplant: a case report and literature review.** *Blood advances*

  Migdady, Y., Ediriwickrema, A., Jackson, R. P., Kadi, W., Gupta, R., Socola, F., Arai, S., Martin, B. A.

  2020; 4 (5): 815–18

- **Allogeneic Hematopoietic Cell Transplantation for Adult Acute Lymphoblastic Leukemia: Significant Increase in Survival in the Post-Targeted Immunotherapy Era**

  Muffly, L., Arai, S., Johnston, L., Lowsky, R., Meyer, E. H., Miklos, D. B., Negrin, R. S., Rezvani, A., Shiraz, P., Shizuru, J. A., Sidana, S., Weng, W., Cunanan, et al

  ELSEVIER SCIENCE INC.2020: S106

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  Chung, A. n., Kaufman, G. P., Sidana, S. n., Eckhert, E. n., Schrier, S. L., Lafayette, R. A., Arai, S. n., Witteles, R. M., Liedtke, M. n.

  2020; 4 (3): 458–66

- **Outcomes in Patients With Cardiac Amyloidosis Undergoing Heart Transplantation.** *JACC. Heart failure*

  Barrett, C. D., Alexander, K. M., Zhao, H. n., Haddad, F. n., Cheng, P. n., Liao, R. n., Wheeler, M. T., Liedtke, M. n., Schrier, S. n., Arai, S. n., Weisshaar, D. n., Witteles, R. M.

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- **CD22-Directed CAR T-Cell Therapy Induces Complete Remissions in CD19-Directed CAR-Refractory Large B-Cell Lymphoma.** *Blood*

  Baird, J. H., Frank, M. J., Craig, J. n., Patel, S. n., Spiegel, J. Y., Sahaf, B. n., Oak, J. S., Younes, S. n., Ozawa, M. n., Yang, E. n., Natkunam, Y. n., Tamaresis, J. S., Ehlinger, et al

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- **Nonmyeloablative allogeneic transplantation achieves clinical and molecular remission in cutaneous T-cell lymphoma.** *Blood advances*

  Weng, W. K., Arai, S. n., Rezvani, A. n., Johnston, L. n., Lowsky, R. n., Miklos, D. n., Shizuru, J. n., Muffly, L. n., Meyer, E. n., Negrin, R. S., Wang, E. n., Almazan, T. n., Million, et al

  2020; 4 (18): 4474–82

- **Outcomes with autologous stem cell transplant vs. non-transplant therapy in patients 70 years and older with multiple myeloma.** *Bone marrow transplantation*

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- **Grading cardiac response in AL amyloidosis: implications for relapse and survival** *BRITISH JOURNAL OF HAEMATOLOGY*

  Eckhert, E., Witteles, R., Kaufman, G., Lafayette, R., Arai, S., Schrier, S., O'Shaughnessy, M., Liedtke, M.

  2019; 186 (1): 144–46

- **Transplantation of donor grafts with defined ratio of conventional and regulatory T cells in HLA-matched recipients** *JCI INSIGHT*

  Meyer, E. H., Laport, G., Xie, B. J., MacDonald, K., Heydari, K., Sahaf, B., Tang, S., Baker, J., Armstrong, R., Tate, K., Tadisco, C., Arai, S., Johnston, et al

  2019; 4 (10)

- **Three prophylaxis regimens (tacrolimus, mycophenolate mofetil, and cyclophosphamide; tacrolimus, methotrexate, and bortezomib; or tacrolimus, methotrexate, and maraviroc) versus tacrolimus and methotrexate for prevention of graft-versus-host disease with haemopoietic cell transplantation with reduced-intensity conditioning: a randomised phase 2 trial with a non-randomised contemporaneous control group (BMT CTN 1203).** *The Lancet. Haematology*

  Bolanos-Meade, J., Reshef, R., Fraser, R., Fei, M., Abhyankar, S., Al-Kadhimi, Z., Alousi, A. M., Antin, J. H., Arai, S., Bickett, K., Chen, Y., Damon, L. E., Efebera, et al

  2019; 6 (3): e132–e143

- **A Changing Landscape of Mortality for Systemic Light Chain Amyloidosis.** *JACC. Heart failure*

  Barrett, C. D., Dobos, K. n., Liedtke, M. n., Tuzovic, M. n., Haddad, F. n., Kobayashi, Y. n., Lafayette, R. n., Fowler, M. B., Arai, S. n., Schrier, S. n., Witteles, R. M.

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- **Nonmyeloablative TLI-ATG conditioning for allogeneic transplantation: mature follow-up from a large single-center cohort.** *Blood advances*

  Spinner, M. A., Kennedy, V. E., Tamaresis, J. S., Lavori, P. W., Arai, S. n., Johnston, L. J., Meyer, E. H., Miklos, D. B., Muffly, L. S., Negrin, R. S., Rezvani, A. R., Shizuru, J. A., Weng, et al

  2019; 3 (16): 2454–64

- **Transplantation of donor grafts with defined ratio of conventional and regulatory T cells in HLA-matched recipients.** *JCI insight*

  Meyer, E. H., Laport, G. n., Xie, B. J., MacDonald, K. n., Heydari, K. n., Sahaf, B. n., Tang, S. W., Baker, J. n., Armstrong, R. n., Tate, K. n., Tadisco, C. n., Arai, S. n., Johnston, et al

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- **Grading cardiac response in AL amyloidosis: implications for relapse and survival.** *British journal of haematology*

  Eckhert, E., Witteles, R., Kaufman, G., Lafayette, R., Arai, S., Schrier, S., O'Shaughnessy, M., Liedtke, M.

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- **A Case Report of Refractory Immune Thrombocytopenia (ITP) Following Reduced Intensity Conditioning (RIC) Hematopoietic Cell Transplantation (HCT) for Myelodysplastic Syndrome (MDS) Successfully Treated with Off-Label Use of Daratumumab**

  Migdady, Y., Gupta, R., Ediriwickrema, A., Socola, F., Arai, S., Martin, B. A.

  AMER SOC HEMATOLOGY.2018

- **Elevated Axicabtagene Ciloleucel (CAR-19) Expansion By Immunophenotyping Is Associated with Toxicity in Diffuse Large B-Cell Lymphoma**

  Spiegel, J. Y., Sahaf, B., Hossain, N., Frank, M. J., Claire, G., Abramian, M., Latchford, T., Villa, B., Cancilla, J., Oak, J., Natkunam, Y., Long, S. R., Arai, et al

  AMER SOC HEMATOLOGY.2018

- **Hedgehog Pathway Inhibitor for Treatment of Steroid-Refractory Sclerodermatous Chronic Graft-Versus-Host Disease (GVHD)**

  Gupta, R., Albabtain, A., Arai, S., Kwong, B., Weng, W.

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- **Graded Cardiac Response Correlates with Relapse and Survival in AL Amyloidosis**

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  AMER SOC HEMATOLOGY.2018

- **Nonmyeloablative Allogeneic Transplantation Using TLI-ATG Conditioning for Lymphoid and Myeloid Malignancies: Mature Follow-up from a Large, Single Institution Cohort**

Spinner, M. A., Kennedy, V. E., Tamaresis, J. S., Lavori, P. W., Elder, L. V., Arai, S., Johnston, L. J., Meyer, E. H., Miklos, D. B., Muffly, L. S., Negrin, R. S., Rezvani, A. R., Shizuru, et al

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- **Donor-derived MDS/AML in families with germline GATA2 mutation** *BLOOD*

  Galera, P., Hsu, A. P., Wang, W., Droll, S., Chen, R., Schwartz, J. R., Klco, J. M., Arai, S., Maese, L., Zerbe, C., Parta, M. J., Young, N. S., Holland, et al

  2018; 132 (18): 1994–98

- **Amphiregulin modifies the Minnesota Acute Graft-versus-Host Disease Risk Score: results from BMT CTN 0302/0802** *BLOOD ADVANCES*

  Holtan, S. G., DeFor, T. E., Panoskaltsis-Mortari, A., Khera, N., Levine, J. E., Flowers, M. E. D., Lee, S. J., Inamoto, Y., Chen, G. L., Mayer, S., Arora, M., Palmer, J., Cutler, et al

  2018; 2 (15): 1882–88

- **Design and Patient Characteristics of the Chronic Graft-versus-Host Disease Response Measures Validation Study** *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*

  Lee, S. J., Flowers, M. E. D., Storer, B., Onstad, L., Kurukulasuriya, C., Jagasia, M., Hamilton, B., Chen, G., Cutler, C., Broady, R., Arora, M., Pidala, J., Alousi, et al

  2018; 24 (8): 1727–32

- **Final results from a defibrotide treatment-IND study for patients with hepatic veno-occlusive disease/sinusoidal obstruction syndrome** *BRITISH JOURNAL OF HAEMATOLOGY*

  Kernan, N. A., Grupp, S., Smith, A. R., Arai, S., Triplett, B., Antin, J. H., Lehmann, L., Shore, T., Ho, V. T., Bunin, N., Iacobelli, M., Liang, W., Hume, et al

  2018; 181 (6): 816–27

- **Infusion of donor-derived CD8(+) memory T cells for relapse following allogeneic hematopoietic cell transplantation** *BLOOD ADVANCES*

  Muffly, L., Sheehan, K., Armstrong, R., Jensen, K., Tate, K., Rezvani, A. R., Miklos, D., Arai, S., Shizuru, J., Johnston, L., Meyer, E., Weng, W., Laport, et al

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