



CURRICULUM VITAE

Amir Ali Hamidieh M.D.

I. Personal Data

Birth date: 23 Sep 1972
Place of birth: Tehran
Hometown: Tehran
Citizenship: Iran
Nationality: Iranian
Marital status: Married
Phone: +98 21 61472396, +98 21 66915659
Fax: +98 21 66948444
Email address: aaahamidieh@tums.ac.ir
Current position: Professor of Pediatric Hematology/Oncology and Stem Cell Transplantation, Tehran University of Medical Sciences
Work address: Pediatric Stem Cell Transplant Department Children's Medical Center, Qarib St, Keshavarz Blvd, Tehran 14194, Iran

II. Academic Appointments

2018-present Professor, Tehran University of Medical Sciences, Pediatric Stem Cell Transplant Department, Children's Medical Center

2012-2018 Associate Professor, Tehran University of Medical Sciences, Pediatric Stem Cell Transplant Department, Children's Medical Center, Hematology-Oncology and SCT Research Center, Shariati Hospital

2007-2012 Assistant Professor, Tehran University of Medical Sciences, Hematology-Oncology and SCT Research Center, Shariati Hospital

III. Education

- 2011** **Course of Hematopoietic Stem Cell Transplantation, MD Anderson Cancer Center, University of Texas, Houston, USA**
- 2009** **Course of Pediatric Hematopoietic Stem Cell Transplantation, Texas Children's Hospital, Center for Cell and Gene Therapy, Baylor College of Medicine, Houston, USA**
- 2003-2006** **Pediatric Hematology/Oncology, Fellowship, Mofid Children's Hospital Shaheed Beheshti University of Medical Sciences, Tehran, Iran**
- 1999-2002** **Pediatrics, Residency, Mofid Children's Hospital, Shaheed Beheshti University of Medical Sciences, Tehran, Iran**
- 1990-1997** **M.D. Faculty of Medicine, Tehran Azad University, Medical Sciences, Tehran, Iran**

IV. Board Certification

- 2002** **Iranian Board of Pediatrics**
2006 **Iranian Board of Pediatric Hematology/Oncology**

V. Administrative Positions

- 2026-present** **Advisor to the President and Secretary of the Innovation and Acceleration Committee Red Crescent Society of the Islamic Republic of Iran**
- 2025-present** **Executive board member, School of Medicine, Tehran University of Medical Sciences**
- 2024-present** **Executive board member, Iran National Science Foundation**
- 2023-present** **Head, Pediatric Hematology / Oncology and Stem Cell Transplantation Department, Tehran University of Medical Sciences**
- 2023-2025** **Executive board member, University of Tehran, School of Medicine.**
- 2021-present** **Director, Gene, Cell & Tissue Institute, Tehran University of Medical Sciences**

- 2020-2021** Director, Iranian Tissue Bank & Research Center, Tehran University of Medical Sciences.
- 2019-present** Founder and Director, Pediatric Cell & Gene Therapy Research Center, Tehran University of Medical Sciences
- 2018-present** Director, Innovation Center for Stem Cell and Regenerative Medicine, Tehran University of Medical Sciences
- 2017-present** Academic Board Member, Iranian Pediatric Hematology/Oncology, Minister of Health and Medical Education
- 2016-present** Executive board member, Iranian Food & Drug Administration (IFDA)
- 2016-present** Founder and Director, Pediatric Stem Cell Transplantation Program, Children's Medical Center, Tehran University of Medical Sciences
- 2015-present** Secretary General, Council for Stem Cell and Regenerative Medicine, Tehran University of Medical Sciences
- 2015-2023** Chairman, National Council for Development of Stem Cell Sciences and Technologies
- 2015-present** Executive Board Member, Iranian National Stem Cell Donor Network (INSCDN)
- 2015-2016** Secretary General, Iranian National Stem Cell Donor Network (INSCDN), Iranian Ministry of Health and Medical Education
- 2015-2022** Executive Board Member, Council for Development of Stem Cell Sciences and Regenerative Medicine, Tehran University of Medical Sciences
- 2014-2015** Education Deputy, Department of Applied Cell Sciences, School of Advanced Medical Technologies, Tehran University of Medical Sciences
- 2014-2023** Executive Board Member, National Council for Development of Stem Cell Sciences and Technologies
- 2013-2024** Executive Board Member, Asia Pacific Blood and Marrow Transplantation Group (APBMT)
- 2012-present** Scientific Committee Member, Asia Pacific Blood and Marrow Transplantation Group (APBMT)
- 2011-2016** Secretary General, Iranian Society of Hematopoietic Stem Cell Transplantation (ISHSCT)
- 2011-2016** Board of Directors, Iranian Society of Hematopoietic Stem Cell Transplantation (ISHSCT)
- 2010-present** Representative of Eastern Mediterranean Blood and Marrow Transplantation Group, Worldwide Network for Blood & Marrow Transplantation (WBMT)
- 2009-present** Chairman, Histocompatibility, Alternate Donor Transplantation, Donor Health Committee in Eastern Mediterranean Blood and Marrow Transplantation Group (EMBMT)
- 2009-present** Board of Directors, Eastern Mediterranean Blood and Marrow Transplantation Group (EMBMT)

- 2008-2014 **Founder and Director, Iranian Stem Cell Donor Program (ISCDP)**
- 2007-2016 **Founder and Director, Pediatric Stem Cell Transplantation Program,
Hematology-Oncology and SCT Research Center, Shariati Hospital
Tehran University of Medical Sciences**

VI. Memberships & Review for Journals

- 2019-present **Reviewer, Pediatric Working Party/ European Group for Blood and Marrow Transplantation, EBMT Annual Congress**
- 2018-present **Editorial Board, Bio Impacts Editorial**
- 2017-present **Board, Blood Cell Therapy**
- 2015-present **Reviewer, Annals of Hematology Journal**
- 2015-present **Reviewer, Bone Marrow Transplantation Journal**
- 2014-present **Reviewer, Medicine (Baltimore) Journal**
- 2013-present **Editorial Board, Magazine of European Medical Oncology**
- 2013-present **Reviewer, International Journal of Organ Transplantation Medicine**
- 2012-present **Reviewer, Pediatric Transplantation Journal**
- 2012-present **Section Editor, Acta Medica Iranica Journal**
- 2011-present **Editorial Board, Hematology/Oncology and Stem Cell Therapy Journal**
- 2010-present **Reviewer, Archives of Iranian Medicine Journal**
- 2010-present **Member of the Asia Pacific Blood and Marrow Transplantation Group, APBMT**
- 2010-present **Scientific Board of the Royan International Research Award**
- 2010-present **Reviewer, Iranian Journal of Pediatrics**
- 2009-present **Member of European Group for Blood and Marrow Transplantation, EBMT**
- 2009-present **Member of the American Society for Blood and Marrow Transplantation, ASBMT**
- 2009-present **Reviewer, Iranian Journal of Blood and Cancer**
- 2008-present **Member of the European Hematology Association, EHA**
- 2008-present **Reviewer, Iranian Journal of Allergy, Asthma and Immunology**
- 2007-present **Associate Editor, International Journal of Hematology-Oncology and Stem Cell Research**

2007-present **Member of Iranian Society of Hematopoietic Stem Cell Transplantation (ISHSCT)**

2004-present **Member of the Iranian Society of Pediatric Hematologists/Oncologists**

2002-present **Member of the Iranian Society of Pediatricians**

Research Projects (ongoing and finished)

1. Association of Pre-Conditioning Serum Uric Acid Levels with Outcomes of Allogeneic Hematopoietic Stem Cell Transplantation in Children
2. Predictive Factors for the Development of Persistent Thrombocytopenia After Hematopoietic Stem Cell Transplantation in Children: A Retrospective Cohort Study
3. Evaluation of Tumor-Infiltrating Lymphocyte Function in Children with Neuroblastoma Using Neuroblastoma Cell Lines in an In Vitro Co-Culture Model: Phase I – Cell Isolation and Expansion
4. Efficacy of Cell Therapy Using Allogeneic Natural Killer Cells in High-Risk Pediatric Neuroblastoma Patients Following Hematopoietic Stem Cell Transplantation: A Phase II Clinical Trial
5. Outcomes of Hematopoietic Stem Cell Transplantation in Patients with Hyper-IgE Syndrome at the Children's Medical Center
6. Outcomes of Hematopoietic Stem Cell Transplantation in Patients with Hemoglobinopathies Based on the Timing of Anti-Thymocyte Globulin Administration
7. Preclinical Evaluation of BCL11A Gene-Edited Stem Cells for Gene Therapy of Hemoglobinopathies: Beta-Thalassemia and Sickle Cell Disease
8. Association of Serum 25-Hydroxyvitamin D Levels with Clinical Outcomes in Children Undergoing Hematopoietic Stem Cell Transplantation: A Systematic Review and Meta-Analysis
9. Design and Optimization of a Nanoliposomal Cannabis Ointment Focusing on Physicochemical Properties, Skin Permeation, and Anti-Inflammatory Activity
10. Generation of Induced Pluripotent Stem Cells and Their Differentiation into Germ Cell-Like Cells; Phase I
11. Registry and Data Management of Patients with Rare Inherited Cytopenias in Iran
12. Assessment of Pre-transplantation Blinatumomab Effects on Non-TBI HSCT Outcomes in Pediatric B-ALL.
13. Establishment of an allogeneic T lymphocyte bank with specificity against CMV, based on the prevalence of common HLA alleles in Iran.
14. Bioinformatics Analysis of Microarray Data to Identify Hub Genes as Biomarkers for Chronic Graft-Versus-Host Disease.
15. Iranian Non-Fanconi Inherited Bone Marrow Failure Syndromes Registration
16. The correlation between HLA class II mismatch and allograft survival in kidney transplant recipients: a systematic review.
17. Production of induced pluripotent stem cells and their differentiation towards Germ Cell-Like Cells.
18. A successful hematopoietic stem cell transplantation in a patient with Heimler syndrome: Case report.

19. Design and construction of a chimeric antigen receptor targeting CD19 with IL-15 gene and caspase 9 inducer suicide gene, and evaluation of its expression in NK cells isolated from umbilical cord blood cells.
20. Investigation of the relationship between KIR receptor profiles of donors and recipients in haploidentical transplants and transplant outcomes in patients registered at the Pediatric Center for Stem Cell Transplantation.
21. Design, Construction, and Evaluation of Dual-Targeting CARs Against CCR9 and CD7 Using Lentiviral Vector.
22. Design and Production of low-resolution HLA typing kit for A, B, C, DR, DQ loci.
23. Investigating the Therapeutic Potential and Disease Modeling of iPSC-Derived Cells in Leukemia: Current In Vitro and Clinical Trial Evidence.
24. Investigating the results of hematopoietic stem cell transplantation using a non-radiation preparation regimen in children with acute lymphoblastic leukemia with and without central nervous system involvement based on the HLA compatibility in patients who have been transplanted from September 2018 to June 2025 in the transplant department of the Children's Medical Center Hospital.
25. Comparison and evaluation of the clinical outcomes in pediatric B-ALL patients who underwent non-TBI HSCT after receiving Blinatumomab.
26. Prognostic value of 131I-MIBG Scintigraphy in High-Risk Neuroblastoma on Outcomes After Autologous Stem Cell Transplantation and 131I-MIBG Therapy.
27. Design, manufacture, and commissioning of flow cytometry instrument (4 channels) and its consumables.
28. Acute Graft-versus-Host Disease Prediction in Pediatric Patients Following Allogeneic Hematopoietic Stem Cell Transplantation Using an Artificial Intelligence Model.
29. Comparison of the results of hematopoietic stem cell transplantation in children, allogeneic transplantation from fresh cell source with frozen (Cryopreserved).
30. Design and evaluation of anti-GD2 gamma delta CAR-T on a malignant neuroblastoma cell line.
31. Comparing the efficacy and side effects of Romiplostim in thrombocytopenia caused by thrombocytopenic purpura of the immune system and thrombocytopenia caused by other diseases in children.
32. Investigation of the safety of mesenchymal stem cells with the origin of menstrual blood in the treatment of grade IV GVHD resistant to steroids in children.
33. Investigation of the level of toxicity of natural killer cells following inhibition of PD-1 and TIGIT receptors on AML cell line in laboratory conditions.
34. In vitro phase of SMN1 gene replacement in fibroblastic cells of a patient with SMA type I lacking SMN expression.
35. Making allogeneic platelet paste from umbilical cord blood and investigating its effect on treatment-resistant GVHD wounds of the oral cavity: a pilot clinical trial
36. Implementation of a phase one clinical trial using pseudo-memory NK cells, along with determining the mismatch of KIR receptors from the second donor after haploidentical transplantation in children with AML.
37. Investigating the therapeutic effect of Romiplostim in thrombocytopenia after hematopoietic stem cell transplantation in children
38. Evaluation of the efficacy of T-cell receptor-based therapy in neuroblastoma

39. Comparison of the results of hematopoietic stem cell transplantation in child patients who are candidates for allogeneic transplantation from fresh and cryopreserved cell sources.
40. Beta thalassemia gene therapy (first phase): construction of an efficient lentivirus construct carrying the human beta globin gene and its transduction into CD34 stem cells isolated from thalassemia major patients
41. Evaluation of the effectiveness of ruxolotinib in treatment-resistant acute gastrointestinal GVHD after hematopoietic stem cell transplantation in children
42. Investigating the effect of cytomegalovirus infection and its treatment on the complications and outcome of transplantation after hematopoietic stem cell transplantation in children
43. Preclinical investigation of the effect of miR-326 and miR-328 on the expression of Granzyme B, perforin, and the cytotoxic function of NK cells in Wilms tumor
44. Genetic modification of the LAD-1 gene by high-fidelity CRISPR-Cas9 using the HDR method in human hematopoietic stem cells (HSC)
45. Investigating factors related to hemorrhagic cystitis and its prognosis after hematopoietic stem cell transplantation in children
46. Implementation of a phase one clinical trial using pseudo-memory NK cells, along with determining the mismatch of KIR receptors from the second donor after haploidentical transplantation in children with AML
47. Investigating the effect of Plerixafor on the release of hematopoietic stem cells (+CD34) in children with neuroblastoma who are candidates for autologous hematopoietic stem cell transplantation
48. Investigation of the relative frequency of acute kidney injury with urine NGAL and serum creatinine indicators in the diagnosis of acute kidney injury after hematopoietic stem cell transplantation in the children's medical center from March 2021 to March 2022
49. Comparison of the prevalence of complications and prognosis of allogeneic hematopoietic stem cell transplantation before and after the COVID-19 pandemic (from September 2014 to March 2015) in Children's Medical Center
50. Investigating survival rate and incidence of GVHD in children receiving T-globulin 25 as an immunosuppressive agent during hematopoietic stem cell transplantation
51. Determining the effectiveness of photopheresis using cryopreservation in the treatment of GVHD resistant to steroids in children
52. Establishing an HLA biobank of brain-dead organ donors and evaluation of HLA compatibility between donors and recipients
53. Safety assessment of the CD19 CAR T cell on the B cell acute lymphoblastic leukemia in pediatric patients
54. Iranian Fanconi Anemia Registry
55. Clinical trial phase I and II of allogeneic NK cells in Coronavirus Pneumonia patients, interventional, both sides blind, open-label, randomized
56. Evaluation of Safety and Effectiveness of Allogeneic Adipose-Derived Mesenchymal Stem Cells in Bronchiolitis Obliterans Syndrome (BOS) after Allogeneic Hematopoietic Stem Cell Transplantation
57. HCL aerosols effect study on alveolar epithelial cells infected by COVID-19 and side effects evaluation thereof on the rabbit animal model
58. Safety and Effectiveness evaluation of Allogeneic Cord Blood Platelet Gel (CBPG) for the

- treatment of nonhealing skin ulcers/erosion due to the cutaneous chronic GVHD: A Randomized Clinical Trial (Pilot study)
59. A Randomized Clinical Trial Phase I- & II of III-Times Intrathecal Injections of Umbilical Cord Derived Mesenchymal cells in Children with Spastic Cerebral Palsy
 60. Determining optimum operating conditions of rotational blood component separator
 61. Wharton's Jelly Derived-Mesenchymal Stem Cells Transplantation in Pediatric Patients with Non-Ischemic Dilated Cardiomyopathy
 62. Efficacy of Chimeric Antigen Receptor Modified Umbilical Cord Blood Natural Killer Cells for the Immunotherapy of Acute Lymphoblastic Leukemia
 63. Developing Cancer Treatment Strategies based on activation of intratumoral immunity via mRNA technology
 64. The Safety Evaluation of Ex vivo Activated Haploidentical Natural Killer Cells (NK) in Recurrent Glioblastoma Multiform patients (Clinical Trial Phase I)
 65. Measurement of blood levels of D-dimer and CRP in brain-dead patients and the effect of a therapeutic dose of heparin on organ receptors in these patients
 66. Investigate the relationship between RDW and the Prognosis of brain death and cardiac death
 67. Evaluation and standardization of fresh osteochondral allograft scaffolds for irreversible cartilage defect in vitro and in vivo studies
 68. Evaluation of the effect of stromal vascular fraction (SVF) and allogeneic fibroblasts on diabetic wound healing in a rat model: A comparison in terms of wound closure rate and histopathological examination in terms of epithelialization and angiogenesis
 69. Isolation, characterization, and standard storage of Research Degree Adipose Tissue-Derived Mesenchymal Stem Cells (ADMSCs) of Brain Death patients for commercialization
 70. The safety and efficiency evaluation of allogenic Natural Killer cell therapy in relapsed Neuroblastoma pediatric patients post hematopoietic stem cell transplantation: Phase I clinical study
 71. The effect of Peripheral blood NK Cell-activated with Exosomes in a mouse model of Wilms' tumor
 72. Immune Cell Therapy Using WT1-Specific Human Cytotoxic T Cells for WT1+Wilms Tumor Bearing Immunodeficient Mice
 73. Therapeutic effect of unrestricted somatic stem cells (USSC) in the sepsis animal model
 74. Posterior reversible encephalopathy syndrome after hematopoietic stem cell transplantation in pediatric patients
 75. Human β globin gene editing with application of CRISPR/Cas9 system in hematopoietic stem cells aimed at the cure of β thalassemia and sickle cell anemia
 76. Induced hemorrhagic cystitis with cyclophosphamide in rats
 77. Tissue engineering of ovine heart by GFP-positive newborn rat cells seeding on the acellular myocardial flap using a novel combined bioreactor
 78. Comparison of cell expansion and cell transduction methods for the generation of efficient chimeric receptor antigen T cells
 79. Tissue engineering of ovine heart by GFP-positive newborn rat cells seeding on the acellular myocardial flap using a novel combined bioreactor
 80. Therapeutic potential of exosomes generated from human embryonic stem cell-derived Mesenchymal Stromal Cells in liver injury model

81. Effectiveness of allogeneic adipose-derived mesenchymal stem cells (ADMSCs) in the phenotypic changes of Werdnig-Hoffman patients
82. Effectiveness of Natural Killer cells treated with interleukin-2 for therapy in Neuroblastoma mouse Model
83. Induced hemorrhagic cystitis with cyclophosphamide in rats
84. Long-term outcomes of fludarabine, melphalan, and anti-thymocyte globulin as a reduced-intensity conditioning regimen for hematopoietic stem cell transplantation in children with primary immunodeficiency disorders
85. Hematopoietic stem cell transplantation among Diamond Blackfan Anemia patients applying Busulfan plus Cyclophosphamide \pm rATG
86. Investigation of novel mutations in patients with leukocyte adhesion deficiency-type I, Wiskott-Aldrich, DOCK8 deficiency, Severe congenital neutropenia
87. Oral mucositis prevention in patients with Fanconi Anemia undergoing Stem Cell Transplantation
88. Hematopoietic stem cell transplantation results in pediatric acquired severe aplastic anemia: Stem cell source perspective.
89. Plasma levels of vitamin A and E for thalassemic patients undergoing hematopoietic stem cell transplantation
90. Comparison of the results of one-locus HLA-mismatched Stem Cell Transplantation from relative Donors with HLA full-matched relative donors
91. Malignant infantile osteopetrosis skeletal changes following hematopoietic stem cell transplantation.
92. Extended family search: Efficiency of allogeneic stem cell transplantation from HLA fully-matched non-sibling relatives
93. Comparing the results of hematopoietic stem cell transplantation using a preparative regimen without TBI in patients with acute lymphoblastic leukemia with and without centralnervous system involvement
94. Elastography assessment of liver iron overload in patients with thalassemia major afterstem-cell transplantation
95. Allogeneic Hematopoietic Stem Cell Transplantation for Patients with Hereditary Bone Marrow Failure Syndromes
96. Impact of Beta-Globin Mutations on Outcome of Hematopoietic Stem Cell Transplantation for Patients with Beta-Thalassemia Major
97. Reduced-intensity conditioning regimen for Hematopoietic Stem Cell Transplantation in primary hemophagocytic lymphohistiocytosis
98. Non-TBI Hematopoietic Stem Cell Transplantation in Pediatric Leukemia Patients
99. Evaluation of the benefit and side effects of double-unit umbilical cord blood stem cell transplantation in hematologic malignancies with non-TBI regimen
100. Bone mineral density in ex-thalassemic pediatric patients
101. Study of minor histocompatibility matching with recipients between HLA-identical siblings and HLA-matched other related donors
102. Evaluation of the benefit and side effects of myeloablative regimen for the treatment of malignant Osteopetrosis
103. Evaluation of the benefit and side effects of myeloablative regimen for the treatment

- of malignant Mucopolysaccharidosis (MPS)
104. Iranian Stem Cell Donor Program
 105. MRI T2* assessment of liver and heart iron overload in patients with thalassemia major after stem cell transplantation
 106. Resilience, mental health, and quality of life in HSCT children's caregivers.
 107. Daclizumab in children with corticosteroid-refractory gastrointestinal acute GVHD
 108. Hepatocytes of donor origin in the recipient liver of class III beta thalassemia major patients who had undergone co-transplantation of Stem cells and mesenchymal progenitor cells
 109. Evaluation of benefits and side effects of 131I-MIBG in combination with myeloablative chemotherapy and autologous bone marrow transplantation for the treatment of high-risk neuroblastoma
 110. Reduced-intensity conditioning hematopoietic stem Cell Transplantation for pediatric patients with primary immunodeficiencies
 111. Treatment of children suffering from CML: comparison of the results of treatment with imatinib mesylate and HSCT
 112. Lorazepam for seizure prophylaxis during high-dose busulfan administration in children undergoing bone marrow transplantation
 113. Quantitation of human cytomegalovirus DNA in plasma using an affordable in-house qPCR assay
 114. Busulfan-based stem cell transplantation without total body irradiation in Fanconi anemia patients
 115. Prevalence of hypoparathyroidism and hypothyroidism in major thalassemia patients
 116. Prevalence of zinc and copper deficiency in major thalassemia patients
 117. Prevalence of Helicobacter pylori infection in Pediatric chronic ITP
 118. Incidence of hearing loss in newborns hospitalized in the Neonates

VII. Publications

Articles

1. Taghinejad Z, Moradi N, Talebi A, Jafari L, Soleimanzadeh H, **Hamidieh AA**. Advances in Cell Therapy for Chronic Graft-versus-Host Disease: Prophylactic and Therapeutic Perspectives. *Clin Exp Med*. 2026 May 5. doi: 10.1007/s10238-026-02120-8. PMID: 42084784.
2. Khosravi A, Ghasempour A, Paridar M, Mashati P, Darvishi M, Karimzadeh M, Mohseni R, **Hamidieh AA**. Autophagy and Reactive Oxygen Species in Megakaryopoiesis and Platelet Production. *DNA Cell Biol*. 2026 Feb 19:10445498251361641. doi: 10.1177/10445498251361641. PMID: 40810174.
3. Farajifard H, Karimzadeh A, Behfar M, Farokhmanesh S, Padidaran M, Khosroabadi G, Jafari L, **Hamidieh AA**. Outcomes of DPB1 Mismatch in Pediatric Allogeneic Hematopoietic Stem Cell Transplantation: Time to Move Past Chromosome 6? *Transplant Cell Ther*. 2026 Feb 13:S2666-6367(26)00114-4. doi: 10.1016/j.jtct.2026.02.011. PMID: 41692396.

4. Karimizadeh Z, Behfar M, Karimizadeh A, Jafari L, Kalantari A, Nikfetrat Z, **Hamidieh AA**. Efficacy and Safety of Romiplostim in Treating Thrombocytopenia after Hematopoietic Stem Cell Transplantation in Pediatric Patients: A Single-Arm Clinical Trial. *Transplant Cell Ther*. 2026 Jan 5:S2666-6367(26)00002-3. doi: 10.1016/j.jtct.2025.12.1003. PMID: 41500465.
5. Razaghian A, Badalzadeh M, **Hamidieh AA**, et al. A Cohort Study of 38 Classic Wiskott-Aldrich Syndrome Cases with Six Novel Mutations. *J Clin Immunol*. 2026 Feb 20;46(1):27. doi: 10.1007/s10875-026-01986-3. PMID: 41718912.
6. Jahanpanah M, Behfar M, Farajifard H, Karimizadeh A, Jafari L, Ramezani S, Mokaram Doost Delkhah M, **Hamidieh AA**. The impact of rabbit anti-thymocyte globulin (thymoglobulin) timing and dosing on pediatric stem cell transplantation outcomes: Time to move forward. *Transpl Immunol*. 2026 Apr 30;96:102395. doi: 10.1016/j.trim.2026.102395. PMID: 42069233.
7. **Hamidieh AA**, Behfar M, Nejati N, Azar SS, Salmanifard Ardestani MT, Malik R, Kashani H, Mohseni R, Jafari L. Importance of BCG Vaccination at birth in Pediatric Patients with Chronic Granulomatous Disease after Hematopoietic Stem Cell Transplantation in Developing Countries. *Immunol Lett*. 2026 Feb;277:107083. doi: 10.1016/j.imlet.2025.107083. PMID: 40902675.
8. Kalantari A, Karimizadeh Z, Jafari L, Behfar M, **Hamidieh AA**. Thrombocytopenia after Hematopoietic Stem Cell Transplantation in Pediatrics and Adults: A Narrative Review Including Etiology, Management, Monitoring, and Novel Therapies. *Semin Thromb Hemost*. 2026 Feb;52(1):106-125. doi: 10.1055/a-2673-4266. PMID: 40749741.
9. Jahanpanah M, Ghasempour A, Mokhtari D, Eshghi S, Mousakhan Bakhtiari M, Salmanifard Ardestani MT, Jafari L, Behfar M, **Hamidieh AA**. MicroRNA-181a in acute lymphoblastic leukemia: expression pattern, target genes and its potential as a biomarker. *Biochem Biophys Rep*. 2025 Dec 11;45:102405. doi: 10.1016/j.bbrep.2025.102405. PMID: 41488202.
10. Nekouei NK, Najjari N, Farajifard H, Esmail N, Naseroleslami M, Sari S, Behfar M, Ghamari A, **Hamidieh AA**. Tregs in Allogeneic Hematopoietic Stem Cell Transplantation: Suppressing Graft-Versus-Host Disease while Preserving Graft-Versus-Leukemia. *Transplant Cell Ther*. 2025 Dec 29:S2666-6367(25)02654-5. doi: 10.1016/j.jtct.2025.12.991. PMID: 41475518.
11. Movahedi M, Moradi L, Alizadeh Z, Yazdi MT, Dehbashi S, Shoormasti RS, Maddah M, Razaghian A, **Hamidieh AA**, et al. Efficacy and Safety of Pegfilgrastim in Patients With Severe Congenital Neutropenia. *EJHaem*. 2025 Dec 10;6(6):e70198. doi: 10.1002/jha2.70198. PMID: 41384228.
12. Yang P, Khoshandam M, Bhia I, Raji S, Soltaninejad H, Hosseinkhani S, Sani M, **Hamidieh AA**, Sheykhasan M. Integrating CRISPR/Cas technology with clinical trials: Principles, progress and challenges. *Asian J Pharm Sci*. 2025 Dec;20(6):101068. doi: 10.1016/j.ajps.2025.101068. PMID: 41809894.
13. Jafari L, Ashkevari P, Ansari S, Delkhah M, Karamlou Y, Asephi N, Kashani H, Mohseni

- R, Farajifard H, Salmanifard MT, Jafari F, Behfar M, **Hamidieh AA**. Cryopreservation as an Alternative Approach for Applying Photopheresis Products to Treat Graft-Versus-Host Disease (GVHD) Among Pediatric Patients in Developing Countries. *Pediatr Transplant*. 2025 Nov;29(7):e70208. doi: 10.1111/ptr.70208. PMID: 41138227.
14. Pouraboli B, Maleki M, Nayeri ND, **Hamidieh AA**, Mardani A. Obstacles and facilitators of parents' coping with hematopoietic stem cell transplantation of a child with cancer. *PLoS One*. 2025 Oct 24;20(10):e0335013. doi: 10.1371/journal.pone.0335013. PMID: 41134765.
15. Materna M, Seyedpour S, Le Voyer T, Parvaneh N, Yazdanpanah N, **Hamidieh AA**, et al. Two different forms of inherited human TCR α chain deficiency. *J Hum Immun*. 2025 Jul 7;1(2). doi: 10.70962/jhi.20250014. PMID: 41103553.
16. Gholizadeh M, Abdoli S, Mansoori S, Arashkia A, Riazi-Rad F, **Hamidieh AA**, Nouri M, Sharifzadeh Z. Expression and functional characterization of an anti-CD22 scFv targeting B-cell malignancies. *Res Pharm Sci*. 2025 Jun 17;20(3):373-391. doi: 10.4103/RPS.RPS_248_24. PMID: 40687289.
17. Dehshiri M, Zarein F, Rajabi F, Javan MR, Nikkiah M, Rahbarizadeh F, Mehrzad J, Moazzeni SM, **Hamidieh AA**, Hosseinkhani S. Efficient gene delivery to immune cells via a recombinant multifunctional chimeric peptide nanocarrier: Implications in immunotherapy. *Nanomedicine*. 2025 Aug;68:102837. doi: 10.1016/j.nano.2025.102837. PMID: 40532900.
18. Rohani P, Tejareh F, **Hamidieh AA**, Behfar M, Sohoul MH. Assessment of pre- and post-transplant concentrations of citrulline, zonulin, and calprotectin in children undergoing allogeneic hematopoietic cell transplantation. *Curr Res Transl Med*. 2025 Dec;73(4):103525. doi: 10.1016/j.retram.2025.103525. PMID: 40614605.
19. Muhsen IN, Niederwieser D, Garderet L, Penack O, Greinix HT, El Fakih R, Abdeljelil NB, Abosoudah I, Alamoudi S, Albeihany A, Al Daama SA, Alshahrani MH, Alshemmari S, Al-Khabori M, Almasari A, Al Rawas A, Askar M, Bazarbachi A, Bekadja MA, Benakli M, Borhany M, Kababri ME, Halahleh K, **Hamidieh AA**, et al. Acute and chronic graft-versus-host disease treatment and management in the Eastern Mediterranean region: A Worldwide Network for Blood and Marrow Transplantation survey. *Hematol Oncol Stem Cell Ther*. 2025 Apr-Jun 01;18(2):79-85. doi: 10.4103/hemoncstem.HEMONCSTEM-D-25-00005. PMID: 40539439.
20. Kalantari A, Karimizadeh Z, Behfar M, **Hamidieh AA**. Treatment Options for Bronchiolitis Obliterans Secondary to Hematopoietic Cell Transplantation in Children: A Systematic Review. *Clin Transplant*. 2025 Aug;39(8):e70274. doi: 10.1111/ctr.70274. PMID: 40794819.
21. Izadi E, Mohammadi SS, Ganjalikhani Hakemi M, Eshghi S, Saremi L, Saltanatpour Z, **Hamidieh AA**. Current biological, chemical and physical gene delivery approaches for producing induced pluripotent stem cells (iPSCs). *Eur J Pharmacol*. 2025 Sep 15;1003:177786. doi: 10.1016/j.ejphar.2025.177786. PMID: 40513933
22. **Jahanpanah M**, Jafari L, Behfar M, Alipour N, Ahad F, Mohseni R, Mohsenipour R,

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Abstracts

1. **Amir Ali Hamidieh**, Maryam Behfar, Leila Jafari, et al. HETEROGENEOUS NON-HEMATOLOGIC AUTOIMMUNE COMPLICATIONS AFTER ALLOGENEIC HSCT IN PEDIATRIC LEUKEMIA: INCIDENCE, SPECTRUM, AND OUTCOMES IN A SINGLE-CENTER COHORT, 52nd Annual Meeting of the European Society for Blood and Marrow Transplantation. 22-25 March 2026, Madrid, Spain.
2. **Amir Ali Hamidieh**, Atieh Karimzadeh, Maryam Behfar, et al. FROM CHILDHOOD TO ADOLESCENCE: LONG-TERM RISKS AND RECOVERY MORE THAN FIVE YEARS AFTER NON-TBI HSCT, 52nd Annual Meeting of the European Society for Blood and Marrow Transplantation. 22-25 March 2026, Madrid, Spain.
3. Atieh Karimzadeh M.D., Atoosa Eftekhari Miss, Maryam Behfar M.D., Amirreza Kamyabi Mr., Soheil Pourheidari M.D., Behnaz Nikoubin Miss, Mohammad Jahanpanah M.D., Hamid Farajifard Ph.D, **Amir Ali Hamidieh M.D.** BEYOND RARE: HEMATOPOIETIC TRANSPLANTATION IN THE WORLD'S RAREST IMMUNODEFICIENCIES, American Society of transplantation and cellular therapy annual meeting, February 4-7 2026, Salt Lake City, USA.
4. **Amir Ali Hamidieh**, Maryam Behfar, Leila Jafari, Mohammad Jahanpanah, Hamideh Farajifard, Zahra Karimzadeh, Fatemeh Ghaedi. HETEROGENEOUS AUTOIMMUNE COMPLICATIONS FOLLOWING NON-TBI ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANTATION: A SINGLE-CENTER REPORT ON PEDIATRIC PATIENTS WITH MAJOR THALASSEMIA. American Society of transplantation and cellular therapy annual meeting, February 4-7 2026, Salt Lake City, USA.
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CURRICULUM VITAE
Amir Ali Hamidieh M.D.

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34. Rashin Mohseni, Mahta Mardani, Maryam Behfar, Parisa Naji, Fereshteh Jafari, Zeynab Nikfetrat, Leila Hejazipour, Dima Barhoom, Poorya Salajegheh, **Amir Ali Hamidieh**. Unmanipulated Haploidentical Stem Cell Transplantation for Pediatric Patients with Acute Leukemia: An Experience from the Largest Children's Hospital in Iran. 47th Annual Meeting of the European Society for Blood and Marrow Transplantation. 14–17 March, 2021. Virtual Meeting.

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CURRICULUM VITAE

Amir Ali Hamidieh M.D.

May 2026

Page 41 from 61

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38. Maryam Behfar, Mahta Mardani, Rashin Mohseni, Dima Barhoom, Hamid Farajifard, Sahar Taebi, **Amir Ali Hamidieh**. Reduced-Intensity Hematopoietic Stem Cell Transplantation for Chronic Granulomatous Disease: A Single Centre Experience. 25th Annual Congress of APBMT. 2020. India

39. Rashin Mohseni, Maryam Behfar, Dima Barhoom, Fahimeh Jafari, Leila Hejazipour, Zeynab Nikfetrat, Sahar Taebi, **Amir Ali Hamidieh**. The Outcome of Children with Mucopolysaccharidosis Following Allogeneic Peripheral Blood Stem Cell Transplantation Using Non-Sibling Donors. 25th Annual Congress of APBMT. 2020. India

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41. **Amir Ali Hamidieh**. The Impact of Stem Cell Sciences and Regenerative Medicine on Society. The 5th International USERN Congress 2020, Iran

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CURRICULUM VITAE

Amir Ali Hamidieh M.D.

May 2026

Page 44 from 61

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Books

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3. Ayas M, Ghavamzadeh A, Aljurf M, **Hamidieh A.A.**, Alseraihy A. Umbilical Cord BloodBanking and Transplantation. Cord Blood Transplantation in the East MediterraneanRegion, Chapter 12.2013, Springer pub.
4. **Hamidieh A.A.**: ANEMIAS. 2006, Teimourzadeh pub.
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VIII. Honors and Awards

1. Selected as the influential face in Iran Biotechnology / 5th International Conference and 13th National Biotechnology Conference, 2023.
2. Selected clinical researcher in the 28th Razi Medical Sciences Research and Technology Festival, 2023.
3. Alborz Prize (Iranian Nobel) Award for Great Scientific Contribution, 2021.
4. Third Prize for Best Oral Presentation at 17th Congress of the Asia Pacific Blood and Marrow Transplantation, October 26 – 28, 2012, Hyderabad, India.
5. Young Investigator Award for Best Scientific Presentation in Clinical Nuclear Medicine for “Autologous hematopoietic stem cell transplantation in patients with high-risk neuroblastoma treated with/without 131I-MIBG” presented at the 10th Asia Oceania Congress of Nuclear Medicine and Biology (AOFNMB). 16 - 20 May 2012, Tehran, Iran.
6. Outstanding Poster Award for "Treatment of Inborn Errors of Metabolism with Allogeneic Hematopoietic Stem Cell Transplantation" presented at the 16th Congress of the Asia Pacific Blood and Marrow Transplantation, October 30, 2014- 2 November 2011, Sydney, Australia.
7. Selected as an "Exemplary Professor" of Shariati Hospital on Teacher's AppreciationDay, 2011.
8. Awarded Eleventh Avicenna Festival for developing innovative procedures in the delivery of clinical services, “Establish the Iranian Unrelated Bone Marrow Donor Registry”. Tehran University of Medical Sciences, 2010
9. ASBMT Young Investigator Award, ASBMT Tandem meetings, Feb. 24-28, 2010, Orlando, Florida
10. Outstanding Poster Award for "Hematopoietic stem cell transplantation in primary immunodeficiency disease: The Iranian Experience" presented at 14th Congress of Asia-Pacific Blood and Marrow Transplantation, Aug. 27-29, 2009, Seoul, Korea
11. Awarded the Medical Book of the Year award, entitled ANEMIA, 2006
12. Honored as the best researcher, Shahid Beheshti University of Medical Sciences, 2006