



Miltenyi Biotec



Reference list (April 2025)

CliniMACS® CD45RA Depletion

Memory T-cell enriched haploidentical transplantation with NK cell addback results in promising long-term outcomes: a phase II trial

Naik S, Li Y, Talleur AC, Selukar S, Ashcraft E, Cheng C, Madden RM, Mamcarz E, Qudeimat A, Sharma A, Srinivasan A, Suliman AY, Epperly R, Obeng EA, Velasquez MP, Langfitt D, Schell S, Métais JY, Arnold PY, Hijano DR, Maron G, Merchant TE, Akel S, Leung W, Gottschalk S, Triplett BM. Memory T-cell enriched haploidentical transplantation with NK cell addback results in promising long-term outcomes: a phase II trial.

J Hematol Oncol. (2024) 27:17:50.

<https://doi.org/10.1186/s13045-024-01567-0>

Results of phase 2 randomized multi-center study to evaluate the safety and efficacy of infusion of memory T cells as adoptive therapy in severe acute respiratory syndrome corona virus 2 (SARS-CoV-2) pneumonia and/or lymphopenia (RELEASE NCT04578210)

Ferreras C, Hernandez-Blanco C, Martín-Quiros A, Al-Akioui-Sanz K, Mora-Rillo M, Ibanez F, Díaz-Almiron M, Cano-Ochando J, Lozano-Ojalvo D, Jimenez-Gonzalez M, Goterris R, Sanchez-Zapardiel E, de Paz R, Guerra-García P, Queiruga-Parada J, Molina P, Briones ML, Ruz-Caracuel B, Borobia AM, Carcas AJ, Planelles D, Vicario JL, Moreno MA, Balas A, Llano M, Llorente A, del Balzo A, Canada C, García MA, Calvin ME, Arenas I, Perez de Diego R, Eguizabal C, Soria B, Solano C, Perez-Martínez A

Cytotherapy (2024) 26:25-35

<https://doi.org/10.1016/j.jcyt.2023.10.002>

TCRαβ-depleted hematopoietic stem cell transplant and third-party CD45RA+ depleted adoptive cell therapy for treatment of post-transplant parvovirus B19 aplastic crisis

Zhang M, Luo C, Wang J, Zhu H, Luo C, Qin X, Huang X, Lin Y, Chen J

Int. J. Infect. Dis. 144 (2024) 107043

<https://doi.org/10.1016/j.ijid.2024.107043>

Safety and Efficacy of High-dose Memory CD45RO+ Donor Lymphocyte Infusion in Pediatric Recipients after Hematopoietic Stem Cell Transplantation

Gasior Kabat M, Li Y, Galán V, Mozo Y, Sisinni L, Bueno D, Corral D, Naik S, Echecopar Parente C, Aguirre-Portolés C, Al-Akioui K, De Paz R, Marcos A, Belén Romero A, Talleur A, Jiménez Yuste V, Triplett B, Pérez-Martínez A

Cytotherapy (2024) 26:1458-1464

<https://doi.org/10.1016/j.jcyt.2024.07.007>

Memory T Cell Donor Lymphocyte Infusion As a Treatment for Viral Reactivations after Pediatric Haploidentical Hematopoietic Stem Cell Transplant Congress abstract

Li Y, Chan WYK, Cheuk KLD, Lee PP, Leung WH Blood (2023) 142 (Supplement 1): 3544–3544.

<https://doi.org/10.1182/blood-2023-184877>

Familial CD45RA- T cells to treat severe refractory infections in immunocompromised patients

Al-Akioui Sanz K, Echecopar Parente C, Ferreras C, Menéndez Ribes M, Alfonso Navarro1, Mestre C, Clares L, Vicario JL, Balas A, De Paz R, López Granados E, Sánchez Zapardiel E, Jiménez C, López-Oliva M, Ramos E, Hernández-Oliveros F, Pérez-Martínez A

Frontiers in medicine (2023) 10.3389/fmed.2023.1083215

<https://doi.org/10.3389/fmed.2023.1083215>

CD3+TCRαβ/CD19+- Depleted Mismatched Family or Unrelated Donor Salvage Stem Cell Transplantation for Graft Dysfunction in Inborn Errors of Immunity

Ramanathan S, Lum SH, Nademi Z, Carruthers K, Watson H, Flood T, Owens S, Williams E, Hambleton S, Gennery AR, Slatter M

Transplantation and Cellular Therapy (2023)

29:513.e1-513.e9

<https://doi.org/10.1016/j.jtct.2023.05.019>

Selective depletion of naïve T cells by targeting CD45RA

Naik S, Triplett BM

Front. Oncol. (2023) 12:1009143

<https://doi.org/10.3389/fonc.2022.1009143>

Selected memory T cells infused post haploidentical hematopoietic stem cell transplantation persist and hyper-expand

van Beek JJP, Puccio S, Di Vito C, De Paoli F, Zaghi E, Calvi M, Scarpa A, Peano C, Basso G, Cibella J, De Philippis C, Sarina B, Timofeeva I, Capizzuto R, Mannina D, Minerri R, Mariotti J, Crocchiolo R, Santoro A, Castagna L, Bramanti S, Mavilio D, Lugli E

Blood Advances (2023) 7:3458-3468

<https://doi.org/10.1182/bloodadvances.2022007735>

Haploidentical CD3+ TCR αβ/CD19+-depleted HSCT for MHC class II deficiency and persistent SARS-CoV-2 pneumonitis

Ramanathan S, Veramendi-Espinoza L, Shillitoe B, Flinn A, Owens S, Williams E, Emonts M, Hambleton S, Burton-Fanning S, Waugh S, Flood T, Gennery AR, Slatter M, Nademi Z

Journal of Allergy and Clinical Immunology: Global (2023) 2:101-104

<https://doi.org/10.1016/j.jaciig.2022.08.006>

Rationale for combined therapies in severe-to-critical COVID-19 patients

Gonzaga A, Andreu E, Hernández-Blasco LM, Meseguer R, Al-Akioui-Sanz K, Soria-Juan B, Sanjuan-Gimenez JC, Ferreras C, Tejedo JR, Lopez-Lluch G, Goterris R, Maciá L, Sempere-Ortells JM, Hmadcha A, Borobia A, Vicario JL, Bonora A, Aguilar-Gallardo C, Poveda JL, Arbona C, Alenda C, Tarín F, Marco FM, Merino E, Jaime F, Ferreres J, Figueira JC, Cañada-Illana C, Querol S, Guerreiro M, Eguizabal C, Martín-Quiros A, Robles-Marhuenda A, Pérez-Martínez A, Solano C, Soria B

Front. Immunol. (2023) 14:1232472

<https://doi.org/10.3389/fimmu.2023.1232472>

Naive T-Cell Depletion to Prevent Chronic Graft-Versus-Host Disease

Bleakley M, Sehgal A, Seropian S, Biernacki MA, Krakow EF, Dahlberg A, Persinger H, Hilzinger B, Martin PJ, Carpenter PA, Flowers ME, Voutsinas J, Gooley TA, Loeb K, Wood BL, Heimfeld S, Riddell SR, Shlomchik WD

Journal of Clinical Oncology (2022) 40:1174-1185.

<https://doi.org/10.1200/JCO.21.01755>

Naïve T-Cell Depletion to Prevent GVHD: Searching for a Better Mousetrap

Soiffer RJ

JCO (2022) 40:1139

<https://doi.org/10.1200/JCO.22.00105>

Development of a cGMP-compliant process to manufacture donor-derived, CD45RA-depleted memory CD19-CAR T cells

Kim-Hoehamer YI, Riberdy JM, Zheng F, Park JJ, Shang N, Métais JY, Lockey T, Willis C, Akel S, Moore J, Meagher MM, Velasquez MP, Triplett BM, Talleur AC, Gottschalk S, Zhou S

Gene Ther (2022) 30:222-231

<https://doi.org/10.1038/s41434-021-00307-0>

Phase I dose-escalation single centre clinical trial to evaluate the safety of infusion of memory T cells as adoptive therapy in COVID-19 (RELEASE)

Perez-Martinez A, Mora-Rillo M, Ferreras C, Guerra-García P, Pascual-Miguel B, Mestre-Duran C, Borobia AM, Carcas AJ, Queiruga-Parada J, García I, Sanchez-Zapardiel E, Gasior M, De Paz R, Marcos A, Vicario JL, Balash A, Moreno MA, Eguizabal C, Solano C, Arribas JR, de Miguel Buckley R, Montejano R, Soria B

EClinicalMedicine (2021) 39:101086

<https://doi.org/10.1016/j.eclinm.2021.101086>

Feasibility and Efficacy of CD45RA+ Depleted Donor Lymphocytes Infusion After Haploidentical Transplantation With Post-Transplantation Cyclophosphamide in Patients With Hematological Malignancies

Castagna L, Valli V, Timofeeva I, Capizzuto R, Bramanti S, Mariotti J, De Philippis C, Sarina B, Mannina, D, Giordano L, De Paoli F, van Beek JJP, Zaghi E, Calvi M, Di Vito C, Mavilio D, Crocchiolo R, Lugli E

Transplantation and Cellular Therapie (2021) 27:478.e1-478.e5

<https://doi.org/10.1016/j.jtct.2021.03.010>

"Ex-vivo" T-cell depletion in allogeneic hematopoietic stem cell transplantation: New clinical approaches for old challenges

Diaz MA, Gasior M, Molina B, Pérez-Martínez A, González-Vicent M

European J Haematol. (2021) 107:38-47

<https://doi.org/10.1111/ejh.13636>

Outcomes of allogeneic transplantation for hemoglobin Bart's hydrops fetalis syndrome in Hong Kong

Chan WYK, Lee PPW, Lee V, Chan GCF, Leung W, Ha SY, Cheuk DKL

Pediatric Transplantation. (2021) 25:e14037

<https://doi.org/10.1111/petr.14037>

HLA-Haploidentical Hematopoietic Cell Transplantation of Ex Vivo Tcrαβ-Depleted Grafts with CD45RA-Depleted Memory T Cell Add-Back in Adults and Children with Hematological Malignancies: 4-Year Follow-up of Multicenter Study in Singapore

Congress abstract

Ian Q Wu, Yeh Ching Linn, Yang Liang Boo, Rajat

Bhattacharyya, Zi Yi Lim, Michelle Poon, Michaela Su-Fern Seng, Poh Lin Tan, Colin Phipps, Balamurugan Vellayappan, Ah Moy Tan, Lip Kun Tan, Yvonne Su Ming Loh, Teck Guan Soh, Gina Gan, Yin Jie Koh, Wing H. Leung, Liang Piu Koh

Blood (2021) 138 (Supplement 1): 555.

<https://doi.org/10.1182/blood-2021-152372>

Safety and efficacy of the low-dose memory (CD45RA-depleted) donor lymphocyte infusion in recipients of αβ T cell-depleted haploidentical grafts: results of a prospective randomized trial in high-risk childhood leukemia

Dunaikina M, Zhekhvotsova Z, Shelikhova L, Glushkova S, Nikolaev R, Blagov S, Khismatullina R, Balashov D, Kurnikova E, Pershin D, Muzalevskii Y, Kazachenok A, Osipova E, Miakova N, Litvinov D, Novichkova G, Maschan A, Maschan M

Bone Marrow Transplant. (2021) 56:1614–1624

<https://doi.org/10.1038/s41409-021-01232-x>

Depletion of CD45RA+ T cells: Advantages and disadvantages of different purification methods

Bremm M, Krastel T, Cappel C, Zimmermann O, Pfeffermann LM, Katzki V, Boenig H, Schäfer R, Rettinger E, Merker M, Bremm S, Schaefer K, Klingebiel T, Soerensen J, Bader P, Huenecke S

Journal of Immunological Methods, (2021) 492:112960

<https://doi.org/10.1016/j.jim.2021.112960>

Serotherapy-Free Regimen Improves Non-Relapse Mortality and Immune Recovery Among the Recipients of ab TCell-Depleted Haploidentical Grafts: Retrospective Study in Childhood Leukemia

Shelikhova L, Glushkova S, Nikolaev R, Dunaikina M, Zhekhvotsova Z, Blagov S, Khismatullina R, Balashov D, Kurnikova, Pershin D, Muzalevskii Y, Kazachenok A, Osipova E, Trakhtman P, Maschan A, Maschan M

Transplantation and Cellular Therapie (2021) 27:330.e1-330.e9

<https://doi.org/10.1016/j.jtct.2021.01.010>

Phase I dose escalation study of naive T-cell depleted donor lymphocyte infusion following allogeneic stem cell transplantation

Maung K, Chen BJ, Barak I, Li Z, Rizzieri DA, Gasparetto C, Sullivan KM, Long GD, Engemann AM, Waters-Pick B, Rowe-Nichols K, Lopez R, Kang Y, Sarantopoulos S, Sung AD, Chao NJ, Horwitz ME
Bone Marrow Transplantation (2021) 56:137–143
<https://doi.org/10.1038/s41409-020-0991-5>

Selective T-cell depletion targeting CD45RA as a novel approach for HLA-mismatched hematopoietic stem cell transplantation in pediatric nonmalignant hematological diseases

Gasior Kabat M, Bueno D, Sisinni L, De Paz R, Mozo Y, Perona R, Arias-Salgado EG, Rosich B, Marcos A, Belén Romero A, Constanzo A, Jiménez-Yuste V, Pérez-Martínez A
International Journal of Hematology (2021) 114:116–123
<https://doi.org/10.1007/s12185-021-03138-2>

A phase I/II dose-escalation multi-center study to evaluate the safety of infusion of natural killer cells or memory T cells as adoptive therapy in coronavirus pneumonia and/or lymphopenia: RELEASE study protocol

García-García I, Guerra-García P, Ferreras C, Borobia AM, Carcas AJ, Queiruga-Parada J, Vicario JL, Mirones I, Solano C, Eguizabal C, Soria B, Pérez-Martínez A
Trials (2021) 22:674
<https://doi.org/10.1186/s13063-021-05625-7>

Haploidentical CD45RA-Negative Donor Lymphocyte Infusions Are Feasible, Safe and Associated with Clinical Benefit

Congress abstract
Talleur AC, Li Y, Akel S, Sharma A, Qudeimat A, Srinivasan A, Mamcarz E, Madden R, Gottschalk S, Triplett BM
Biol Blood Marrow Transplant (2020) 26:S268
<https://doi.org/10.1016/j.bbmt.2019.12.435>

Repeated CD45RA-depleted DLI successfully increases donor chimerism in a patient with beta-thalassemia major after haploidentical stem cell transplant

Chan WJK, Kwok JSY, Chiang AKS, Chan GCF, Lee PPW, Ha SY, Cheuk DKL
Pediatric Transplantation. 2020;00:e13945.
<https://doi.org/10.1111/petr.13945>

Successful treatment of refractory CMV colitis after haploidentical HSCT with post-transplant cyclophosphamide using CD45RA+ depleted donor lymphocyte infusion

Hyun Jin Park, Kyung Taek Hong, Sun Ok Yun, Hong Yul Ahn, Jung Yoon Choi, Hee Young Shin, Hyoung Jin Kang
Bone Marrow Transplantation (2020) 55:1674–1676
<https://doi.org/10.1038/s41409-019-0685-z>

Adoptive T-cell therapy with CD45RA-depleted donor in the treatment of cytomegalovirus disease in immunocompromised non-transplant patients

Yuste JR, López-Díaz de Cerio A, Rifón J, Moreno C, Panizo M, Inogés S
Antivir Ther (2019) 24:313-319.
<https://doi.org/10.3851/IMP3307>

Improved survival rate in T-cell depleted haploidentical hematopoietic cell transplantation over the last 15 years at a single institution

Mamcarz E, Madden R, Qudeimat A, Srinivasan A, Talleur A, Sharma A, Suliman A, Maron G, Sunkara A, Kang G, Leung W, Gottschalk S, Triplett BM
Bone Marrow Transplantation (2020) 55:929–938
<https://doi.org/10.1038/s41409-019-0750-7>

Infusion of memory T cell (CD45RA-Depleted) DLI improves CMV-specific immune response early after ABT cell-depleted HSCT: First results of a prospective randomized trial

Congress abstract
Shekhovtsova Z, Dunaykina M, Shelikhova L, Balashov D, Kurnikova E, Muzalevsky Y, Kazachenok A, Osipova E, Kiseleva V, Pershin D, Shasheleva D, Khismatullina R, Blagov S, Abrosimov A, Shipitsina I, Gutovskaya E, Novichkova G, Maschan A, Maschan M
Bone Marrow Transplantation (2019) 54:40 Abstract O046
<https://doi.org/10.1038/s41409-019-0562-9>

NKG2D-CAR T cells as an immunotherapy against pediatric hematological malignancies

Congress abstract
Fernández L, Fernández A, Escudero A, Cardoso L, Valentín J, Leivas A, Vela M, Martínez-López J, Valés M, Pérez-Martínez M
Bone Marrow Transplantation (2019) 54:178 Abstract P056
<https://doi.org/10.1038/s41409-019-0559-4>

Automated manufacturing of clinical grade NKG2DCAR memory T cells using clinimacs prodigy

Congress abstract
Fernández A, Fernández L, Mirones I, Escudero A, Cardoso L, Leivas A, Martínez-López J, Romero AB, Marcos A, Lanzarot D, De Paz R, Pérez-Martínez A
Bone Marrow Transplantation (2019) 54:184 Abstract P064
<https://doi.org/10.1038/s41409-019-0559-4>

Safety and outcome of high-dose donor CD45RO+ memory T-cells infusion after allogeneic transplantation

Congress abstract
Gasior Kabat M, Bueno D, De Paz R, Mozo Y, Rosich B, Sisinni L, Marcos A, Romero AB, Constanzo A, Jimenez Yuste V, Perez Martinez A
Bone Marrow Transplantation (2019) 54:185 Abstract P065
<https://doi.org/10.1038/s41409-019-0559-4>

Automated generation of CD45RA depleted donor lymphocyte infusion (DLI) with the clinimacs prodigy® CD45RA system

Congress abstract
Stenzel JJ, Soltenborn S, Thießen C, Hebbeker F, Langeveld K, Meißner R, Malchow M, Papanikolaou E, Bosio A, Assemacher M, Dziona J
Bone Marrow Transplantation (2019) 54:194 Abstract P080
<https://doi.org/10.1038/s41409-019-0559-4>

Excellent outcome using 'NKTm' enriched hematopoietic stem cell transplants for patients with inborn errors of immunity

Congress abstract
Tan PL, Yeap F, Chan C, Francisco K, Villegas M, Yeoh A
Bone Marrow Transplantation (2019) 54:395 Abstract P390
<https://doi.org/10.1038/s41409-019-0559-4>

Delayed immune reconstitution and subsequent infections can be improved with a viral prophylaxis in a pediatric hospital post haploidentical HSCT with clinimacs device: Peruvian experience

Congress abstract
Vidurizaga-De Amezaga C, Benavides-Vallve C, Murillo-Vizcarra S, Rojas-Fernandez K, Pinto-Gossin K, Davila Carlin O
Bone Marrow Transplantation (2019) 54:450 Abstract P476
<https://doi.org/10.1038/s41409-019-0559-4>

Experience using G-CSF and plerixafor for stem cell mobilization in haploidentical transplantation with ex-vivo T-depletion for pediatric patients

Congress abstract
Gasior Kabat M, Rivas Pollmar MI, Pérez Martínez A, García Pérez E, Dos Santos A, Romero AB, o Marcos A, Panizo Echauri I, De Paz R
Bone Marrow Transplantation (2019) 54:594 Abstract P710
<https://doi.org/10.1038/s41409-019-0559-4>

Depletion of CD45RA+ naive t cells for haploidentitic stem cell transplantation

Congress abstract

Bremm Melanie, Theresa Krastel, Olga Zimmermann, Katzki Verena, Lisa-Marie Pfeffermann, Jan Sørensen, Halvard Bonig, Claudia Cappel, Thomas Klingebiel, Peter Bader, Sabine Huenecke

Bone Marrow Transplantation (2019) 54:595 Abstract P712
<https://doi.org/10.1038/s41409-019-0559-4>

Phase I, dose escalation study of naive T-cell depleted donor lymphocyte infusion following allogeneic stem cell transplantation

Congress abstract

Maung KK, Chen BJ, Rizzieri DA, Gasparetto C, Sullivan K, Long GD, Morris Engemann A, Waters-Pick B, Rowe Nichols K, Lopez R, Kang Y, Sarantopoulos S, Sung AD, Chao NJ, Horwitz ME

Biol Blood Marrow Transplant (2019) 25(S205–S206):S252
<https://doi.org/10.1016/j.bbmt.2018.12.254>

CD45 RA Depletion as an allogeneic hematopoietic transplantation platform in children from HLA-identical donors

Congress abstract

Diaz MA, Molina B, Sebastian E, Galvez E, Zubicaray J, Sevilla J, Gonzalez Vicent M.

Biol Blood Marrow Transplant (2019) 25(S205–S206):S205
<https://doi.org/10.1016/j.bbmt.2018.12.280>

$\alpha\beta$ T cell-depleted haploididentical hematopoietic stem cell transplantation without antithymocyte globulin in children with chemorefractory acute myelogenous leukemia

Shelikhova L, Ilushina M, Shekhovtsova Z, Shasheleva D, Khismatullina R, Kurnikova E, Pershin D, Balashov D, Radygina S, Trakhtman P, Kalinina I, Muzalevskii Y, Kazachenok A, Zaharova V, Brilliantova V, Olshanskaya Y, Panferova A, Zerkalenkova E, Baidildina D, Novichkova G, Rumyantsev A, Maschan A, Maschan M

Biol Blood Marrow Transplant. (2019) 25:e179-e182

<https://doi.org/10.1016/j.bbmt.2019.01.023>

Development of T-cell immunotherapy for hematopoietic stem cell transplantation recipients at risk of leukemia relapse

Dossa RG, Cunningham T, Sommermeyer D, Medina-Rodriguez I, Biernacki MA, Foster K,

Bleakley M

Blood (2018) 131:108-120

<https://doi.org/10.1182/blood-2017-07-791608>

Unexpected High Incidence of Human Herpesvirus-6 Encephalitis after Naïve T Cell Depleted Graft of Haploididentical Stem Cell Transplantation in Pediatric Patients

Sisinni L, Gasior M, de Paz R, Querol S, Bueno D, Fernandez L, Marsal J, Sastre A, Gimeno R, Alonso L, Badell I, Lopez-Granados E, Torres J, Medina L, Torrent M, Diaz de Heredia C, Escudero A, Perez-Martinez A

Biol Blood Marrow Transplant (2018) 24:2316-2323

<https://doi.org/10.1016/j.bbmt.2018.07.016>

Sequential infusion of Tcra β - and CD45RA-depleted haploididentical progenitor cells is safe and allows for rapid immune reconstitution in pediatric patients with recurrent hematological malignancies

Congress abstract

Suliman AY, Li Y, Cullins D, Sooter AJ, Riberdy J, Renee M, Mamcarz E, Qudeimat A, Sharma A, Srinivasan A, Talleur A, Sunkara A, Kang G, Gottschalk S, Triplett B

60th Annual Meeting of American Society of Hematology

Blood (2018) 132 (Supplement 1): 4574.

<https://doi.org/10.1182/blood-2018-99-110886>

HLA-haploididentical hematopoietic cell transplantation after TCR- $\alpha\beta$ and CD45RA+ depletion following reduced intensity conditioning in adults and children with hematological malignancies

Congress abstract

Koh LP, Leung WH, Poon M, Tan LK, Tan PL, Vellayappan B, Bhattacharyya R, Tan AM, Soh TG, Linn YC

Blood (2018) 132 (Supplement 1): 2093.

<https://doi.org/10.1182/blood-2018-99-116296>

Infusion of donor memory T-cells as a safe strategy to improve immune reconstitution after haploididentical stem cell transplant

Congress abstract

Figueira A, Perez A, Rosich B, Mozo Y, Bueno D, San Roman S, Gonzalez B, Rubio P, Plaza D, Sastre A, De Paz R, Perez Martinez A

Bone Marrow Transplant. (2018) 53:230 Abstract P112

<https://doi.org/10.1038/s41409-018-0354-7>

Quantitative Determination of virus-specific (CMV, EBV, ADENO) lymphocytes in donor peripheral blood and in CD45RA-depleted T-cell products before and after cryopreservation

Congress abstract

Kiseleva V, Glushkova S, Blagov S, Kurnikova E, Muzalevskii Y, Kazachenok A, Baizyanova Y, Khismatullina R, Panchenko J, Khripkova N, Osipova E, Maschan M

Bone Marrow Transplant. (2018) 53:234 Abstract P120

<https://doi.org/10.1038/s41409-018-0354-7>

Haploididentical hematopoietic stem cell transplantation with selection of CD34+ and CD45RA+ cells depletion as novel approach for severe aplastic anaemia in pediatric

Congress abstract

Gasior Kabat M, Sissini L, Bueno D, De Paz Arias R, Badell I, Torrent M, Querol S, Sanroman S, Plaza D, Marcos A, Belen Romero A, Sastre A, Valentin J, Pérez-Martínez A

Bone Marrow Transplant. (2018) 53:197 Abstract P069

<https://doi.org/10.1038/s41409-018-0354-7>

Infusion of donor-derived CD81 memory T cells for relapse following allogeneic hematopoietic cell transplantation

Muffy L, Sheehan K, Armstrong R, Jensen K, Tate K, Rezvani AR, Miklos D, Arai S, Shizuru J, Johnston L, Meyer E, Weng WK, Laport GG, Negrin RS, Strober S, and Lowsky R

Blood advances (2018), 2:681-690

<https://doi.org/10.1182/bloodadvances.2017012104>

Generation of alloreactivity-reduced donor lymphocyte products retaining memory function by fully automatic depletion of CD45RA-positive cells

Müller N, Landwehr K, Langeveld K, Stenzel J, Puowels W, van der Hoorn MAWG, Seifried E, Bonig H

Cytotherapy (2018) 20:532-542

<https://doi.org/10.1016/j.jcyt.2018.01.006>

Selective T-cell depletion targeting CD45RA reduces viremia and enhances early T-cell recovery compared with CD3-targeted T-cell Depletion

Triplett BM, Muller B, Kang G, Li Y, Cross SJ, Moen J, Cunningham L, Janssen W, Mamcarz E, Shoo DR, Srinivasan A, Choi J, Hayden RT, Leung W

Transpl Infect Dis. (2018) 20:e12823

<https://doi.org/10.1111/tid.12823>

Low-dose donor memory T-cell infusion after TCR alpha/beta depleted unrelated and haploididentical transplantation: results of a pilot trial

Maschan M, Blagov S, Shelikhova L, Shekhovtsova Z, Balashov D, Starichkova J, Kurnikova E, Boyakova E, Muzalevskii Y, Kazachenok A, Trakhtman P, Osipova E,

Khripkova N, Zhogov V, Novichkova G, Maschan A

Bone Marrow Transplant. (2017) 53:264–273

<https://doi.org/10.1038/s41409-017-0035-y>

Naïve T Cell Depletion of PBSC Grafts Results in Very Low Rates of Chronic Gvhd and High Survival

Congress abstract

Bleakley M, Gooley TA, Hilzinger B, Riddell SR, Shlomchik WD

Blood (2016) 128 (22): 668.

<https://doi.org/10.1182/blood.V128.22.668.668>

Safety, tolerability and rapid immunologic reconstitution in CD45RA depleted haploidentical hematopoietic stem cell transplantation

Congress abstract

Bueno D, Gonzalez B, Plaza D, Rubio P, Mozo Y, San Roman S, Rosich B, Sastre A, Garcia E, de Paz R, Torres J, Torrent M, Badell I, Sisini L, Perez Martinez A

Bone Marrow Transplant 51 (Suppl 1), S110–S313 (2016).

<https://doi.org/10.1038/bmt.2016.48>

Low-dose infusions of CD45RA-depleted donor lymphocytes to improve immune reconstitution after TCR alpha/beta-depleted transplantation – results of a pilot trial

Congress abstract

Blagov S, Shekhovtsova Z, Shelikhova L, Balashov D, Khismatullina R, Shasheleva D, Persiantseva M, Ilushina M, Novichkova G, Kurnikova E, Muzalevsky I, Kazachenko AK, Osipova E, Khrirkova N, Efimenko M, Boyakova E, Livshits A, Maschan A, Maschan M

Bone Marrow Transplant 51 (Suppl 1), S110–S313 (2016).

<https://doi.org/10.1038/bmt.2016.46>

Novel treatment of severe combined immunodeficiency utilizing ex-vivo T-cell depleted haploidentical hematopoietic stem cell transplantation and CD45RA+ depleted donor lymphocyte infusions

Brodzki N, Turkiewicz D, Toporski J, Truedsson L, Dykes J
Orphanet Journal of Rare Diseases (2016) 11:5

<https://doi.org/10.1186/s13023-016-0385-3>

Reduction in CMV and Adenovirus Viremia after Haploidentical Donor Transplantation Utilizing CD45RA Depletion and NK Cell Infusion

Congress abstract

Triplett BM Muller B, Kang G, Cross SJ, Moen J, Dallas MH, Hartford C, Janssen WE, Law P, Mamcarz EK, Shook DR, Srinivasan A, Hayden RT, Leung W

Blood (2015) 126: 624

<https://doi.org/10.1182/blood.V126.23.624.624>

Rapid memory T-cell reconstitution recapitulating CD45RA-depleted haploidentical transplant graft content in patients with hematologic malignancies.

Triplett BM, Shook DR, Eldridge, Li Y, Kang G, Dallas M, Hartford C, Srinivasan A, Chan WK, Suwannasaen D, Inaba H, Merchant TE, Pui CH, Leung W

Bone Marrow Transplant. (2015) 50:968-977

Erratum in: Bone Marrow Transplant. (2015) 50:1012.

<https://doi.org/10.1038/bmt.2014.324>

Haploidentical Stem Cell Transplantation Augmented by CD45RA Negative Lymphocytes Provides Rapid Engraftment and Excellent Tolerability

Shook DR, Triplett BM, Eldridge PW, Kang G, Srinivasan A, Leung W

Pediatr Blood Cancer. (2015) 62:666-673

<https://doi.org/10.1002/pbc.25352>

Outcomes of acute leukemia patients transplanted with naïve T cell-depleted stem cell grafts

Bleakley M, Heimfeld S, Loeb KR, Jones LA, Chaney C, Seropian S, Gooley TA, Sommermeyer F, Riddell SR, Shlomchik WD

J Clin Invest. (2015) 112:2677-2689

<https://doi.org/10.1172/JCI81229>

CD45RA depleted donor lymphocyte infusions for antiviral boost following ex-vivo T-cell depleted haploidentical hematopoietic stem cell transplantation

Congress abstract

Turkiewicz D, Dykes J, Pronk C, Toporski J

Bone Marrow Transplant. (2015) 50(S117–S311): S248, abstract P264

<https://doi.org/10.1038/bmt.2015.29>

A pilot trial of low-dose infusions of CD45RA depleted donor lymphocytes to improve immune reconstitution after TCR alpha/beta depleted transplantation

Congress abstract

Maschan M, Shelikhova L, Balashov D, Skvortsova J, Blagov S, Tatarinova O, Kurnikova E, Boyakova E, Muzalevskii Y, Kazachenok A, Levadnyi A, Glushkova S, Novichkova G, Maschan A

Bone Marrow Transplant. (2015) 50(S312–S499): S314, P385

<https://doi.org/10.1038/bmt.2015.30>

A Single Center Experience of Haploidentical Stem Cell Transplants in Pediatric Leukemia

Congress abstract

Tan PL, Villegas M, Soh TG, Yeoh A, Quah TC

Bone Marrow Transplant. (2015) 50(S312–S499): S462, P688

<https://doi.org/10.1038/bmt.2015.30>

CD45RA depletion in HLA-mismatched allogeneic hematopoietic stem cell transplantation for primary combined immunodeficiency: A preliminary study

Touzot F, Neven B, Dal-Cortivo L, Gabrion A, Moshous D, Cros G, Chomton M, Luby JM, Terniaux B, Magalon J, Picard C, Blanche B, Fischer A, Cavazzana M

J Allergy Clin Immunol (2015) 135:1303-9.e1-3.

<https://doi.org/10.1016/j.jaci.2014.08.019>

Effective Depletion of CD45RA+ Naïve T Cells Using the CliniMACS® System to Produce Donor Lymphocyte Infusions for Antiviral Boost Following Haploidentical Transplantation

Congress abstract

Dykes J, Hult A, Persson A, Scheding S, Lenhoff S, Toporski J, Turkiewicz D

Bone Marrow Transplant. (2014) Volume 49(S1): S218, P246

<https://doi.org/10.1038/bmt.2014.45>

Engineering Human Peripheral Blood Stem Cell Grafts That Are Depleted of Naïve T Cells and Retain Functional Pathogen-Specific Memory T cells

Bleakley M, Heimfeld S, Jones L, Turtle C, Riddell S, Shlomchik W

Biol Blood Marrow Transplant (2014) 20:705-716.

<https://doi.org/10.1016/j.bbmt.2014.01.032>

Depletion of naïve T cells using clinical grade magnetic CD45RA beads: a new approach for GVHD prophylaxis

Teschner D, Distler E, Wehler D, Frey M, Maranduc D, Langeveld K, Theobald M, Thomas S, Herr W

Bone Marrow Transplant. (2013) 49:138-144.

<https://doi.org/10.1038/bmt.2013.114>

Depletion of Naïve T Cells From Peripheral Blood Stem Cell Grafts for Gvhd Prevention

Congress abstract

Bleakley M, Heimfeld S; Jones L; Chaney C, Turtle C; Gooley T, Seropian S, Nishihori T, Riddell S; Shlomchik W

Biol Blood Marrow Transplant. (2013) 19: S318

<https://doi.org/10.1016/j.bbmt.2012.11.477>

Phenotypic and functional attributes of lentivirus-modified CD19-specific human CD8+ central memory T cells manufactured at clinical scale - PubMedWang X, Naranjo A, Brown CE, Bautista C, Wong CW, Chang WC, Aguilar B, Ostberg JR, Riddell SR, Forman SJ, Jensen MC.

J Immunother. (2012) 35:689-701,

<https://doi.org/10.1097/CJI.0b013e318270dec7>



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