

CURRICULUM VITAE

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Education:

1995-1998 Myungduk Foreign Language High School, Seoul, Korea

1998-2005 Seoul National University, College of Medicine, Seoul, Korea

2008-2010 Seoul National University, College of Medicine, Graduate School, Seoul, Korea (M.S.)

2010-2023 Seoul National University, College of Medicine, Graduate School, Seoul, Korea (Ph.D.)

Training & Profession:

2006-2007 Rotating Internship, Seoul National University Hospital, Seoul, Korea

2007-2011 Residency, Department of Laboratory Medicine, Seoul National University Hospital, Seoul, Korea

2011-2014 Section Chief, Department of Laboratory Medicine, Armed Forces Hanyang Hospital, Jeollanam-do, Korea (Military Service as Captain)

2014-2015 Clinical Fellow, Department of Laboratory Medicine, Asan Medical Center,

	Seoul, Korea
2015-2018	Clinical Fellow, Department of Laboratory Medicine, Seoul National University Hospital, Seoul, Korea
2018-2022	Assistant Professor, Department of Laboratory Medicine, Seoul National University Hospital, Seoul, Korea
2020-2022	Clinical Assistant Professor, Department of Laboratory Medicine, Seoul National University College of Medicine, Seoul, Korea
2021-2022	Guest Researcher, Center for Cellular Engineering, Department of Transfusion Medicine, Clinical Center, National Institutes of Health (USA)
2022-Present	Associate Professor, Department of Laboratory Medicine, Seoul National University Hospital, Seoul, Korea
2022-Present	Clinical Associate Professor, Department of Laboratory Medicine, Seoul National University College of Medicine, Seoul, Korea

Licensure & Certification:

2006	Certified for Korean Medical License (No. 90128)
2011	Certified for Korean Board of Laboratory Medicine (No. 847)

GCP:

2018	2018-ONL-0321 (Seoul National University Hospital)
2018	2018-INR-0076 (Seoul National University Hospital)
2019	2019-WOR-0025 (Seoul National University Hospital)
2019	2019-ALR-0584 (Seoul National University Hospital)
2020	2020-ALR-0774 (Seoul National University Hospital)
2021	2021-ALR-0390 (Seoul National University Hospital)
2022	2022-ALR-0177 (Seoul National University Hospital)
2022	2022-ALR-0528 (Seoul National University Hospital)
2023	2023-ALR-0763 (Seoul National University Hospital)
2024	2024-INB-0175 (Seoul National University Hospital)

Membership:

Korean Medical Association (KMA)
Korean Society for Laboratory Medicine (KSLM)

Korean Society of Blood Transfusion (KSBT)
Korean Society for Apheresis (KSFA)
International Society of Blood Transfusion (ISBT)
Association for the Advancement of Blood & Biotherapies (AABB)
Association for Diagnostics & Laboratory Medicine (ADLM)
American Society for Apheresis (ASFA)
International Collaboration for Transfusion Medicine Guidelines (ICTMG)

Peer Reviewed Scientific Publications:

1. Kim H, Park KU, Han KS. Blood utilization: audit of transfusion practice using an electronic review system. Korean J Blood Transfus. 2010 Aug;21(2):93-104.
2. Kim H, Park MJ, Sung TJ, Choi JS, Hyun J, Park KU, Han KS. Hemolytic disease of the newborn associated with anti-Jr(a) alloimmunization in a twin pregnancy: the first case report in Korea. Korean J Lab Med. 2010 Oct;30(5):511-515.
3. Kim H, Jun SH, Kim T, Song SH, Park KU, Song J. Measurement of serum levels of 25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 using Diels-Alder derivatization and ultra-performance liquid chromatography-tandem mass spectrometry. Lab Med Online. 2012 Oct;2(4):188-196.
4. Kim M, Kim HS, Kim YH, Choi JS, Yang HJ, Hwang SJ, Kim MJ, Lee JH, Choi JY, Han KS. Comparison of whole blood collection and double-unit erythrocytapheresis in preoperative autologous blood donation. Transfus Apher Sci. 2013 Dec;49(3):542-547.
5. Kim H, Kim JE, Hwang SM, Lee HR, Han KS, Kim HK. Synergistic thrombotic risk of antibodies against phosphatidylserine and prothrombin and β -2-glycoprotein I. Clin Appl Thromb Hemost. 2014 May;20(4):442-447.
6. Kim H, Jo HJ, Choi SR, Kim JN, Kim S, Um TH. A survey on the awareness and usage of the national transfusion guideline in Korea. Korean J Blood Transfus. 2016 Aug;27(2):155-163.
7. Nam M, Kim MJ, Choi SH, Hong YJ, Kim H, Hwang SM, Park JS, Choi CW, Park KU, Song J, Han KS. Utilization analysis of neonatal red blood cell aliquots and development of electronic issuing system. Korean J Blood Transfus. 2016 Aug;27(2):122-129.
8. Hong YJ, Kim H, Song EY, Cho D, Park KU, Han KS. Development of real-time PCR and melting curve analysis for the rapid detection of DEL with RHD (c.1222T>C) or RHD (c.1227G>A). Clin Lab. 2016 Oct 1;62(10):1995-2000.

9. Chang HE, Hong YJ, Kim H, Hwang SM, Park JS, Lee SW, Song EY, Park KU, Song J, Han KS. Genotyping of 19 red cell antigens, including RHD, using liquid bead arrays. Clin Chim Acta. 2016 Nov 1;462:111-117.
10. Kim H, Cho D, Jo HJ, Choi SR, Kim JN, Um TH. A survey of physicians' opinion on informed consent for transfusion after the introduction of the national blood transfusion guideline. Korean J Blood Transfus. 2016 Dec;27(3):257-264.
11. Lee N, In JW, Kim H, Roh EY, Shin S, Park KU, Yang J, Song EY. Comparison of flow-cytometric antibody secreting cell assay and Mabtech Immunoglobulin ELISpot assay. Transplant Proc. 2017;49(5):963-966.
12. Kim TY, Hong YJ, Kim H, Park KU, Han KS. A case of anti-JMH antibody with high-titer, low-avidity characteristics: the first case in Korea. Korean J Blood Transfus. 2017 Aug;28(2):155-162.
13. Shin DW, Kim H, Kim B, Kim TY, Hong YJ, Kim TS, Park JS, Song EY, Park KU, Han KS. Strategies to prevent transfusion-transmitted infection in blood centers. Korean J Blood Transfus. 2017 Dec;28(3):211-224.
14. Kim H, Hyun J, Han KS. Establishment of the Korean haemovigilance system. ISBT Sci Ser. 2018;13:312-316
15. Song DY, Shin DW, Yoon MS, Hong YJ, Kim H, Han KS. Clinical significance of anti-G alloantibody and serologic interpretation strategies for patients with an anti-C+D pattern: first report of anti-G alloantibody identification in Korea. Ann Lab Med. 2018 May;38(3):280-282.
16. Shin DW, Kim H, Chung Y, Kim JN, Hong YJ, Park KU, Han KS. Establishment and utilization of a transfusion recipient registry in Korea: estimating the frequencies of specific antigen-negative blood units. Am J Clin Pathol. 2018 Jul 3;150(2):154-161. doi: 10.1093/ajcp/aqy044. PMID: 29893771
17. Kim TY, Shin DW, Son BH, Kang JS, Chung Y, Ko DH, Hong YJ, Kim H, Park KU, Han KS. Minimum specimen volume analysis of ABO/RhD typing and unexpected antibody screening using an automated immunohematology system DAYmate S. Korean J Blood Transfus. 2018 Aug;29(2):159-170.
18. Kim MS, Kim H, Ko DH, Hwang SH, Oh HB. RhD immunoprophylaxis in plasma transfusion. Korean J Blood Transfus. 2018 Aug;29(2):194-197.
19. Kim TY, Shin DW, Hong YJ, Kim H, Park KU, Han KS. Two cases of hypersensitivity reactions caused by human serum albumin during therapeutic plasma exchange. Lab Med

Online. 2019 Apr;9(2):107-112.

20. Kim H, Ko DH. Reconsidering RhD positive blood transfusion for Asia type DEL patients. *Transfus Apher Sci*. 2019;58(4):422.
21. Kim MS, Kim JS, Park H, Chung Y, Kim H, Ko DH, Kim SH, Hwang SH, Oh HB. The first case of para-Bombay blood type encountered in a Korean tertiary hospital. *J Korean Med Sci*. 2019 Oct 14;34(39):e258.
22. Yang D, Kim B, Song DY, Kim TY, Kim MJ, Cho SI, Kim H, Seong MW, Park SS. Pitfalls of ABO genotyping based on targeted single nucleotide variant analysis due to a nondeletional O allele lacking c.261delG: first report of ABO*O.09.01 in Korea. *Ann Lab Med*. 2019 Nov;39(6):599-601.
23. Kim MS, Kim JS, Park H, Chung Y, Kim H, Ko DH, Hwang SH, Won HS, Oh HB. Fatal hemolytic disease of the fetus and newborn caused by anti-Jra antibody: A case report and literature review. *Transfus Apher Sci*. 2020 Feb;59(1):102605.
24. Kim TY, Hong YJ, Kim MJ, Kim H, Kim TS, Park JS, Park KU, Han KS. Recommendations regarding practical DEL typing strategies for serologically D-negative Asian donors. *Transfus Med Hemother*. 2020 Feb;47(1):88-93.
25. Kim H, Choe W, Shin S, Kim YH, Han DJ, Park SK, Kwon SW, Ko DH. ABO-incompatible kidney transplantation can be successfully conducted by monitoring IgM isoagglutinin titers during desensitization. *Transfusion*. 2020 Mar;60(3):598-606.
26. Yoon CH, Lee HJ, Park HY, Kim H, Kim MK, Jeoung JW, Oh JY. Effects of topical autologous serum on the ocular surface in patients with toxic corneal epitheliopathy induced by anti-glaucoma drugs. *Int Ophthalmol*. 2020 Mar;40(3):547-552.
27. Yang JJ, Chung Y, Kim H, Ko DH, Hwang SH, Oh HB. Retrospection of anti-blood group antibody proficiency testing data using the geometric mean and standard deviation. *Am J Clin Pathol*. 2020 Mar 9;153(4):530-536.
28. Kim H, Ko DH. Transfusion in ABO-Incompatible Solid Organ Transplantation. *Korean J Blood Transfus*. 2020 Apr;31(1):70-72.
29. Kim MS, Chung Y, Kim H, Ko DH, Jung E, Lee BS, Hwang SH, Oh HB, Kim EA, Kim KS. Neonatal exchange transfusion: experience in Korea. *Transfus Apher Sci*. 2020 Jan 9:102730.
30. Chun S, Kim H, Yun JW, Yu H, Seo JY, Cho D. RHD genotyping is recommended for all patients with serological weak-D phenotypes in Asian populations - Cases with coexistence of weak-D and Asia type DEL alleles results in complete expression of D-antigen. *Transfus*

Apher Sci. 2020;59(4):102807.

31. Han H, Shin DY, Kim D, Kim H, Lee C, Koh Y, Hong J, Yoon SS. Induction of leukemic stem cell differentiation by aryl hydrocarbon receptor agonist and synergy with gilteritinib in FLT3-ITD + acute myeloid leukemia. *Leuk Lymphoma*. 2020;61(8):1932-1942.
32. Yang JJ, Seo SW, Kim JS, Chung Y, Kim H, Ko DH, Hwang SH, Oh HB. A comparison of the automated blood bank system IH-500 and manual tube method for anti-blood group antibody titration: a quantitative approach. *Transfus Apher Sci*. 2020;59(4):102806.
33. Yang JJ, Kim JS, Lim YA, Kim H, Ko DH. Annual Report of the Korean Association of External Quality Assessment Service on Transfusion Medicine (2019). *Lab Med Qual Assur* 2020;42:112-120.
34. Kim TY, Yoon MS, Hustinx H, Sim J, Wan HI, Kim H. Assessing and mitigating the interference of ALX148, a novel CD47 blocking agent, in pretransfusion compatibility testing. *Transfusion*. 2020 Oct;60(10):2399-2407.
35. Hwang SM, Ahn H, Jeon S, Park J, Chang Y, Kim H. Monocyte subsets to differentiate chronic myelomonocytic leukemia from reactive monocytosis. *J Clin Lab Anal*. 2021 Jan;35(1):e23576.
36. Yang JJ, Kim JS, Chung Y, Kim H, Ko DH, Hwang SH, Oh HB. Exploratory Investigation for Improvement of the External Quality Assessment Scheme for Transfusion Medicine. *Lab Med Qual Assur* 2021;43:19-24.
37. Chung Y, Kim JS, Yang JJ, Kim H, Hwang SH, Oh HB, Ko DH. A Pilot Project for Expansion of the External Quality Assessment Program in Transfusion Medicine: Extended Antigen Typing. *Lab Med Qual Assur* 2021;43:87-93.
38. Choi S, Kim EY, Kim H, Cho D. Liver Failure Has Higher IgG ABO Blood Group Isoagglutinin Titer than Kidney Failure. *Korean J Blood Transfus*. 2021;32(2):112-122.
39. Yang JJ, Ryu KS, Kim JS, Chung Y, Kim H, Hwang SH, Oh HB, Ko DH. Evaluation of safety of using incompatible plasma for therapeutic plasma exchange during shortage of AB plasma. *J Clin Apher*. 2021 Aug;36(4):628-633.
40. Heo WY, Chung YN, Kim TY, Yu H, Bae JC, Kim H, Cho D. Analysis of ABO grouping discrepancies among patients from a tertiary hospital in Korea. *Transfus Apher Sci*. 2021 Aug 5:103230.
41. Park JH, Kim HW, Chung HJ, Kim H. A nationwide population-based study on therapeutic plasma exchange for 10 years in Korea using Health Insurance Review and Assessment database. *J Clin Apher*. 2021 Aug 31. doi: 10.1002/jca.21935. *J Clin Apher*. 2021

Dec;36(6):831-840.

42. Jung K, Lee J, Kang JS, Park JH, Chung Y, Ko DH, Kim H, Han KS. Safety of Red Blood Cell Transfusion by the Emergency Blood Transfusion Protocol. Korean J Blood Transfus 2021 Dec;32(3):163-73.
43. Youk H, Chung Y, Kim H, Hwang S, Oh H, Ko D. Current Status of Management for Transfusion Management Division at Ten Medical Institutions in Korea. Korean J Blood Transfus. 2021;32(3):174-180.
44. Youk HJ, Kim JS, Yang JJ, Kim H, Ko DH. Annual Report of the Korean Association of External Quality Assessment Service on Transfusion Medicine (2020). Lab Med Qual Assur 2021;43:167-175.
45. Youk HJ, Kim JS, Chung Y, Hwang SH, Oh HB, Kim H, Ko DH. Current Status of External Quality Control for the Classification of Complex Antibodies on the Unexpected Antibody Identification Test. Lab Med Qual Assur 2021; 43(4): 217-219.
46. Chung Y, Ko DH, Lim J, Kim KH, Kim H. Choice of ABO Group for Blood Component Transfusion in ABO-Incompatible Solid Organ Transplantation: A Questionnaire Survey in Korea and Guideline Proposal. Ann Lab Med. 2022 Jan 1;42(1):105-109.
47. Chung Y, Kim H, Ko DH. Need for Detailed Indications of Therapeutic Apheresis in ABO-Incompatible Renal Transplantation in a Recent Guideline. Clin Lab. 2022 Feb 1;68(2).
48. Kim HJ, Kim JS, Yang JJ, Chung Y, Kim H, Shin S, Kim YH, Hwang SH, Oh HB, Han DJ, Kwon H, Ko DH. Outcome of ABO-Incompatible Kidney Transplantation According to ABO Type of Transfused Plasma: Comparative Analysis Between "Universal" AB and Donor-Type Plasma. Lab Med. 2022 Feb 12;lmab122.
49. Youk HJ, Kim JS, Yang JJ, Kim H, Ko DH. Annual Report of the Korean External Quality Assessment Service on Transfusion Medicine (2021). Lab Med Qual Assur 2022; 44(1): 10-20.
50. Yang JJ, Youk HJ, Chung Y, Kim H, Hwang SH, Oh HB, Ko DH. Application of Geometric Mean Criteria for Anti-Blood Group Antibody Proficiency Testing in the Korean External Quality Assurance Program. Lab Med Qual Assur 2022; 44(1): 48-54
51. Youk HJ, Kim JS, Kim H, Hwang SH, Oh HB, Chung Y, Ko DH. Detection of anti-B antibodies in a patient with A1B blood group: A case report and literature review. Transfus Apher Sci. 2022 Apr 20:103450.
52. Kim HJ, Yang JJ, Kim H, Hwang SH, Oh HB, Chung Y, Ko DH. Is Cryoprecipitate-Reduced Plasma an Efficacious Replacement Fluid for Therapeutic Plasma Exchange for

- Patients with Thrombotic Microangiopathy? A Single-Center Retrospective Experience. *Lab Med*. 2022 May 5;53(3):266-272.
53. Chung Y, Kim JS, Youk HJ, Hwang SH, Oh HB, Kim H, , Ko DH. A Pilot Project for the Expansion of the External Quality Assessment Program in Transfusion Medicine: Anti-D Titer Test. *Lab Med Qual Assur* 2022; 44(2): 99-104.
 54. Youk HJ, Ryu HY, Seo SW, Kim JS, Chung Y, Kim H, Hwang SH, Oh HB, Min WK, Ko DH. A New Trial to Measure ABO Antibodies Using Complement-Dependent Cytotoxicity. *Medicina (Kaunas)*. 2022 Jun 20;58(6):830.
 55. Choi J, Kim H, Jun J, Ryu J, Lee HY. Recurrent Pancreatitis in a Pregnant Woman with Severe Hypertriglyceridemia Successfully Managed by Multiple Plasmapheresis. *J Atheroscler Thromb*. 2022 Jul 1;29(7):1108-1116
 56. Park B, Kim JS, Youk HJ, Chung Y, Kim H, Hwang SH, Oh HB, Ko DH. Clinical Significance of Hemagglutination Grades Determined Using the IH-1000 Automated Blood Typing Instrument: Real-world Data. *Ann Lab Med*. 2022 Nov 1;42(6):700-702.
 57. Chung Y, Kim H, Ko DH. Proposal of the Need for New Korean Guidelines on the Use of Therapeutic Apheresis in Clinical Practice. *Ann Lab Med*. 2022 Nov 1;42(6):703-707.
 58. Chung Y, Kim JS, Youk HJ, Kim H, Hwang SH, Oh HB, Ko DH. Relative immunogenicity of blood group antigens: First Report in a Korean Population. 10.1016/j.transci.2022.103585. *Clin. Lab*. 2023;69:218-219.
 59. Yu J, Kim JS, Yang JJ, Chung Y, Kim H, Hwang S, Oh H, Youk H, Ko D. Transfusion of the Least-incompatible Blood with Intravenous Immunoglobulin and Steroid to a Patient with Anti-Fya. *Lab Med Online* 2022;12:205-208.
 60. Park S, Park JH, Chung Y, Ko DH, Kim H. Therapeutic Leukapheresis for Plasma Cell Leukemia Presenting with Hyperleukocytosis: The First Case in Korea. *Lab Med Online* 2023;13:36-41.
 61. Chung Y, Kim HJ, Kim H, Hwang SH, Oh HB, Ko DH. Investigation of variables affecting the immunogenicity of blood group antigens using a calculation formula. *Sci Rep*. 2023 May 30;13(1):8748.
 62. Bayat B, Lowack J, Audrain M, Croisille L, Curtis B, Dangerfield R, Esmacili B, Grabowski C, Keller M, Kim H, Kroll H, Kvanka MM, Kwok J, Moritz E, Nathalang O, Nelson D, Nielsen KR, Pahn G, Poles A, Porcelijn L, Sachs UJ, Schönbacher M, Körmöcz GF, Kupatawintu P, Takahashi D, Uhrynowska M, Flesch B, Fung YL. World human neutrophil antigens investigation survey. *Vox Sang*. 2023 Sep;118(9):763-774.

63. Yeom GE, Lim SH, Kim JH, Ahn YH, Kim H, Ha J, Kim HY, Kang HG. Gastrointestinal involvement of passenger lymphocyte syndrome followed by minor ABO-incompatible renal transplantation: A case report. *Pediatr Transplant*. 2023 Jun 9:e14556.
64. Kim HJ, Chung Y, Kim H, Hwang SH, Oh HB, , Ko DH. Analysis of Unacceptable Results in Proficiency Testing for General Transfusion Medicine Tests. *Lab Med Qual Assur* 2023; 45(3): 115-119.
65. Kim HJ, Seo SW, Chung Y, Kim H, Hwang SH, Oh HB, Ko DH. Clinical significances and distribution of unexpected antibodies found in infants. *Transfus Apher Sci*. 2023 Oct;62(5):103765.
66. Byun JM, Park W, Shin DY, Koh Y, Kim I, Yoon SS, Park JH, Kim H, Hong J. A pilot randomized study for optimal red cell transfusion in acute myeloid leukemia patients with intensive chemotherapy. *Blood Transfus*. 2023 Nov 22;21(6):479-487.
67. Kim HJ, Chung Y, Kim H, Ko DH. Clinical significance of IgM and IgG isoagglutinins in ABO-incompatible solid organ transplantation: Insights from materno-fetal immunoglobulin status. *Transfus Apher Sci*. 2023 Dec;62(6):103786.
68. Yoon E, Kim TY, Kim H, Cho D. Evorpacept-Induced Interference and Application of a Novel Mitigation Agent, Evo-NR, in Pretransfusion Testing. *Transfus Med Hemother* 1–8. 10.1159/000534273.
69. Kim H, Lee K, Seo SH, Hong YJ, Hwang SM, Park JS, Park KU, Song J. In Vitro Evaluation of DINCH-Plasticized Blood Bags for Red Blood Cell Storage with CPDA-1 Anticoagulant. *Transfus Med Hemother* 2024; <https://doi.org/10.1159/000535625>