

DAFTAR PUSTAKA

- Abbas, A.K., Lichtman, A.H., Pillai, S., 2020. Introduction to the Immune System. Nomenclature, General Properties and Component. In *Basic Immunology Function and Disorders of the Immune System* 6th Edition. Elsevier: China. p: 9-14.
- Alere, 2014. Pima CD4 Catridge Guide.
- Arinsburg, S.A., 2019a. Antibody Identification. Dalam *Transfusion Medicine and Hemostasis Clinical and Laboratory Aspect* Third Ed. Elsevier. p: 117–125. Available at <http://doi:10.1016/b978-0-12-813726-0.00022-2>
- Arinsburg, S.A., 2019b. Pretransfusion Testing. *Transfusion Medicine and Hemostasis Clinical and Laboratory Aspect* Third Ed. Elsevier. p: 107-116.
- Arora, K., Kelley, J., Sui, D., *et al.* 2017. Cancer type predicts alloimmunization following Rh D incompatible RBC transfusions. *Transfusion* ;57(4). p:952-958.
- Baia, F., Correia, F., Alves, B., *et al.* 2016. Phenotyping Rh/Kell and risk of alloimmunization in haematological patients. *Transfusion Medicine* (26). p:34-8.
- Bao, W., Zhong, H., Li, X., Lee, M. T., Schwartz, J., Sheth, S., & Yazdanbakhsh, K. 2011. Immune regulation in chronically transfused allo-antibody responder and nonresponder patients with sickle cell disease and β -thalassemia major. *American Journal of Hematology*, 86(12), p: 1001–06. <http://doi:10.1002/ajh.22167>
- Bazi, A., Shahramian, I., Yaghoobi, H., Naderi, M., and Azizi, H. 2017. The Role of Immune System in Thalassemia Major: A Narrative Review. *Journal of Pediatrics Review*.
- Bhuva, D.K., Vachhani, J.H., 2017. Red cell alloimmunization in repeatedly transfused patients. *Asian Journal of Transfusion Science* (11). p:115-20. Available at <https://www.ajts.org/text.asp?2017/11/2/115/214347>
- Blaney, K.D., Howard, P.R., 2013. Compatibility Testing. *Basic and Applied Concepts of Blood Banking and Transfusion Practices* Third Edition. United States: Elsevier Mosby. p:188-201.
- Bolton-Maggs, P.H.B., and Cohen, H., 2013. Serious Hazards of Transfusion (SHOT) Haemovigilance and Progress is Improving Transfusion Safety. *British Journal of Haematology* (163). John Wiley and Sons Ltd. p: 303–314.
- Brand, A., 2016. Immunological complications of blood transfusions. *La Presse Medicale*. Available at <https://doi.org/10.1016/j.lpm.2016.06.024>
- Budhiaty, T., Triyono, T., 2013. Rasio Prevalensi Aloantibodi Pada Pasien Transfusi Berulang Dibanding Tidak Berulang. diakses dari Internet http://etd.repository.ugm.ac.id/home/detail_pencarian/58901 tanggal 6 Agustus 2021.
- Carrucio, L. and Lerret, N.M., 2019. Fundamentals of Immunology. In *Modern Blood Banking and Transfusion Practices* 7th Ed. Philadelphia: F.A Davis Company. p: 45-76.

- Campbell–Lee, S.A., 2020. Alloimmunization in Chronically Transfused Patients and Those with Malignancies. *Immunologic Concepts in Transfusion Medicine*, p:183–196.
Available at <http://doi.10.1016/b978-0-323-67509-3.00011-1>.
- Cooling, L., 2014. ABO, H, and Lewis Blood Groups and Structurally Related Antigens. In: Fung, M., Grossman, B.J., Hillyer, C.D., Westhoff, C.M., eds. *Technical Manual*. 18th edition. Bethesda, MD: AABB. p: 291-315.
- Cushing, M.M., and DeSimone, R.A. 2019. Platelet Product. In Editors: Beth H. Shaz, Christopher D. Hillyer, Morayma Reyes Gil, *Transfusion Medicine and Hemostasis*, Third Edition, Elsevier, p: 213-18.
- Dahlan, M.S. 2016. Besar Sampel dalam Penelitian Kedokteran dan Kesehatan Seri 2, Edisi 4, Jakarta: Sagung Seto, p: 1-338.
- Daniels, G., 2013a. ABO, H, and Lewis Systems. In Human Blood Groups Third ed. Wiley-Blackwell: UK. p: 11–95.
- Daniels, G. 2013b. MNS Blood Group System. In Human Blood Groups Third ed. Wiley-Blackwell: UK. p: 96–161
- Daniels, G. 2013c. Gerbich Blood Group System. In Human Blood Groups Third ed. Wiley-Blackwell: UK. p: 410–426
- Das, S.S., Biswas, R.N., Safi, M., Zaman, R.U. 2021. Alloimmunization to erythrocyte antigens in patients receiving multiple blood transfusions: Clinico- immunohematological and demographic risk factors and impact of extended red cell phenotyping. *Global Journal of Transfusion Medicine* 6. p:171-7
- Dinardo, C.L., Ito, G.M., Sampaio, L.R., Mendrone, J.A. 2013. Study of Possible Clinical and Laboratory Predictors of Alloimmunization Against Red Blood Cell Antigens in Cancer Patients. *Revista Brasileira Hematologia e Hemoterapia*; 35(6). p:414-6.
- Elemery, M., Seghatchian, J., Stakiw, J., Bosch, M., Sabry, W., and Goubran, H. 2017. Transfusion challenges in hematology oncology and hematopoietic stem cell transplant – Literature review and local experience. *Transfusion and Apheresis Science*, 56(3), p: 317–21. Available at <http://dx.doi.org/doi:10.1016/j.transci.2017.05.022>
- Elkhalifa, A.M., Abbas, A.M., Shalabi, M.G., Yassin, N., Ahmed, D.Z., Ahmed H.A.M, *et al.* 2021. Red blood cell alloimmunization among multiple blood transfusions Sudanese patients. *Blood Disorders and Transfusion* (12). p:475.
- Elrahman, S.A., and Mirghani, L.B., 2017. Alloimmunization in Sudanese Leukemic Patients with Multiple Blood Transfusions. *Journal of Dental and Medical Sciences* 16 (3). p: 61-65.
- Ellingson, K.D., Sapiano, M.R.P., Haass, K.A., *et al.* 2017. Continued Decline in Blood Collection and Transfusion in the United States-2015. *Transfusion*; 57 (Suppl 2). p: 1588-98.
- Fasano, R.M., Booth, G.S., Miles, M., Du, L., Koyama, T., Meier, E.R., *et al.* 2015. Red blood cell alloimmunization is influenced by recipient inflammatory state at time of transfusion in patients with sickle cell disease. *British Journal of Haematology* 168(2). p:291–300

- Fridawati, V., Triyono, T., Sukorini, U., 2016. The Risk Factor of Alloantibody Formation in Thalassemia Patients Receiving Multiple Transfusion. *Indonesian Journal of Clinical Pathology and Medical Laboratory* 22(3), p: 241-245.
- Gehrie, E.A., and Tormey, C.A., 2014. The Influence of Clinical and Biological Factors on Transfusion-Associated Non-ABO Antigen Alloimmunization: Responders, Hyper-Responders, and Non-Responders. *Transfusion Medicine and Hemotherapy*, 41(6), 4-4.
- Gerritsma, J.J., Oomen, I., Meinderts, S., Schoot, CE., Biemond, BJ., Bom, G., Fijnvandraat, K. 2021. Back to base pairs: What is the genetic risk for red blood cell alloimmunization? *Blood Reviews* 48. Available at <https://doi.org/10.1016/j.blre.2020.100794>.
- Guelsin, G.A., Rodrigues, C., Visentainer, J.E., *et al.*, 2015. Molecular Matching for Rh and K Reduces Red Blood Cell Alloimmunisation in Patients with Myelodysplastic Syndrome. *Blood Transfusion* 13(1). p:53-8.
- Han, Y., Liu, D., and Li, L. 2020. PD-1/PD-L1 pathway: current researches in cancer. *American journal of cancer research*, 10(3), p: 727-742.
- Handa, A., Kukar, N., Maharishi, R. N., Syal, N., and Arora, H. 2020. Analysis of red cell alloimmunization in multi transfused patients at a Tertiary care teaching hospital. *Journal of family medicine and primary care*, 9(6). p: 2907-2911. https://doi.org/10.4103/jfmprc.jfmprc_351_20
- Harmening, D.M., Forneris, G., Tubby, BJ., 2019. The ABO Blood Group System. Blood Groups and Serologic Testing. *Modern Blood Banking and Transfusion Practices* 7th Edition. Philadelphia: F.A Davis company. p:119-148.
- Hendrickson, J.E., and Tormey, C.A., 2016. Red Blood Cell Antibodies in Hematology/ Oncology Patients. Interpretation of Immunohematologic Test and Clinical Significance of Detected Antibodies. *Hematology/ Oncology Clinics of North America* 30. Elsevier. p: 635-51. Available at <https://doi.org/10.1016/j.hoc.2016.01.006>
- Hodgkins, S.R., 2020. Erythrocyte Metabolism and Membrane Structure and Function. In Keohane EM, Otto CN, Walenga JM editors. *Rodak's Hematology Clinical Principle and Applications* 6th ed. Elsevier: Canada. p: 78-90.
- Howard, P.R., 2017. Overview of the Major Blood Groups. In *Basic and Applied Concepts of Blood Banking and Transfusion Practices* 4th Ed, Elsevier: Missouri, p: 185-370.
- Ido, A.A.S., Oliveira, M.C., 2020. Main Erythrocyte Antigens Involved in the Alloimmunization Process. *Open Science Journal* 5(2).
- International Society of Blood Transfusion, 2021, Blood Group System. In Red Cell Immunogenetics and Blood Group Terminology. International Society of Blood Transfusion (internet). Diakses dari <https://www.isbtweb.org/working-parties/red-cell-immunogenetics-and-blood-group-terminology>. tanggal 1 September 2021.
- Johnson, S.T., Wiler, M. 2012. The Rh Blood Group System. Blood Groups and Serologic Testing. *Modern Blood Banking and Transfusion Practices* 6th Edition. Philadelphia: F.A Davis Company. p:148-69.

- Kemenkes, 2015, Peraturan Menteri Kesehatan Republik Indonesia Nomor 91 Tahun 2015 Tentang Standar Pelayanan Transfusi Darah. Jakarta.
- Kormoczi, G.F., Mayr, W.R., 2014. Responder Individuality in Red Blood Cell Alloimmunization. *Transfusion Medicine and Hemotherapy* 41. p:446–451
- Leisch, M., Weiss, L., Lindlbauer, N., Jungbauer, C., Egle, A., Rohde, E., Greil, R., Grabmer, C., Pleyer, L., 2017. Red Blood Cell Alloimmunization in 184 Patients with Myeloid Neoplasms Treated with Azacitidine- A Retrospective Single Center Experience. *Leukemia Research* 59, p: 12-19.
- Leger, R.M., 2019. Blood Group Terminology and The Other Blood Groups. In Harmening DM editors. *Modern Blood Banking & Transfusion Practise* 7th Ed. Philadelphia: F.A Davis Company. p: 172- 215.
- Lin, Y., Saskin, A., Wells, R.A., Lenis, M., Mamedov, A., Callum, J., Buckstein, R. 2017. Prophylactic RhCE and Kell antigen matching: impact on alloimmunization in transfusion-dependent patients with myelodysplastic syndromes. *Vox Sanguinis* 112. p:79–86.
- Linder, G.E., Chou, S.T., 2021. Red cell transfusion and alloimmunization in sickle cell disease. *Haematologica* 2021 Volume 106(7). p:1805-1815
- Liu, C., Grossman, B.J. 2015. Red blood cell transfusion for hematologic disorders. *Hematology American Society Hematology Education Programme*. p: 454-61. Available at <https://doi.org/10.1182/asheducation-2015.1.454>
- Lu, W., Mehraj, V., Vyboh, K., Cao, W., Li, T., Routy, J.P. 2015. CD4:CD8 ratio as a frontier marker for clinical outcome, immune dysfunction and viral reservoir size in virologically suppressed HIV-positive patients. *Journal International AIDS Society*; 18(1). p: 20052.
- Mangwana, S., Kacker, A., Simon, N., 2019. Red Cell Alloimmunization in Multi-transfused Oncology Patients: Risks and Management, *Global Journal of Transfusion Medicine*, Vol. 4, p: 74-78.
Available at <https://www.gjtmonline.com/text.asp?2019/4/1/74/256736>
- Marik, P.E., 2015. Transfusion of Blood and Blood Products. In: *Evidence-Based Critical Care*. Springer, Cham. p:585-619.
- McCullough, J., 2012. Complications of Transfusion. In: *Transfusion Medicine* 3rd Edition. Blackwell Publishing. p:378-413.
- Molina-Aguilar, R., Gomez-Ruiz, S., Vela-Ojeda, J., Montiel-Cervantes, L.A., Reyes-Maldonado, E. 2019. Pathophysiology of Alloimmunization. *Transfusion Medicine and Hemotherapy* 47(2). Karger. p:152-59.
- Mulyantari, N.K., dan Yasa, I.W.P.S., 2016. *Laboratorium Pratransfusi Update*. Denpasar: Udayana University Press. p:1-3.
- Nickel, R.S., Horan, J.T., Fasano, R.M., Meyer, E., Josephson, C.D., Winkler, A.M., *et al.*, 2015. Immunophenotypic Parameters and RBC Alloimmunization in Children with Sickle Cell Disease on Chronic Transfusion. *American Journal of Hematology* Vol. 90. No. 12. Wiley. p: 1135-41.
- Panch, S.R., Montemayor-Garcia, C., and Klein, H.G., 2019. Hemolytic Transfusion Reactions. *New England Journal of Medicine*, 381(2), p:150–162. Available at <https://www.nejm.org/doi/full/10.1056/NEJMra1802338>

- Pandey, H., Das, S. S., and Chaudhary, R., 2014, Red Cell Alloimmunization in Transfused Patients: A Silent Epidemic Revisited, *Asian Journal of Transfusion Science* 8(2), pp: 75–77. Available at <http://doi.10.4103/0973-6247.13743310.4103/0973-6247.137433>
- Patel, S.R., Smith, N.H., Kapp, L., Zimring, J.C. 2012. Mechanisms of alloimmunization and subsequent bone marrow transplantation rejection induced by platelet transfusion in a murine model. *American Journal of Transplantation* 12(5). p: 1102–12.
- Pereira Bueno, M.L., Mitestainer, M.B., Da Silva, J.A.R., Benites, B.D., Roversi, F.M., 2021. Red-cell alloimmunization profile in multi transfused patients: Findings and insights of a blood transfusion service, *Transfusion Clinique et Biologique*, Available at <https://doi.org/10.1016/j.tracli.2021.04.006>
- Pessoni, L.L., Ferreira, M.A., Rodrigues da Silva, J.C., Correia de Alcantara, K. 2018, Red Blood Cell Alloimmunization among Hospitalized Patients: Transfusion Reactions and Low Alloantibody Identification Rate, *Hematology, Transfusion and Cell Therapy*. Available at <https://doi.org/10.1016/j.htct.2018.04.001>
- Philip J, Biswas, A.K., Hiregoudar, S., Kushwaha, N. 2014. Red blood cell alloimmunization in multitransfused patients in a tertiary care center in Western India. *Laboratory Medicine* 45. p:324–30.
- Pimpaldara, R.P., Patel, A.C., Patel, J., Patel, S., Pandya, A.N., Wadhwani, S. 2015. A study of irregular antibodies in 200 multi-transfused patients. *Journal of Evolution Medical and Dental Science* 73, p:12659–67.
- Poland, G.A., Ovsyannikova, I.G., Kennedy, R.B., Lambert, N.D., Kirkland, J.L. 2014. A systems biology approach to the effect of aging, immunosenescence and vaccine response. *Current Opinion in Immunology* 29. p:62-68.
- Pourghesari B, Karimi L, Beshkar P. 2016. Alteration of T Cell Subtypes in Beta-Thalassaemia Major: Impact of Ferritin Level. *Journal of Clinical and Diagnostic Research* 10(2). p: 14–8. Available at <http://doi.10.7860/JCDR/2016/16094.7272>.
- Prigent, A., Maillard, N., Absi, L., Aloui, C., Cognasse, F., *et al.*, 2014. From Donor to Recipient: Current Questions Relating to Humoral Alloimmunization. *Antibodies* (3), p: 130-152.
- Rajeev T, K., Jain, A., Marwaha, N., Prakash, G., and Sharma, R. R. 2021. Red cell alloimmunization in haemato-oncology patients transfused with packed red blood cells extended phenotype matched for Rh and Kell antigens versus the standard crossmatched units. *ISBT Science Series*. doi:10.1111/voxs.12642
- Rodrigues, C., Sell, A. M., Guelsin, G. A. S., Huga, T. T., Pagliarini e Silva, S., Macedo, L. C., *et al.*, 2017. HLA Polymorphism and Risk of Red Blood Cell Alloimmunization in Polytransfused Patients with Sickle Cell Anaemia. *Tansfusion Medicine*. British Blood Transfusion Society. Available at <https://doi.org/10.1111/tme.12459>
- Rofinda, Z., Darwin, E., Nasrul, E., Wahid, I. 2022. Erythrocyte Antibody Due to Alloimmunization in Repeated Transfusion: A Meta-Analysis. *Open Access Macedonian Journal of Medical Sciences*. 10. p: 257-262.

- Rowley, M., Cantwel, C., Milkins, C., 2017. Laboratory Aspects of Blood Transfusion. In *Dacie and Lewis Practical Haematology* 12th Ed. China: Elsevier p: 470-96.
- Ryder, A.B., Zimring, J.C., Hendrickson, J.E., 2014. Factors Influencing RBC Alloimmunization: Lessons Learned from Murine Models. *Transfusion Medicine Hemotherapy* 41(6). p:406-419.
- Sanz, C., Nomdedeu, M., Belkaid, M., *et al.* 2013. Red Blood Cell Alloimmunization in Transfused Patients with Myelodysplastic Syndrome or Chronic Myelomonocytic Leukemia. *Transfusion*;53. p:710-15.
- Schonewille, H., Honohan, Á., van der Watering, L. M. G., Hudig, F., te Boekhorst, P. A., Koopman-van Gemert, A. W. M. M., and Brand, A. 2015. Incidence of alloantibody formation after ABO-D or extended matched red blood cell transfusions: a randomized trial (MATCH study). *Transfusion*, 56(2). p:311–320. Available at <http://doi.org/10.1111/trf.13347>
- Shebl, S.S., Maaly, M.M., Said, Y. 2018. Study of Serum Level of IL-10, CD4, CD8 and Acute Phase Reactants in Thalassemic Children with Effect of Splenectomy. *The Medical Journal of Cairo University*, (86). p: 483-489. Available at <http://doi.10.21608/mjcu.2018.55185>
- Singhal, D., Kutyna, M. M., Chhetri, R., *et al.*, 2017. Red Cell Alloimmunization is Associated with Development of Autoantibodies and Increased Red Cell Transfusion Requirements in Myelodysplastic Syndrome. *Haematologica*; 102(12). p:2021-29.
- Sippert, E.A, Visentainer, J.E.L, Alves, H.V., *et al.* 2017. Red blood cell alloimmunization in patients with sickle cell disease: correlation with HLA and cytokine gene polymorphisms. *Transfusion* (57). p:379-389.
- Smith, N.H., Hod, E.A., Spitalnik, S.L., Zimring, J.C., Hendrickson, J.E. 2012. Transfusion in the absence of inflammation induces antigen-specific tolerance to murine RBCs. *Blood* 119(6). p:1566–9.27.
- Sood, R., Makroo, R. N., Riana, V., Rosamma, N. L., 2013, Detection of Alloimmunization to Ensure Safer Transfusion Practice, *Asian Journal of Transfusion Science* 7(2), p: 135-139. Available at <https://doi.org/10.4103/0973-6247.115577>
- Stendahl, K., Tormey, C. A., and Baine, I. L. 2020. Methods of RBC Alloimmunization to ABO and Non-ABO Antigens, and Test Methodologies. *Immunologic Concepts in Transfusion Medicine*, 15–33. Available at <http://doi.10.1016/b978-0-323-67509-3.000>
- Stevens, C.D. 2017. Adaptive Immunity. In *Clinical Immunology and Serology A Laboratory Perspective* 4th Ed. Philadelphia: F.A Davis Company. p:45-60.
- Stoe, M. 2011. Pretransfusion Testing. *Immunohematology Principles and Practice* Third Edition. Philadelphia: Lippincott Williams & Wilkins. p. 107- 117.
- Strauss, D., 2019. Component Preparation and Manufacturing, In Editors: Beth H. Shaz, Christopher D. Hillyer, Morayma Reyes Gil, *Transfusion Medicine and Hemostasis*, Third Edition, Elsevier, p: 53-58.
- Tangvarasittichai, S., 2017. Impact of Alloimmunization on Transfusion-dependent Patients. *Annals of Advance Chemistry* (1). p: 070-082.

- Turgeon, M.L., 2018. Cells and Cellular Activities of the Immune System: Lymphocytes and Plasma Cells. In *Immunology and Serology in Laboratory Medicine* 6th Ed. Missouri: Elsevier. p: 54-79.
- Tormey, C. A. and Hedrickson, J. E. 2019. Transfusion-related Red Blood Cell Alloantibodies: Induction and Consequences. *Blood* 133(17). p: 1821-30. Available at <https://doi.org/10.1182/blood-2018-08-833962>
- Trudell, K.S. 2019. Detection and Identification of Antibodies. In: Harmening, D. M. *Modern Blood Banking and Transfusion Practices* 7th Edition. United States of America: F. A. Davis Company. p: 216-240.
- Valle Neto, O.G.D., Alves, V.M., Pereira, G.A., Moraes-Souza, H., Martins, P.R.J., 2018. Clinical and epidemiological profile of alloimmunized and autoimmunized multi-transfused patients against red blood cell antigens in a blood center of Minas Gerais. *Hematology, Transfusion and Cell Therapy* 40(2). p:107-111. Available at <https://doi.org/10.1016/j.htct.2017.08.001>.
- Vingert, B., Tamagne, M., Habibi, A., Pakdaman, S., Ripa, J., Elayeb, R., Galacteros, F., Bierling, P., Ansart-Pirenne, H., Bartolucci, P., Noizat-Pirenne, F. 2015. Phenotypic differences of CD4(+) T cells in response to red blood cell immunization in transfused sickle cell disease patients. *Europe of Journal Immunology* 45(6). p:1868-79. <http://doi.10.1002/eji.201445187>.
- Verduin, E.P., Brand, A., Schonewille, H. 2012. Is female sex a risk factor for red blood cell alloimmunization after transfusion? A systematic review. *Transfusion Medicine Review* 26(4). p:342-53.
- Voskou, S., Aslan, M., Fanis, P., Phylactides, M., Kleanthous, M. 2015. Oxidative stress in β -thalassaemia and sickle cell disease. *Redox Biology* 6. p:226-39.
- Walker, P.S., and Hamilton, J.R., 2014, Identification of Antibodies to Red Cell Antigens, in Fung MK, Grossman BJ, Hillyer CD, Westhoft CM editors. *Technical Manual* 18th edition, AABB; Maryland, p: 391- 424.
- Walker, P. S., Harmening, D. M. 2019. Other Technologies and Automation. Blood Groups and Serologic Testing. In *Modern Blood Banking and Transfusion Practices* 7th Edition. Philadelphia: F.A Davis company. p. 273-285
- Wolf, L.A., 2019. Pretransfusion Testing. Blood Groups and Serologic Testing. In: Harmening, D.M. *Modern Blood Banking and Transfusion Practices* 7th Edition. Philadelphia: F.A Davis Company. p: 256-267.
- Xu, P.U., Yan, L.I., Hua, Y.U., 2014. Prevalence, Specificity and Risk of Red Blood Cell Alloantibodies Among Hospitalised Hubei Han Chinese Patients. *Blood Transfusion* 12(1). p:56-60.
- Yazdanbakhsh, K. 2016. Immunoregulatory networks in sickle cell alloimmunization. *Hematology*. American Society of Hematology Education Program (1). p: 457-61.
- Zahran, A.M., Elsayh, K.I., Saad, K., Embaby, M., Ali, A.M. 2016. Regulatory B cells (CD19(+) CD38(hi)CD24(hi)) in alloimmunized and non-alloimmunized children with β -thalassemia major. *Blood Cells and Molecular Disease* 57. p: 91-6.
- Zalpuri, S., Evers, D., Zwaginga, J.J., et al. 2014. Immunosuppressants and alloimmunization against red blood cell transfusions. *Transfusion* (8):1981-87.

- Zaman, S., Chaurasia, R., Chatterjee, K., *et al.* 2014. Prevalence and Specificity of RBC Alloantibodies in Indian Patients Attending a Tertiary Care Hospital. *Advance of Hematology*. p:1-5.
- Zimring, J. C., Stowell, S. R., Johnsen, J. M., Hendrickson, J. E., 2012. Effects of Genetic, Epigenetic, and Environmental Factors on Alloimmunization to Transfused Antigens: Current Paradigms and Future Considerations. *Transfusion Clinical Biology* (19). p: 125-131.
- Zimring, J.C., and Hudson, K.E., 2016. Cellular Immune Responses in Red Blood Cell Alloimmunization. In *Hematology American Society Hematology Education Programme*, Vol. 1. p: 452–56.

