

## DAFTAR PUSTAKA

- AABB, 2005. *Technical Manual* 15th ed. AABB, Bethesda. pp: 139-158,175-202, 361-383,483-519.
- American Red Cross. 2018. *Blood Needs and Blood Supply*. Diunduh dari: <https://www.redcrossblood.org/donate-blood/how-to-donate/how-blood-donations-help/blood-needs-blood-supply.html>, 8 November 2018.
- Apelseth, T.O., Bruserud, O., Wentzel-Larsen, T., Hervig, T. 2010. Therapeutic efficacy of platelet transfusion in patients with acute leukemia: an evaluation of methods. *Transfusion*, 50(4):766–775.
- Aubron, C., Flint, A.W.J., Ozier, Y., McQuilten, Z. 2018. Platelet storage duration and its clinical and transfusion outcomes: a systematic review. *Critical Care*; 22:185.
- Avvisati, G., Tirindelli, M.C., Annibali, O. 2003. Thrombocytopenia and hemorrhagic risk in cancer patients. *Crit Rev Oncol Hematol*, 48(Suppl):S13–S16.
- Bayer, W.L., Bodensteiner, D.C., Tilzer, L.L., Adams, M.E. 1992. Use of platelets and other transfusion products in patients with malignancy. *Seminars in Thrombosis and Hemostasis*, 18:380–391.
- Berger, G., Hartwell, D.W., Wagner, D.D. 2008. P-selectin and platelet clearance. *Blood*, 92:4446-52.
- Bikker, A., Bouman, E., Sebastian, S., Suzanne, J.A., Urbanus, R.T., Fijnheer, R., Boven, L.A., Roest, M. 2016. Functional recovery of stored platelets after transfusion. *Transfusion*, 5(6):1030–1037
- Bishop, J.F., Matthews, J.P., McGrath, K. 1991. Factors influencing 20-hour increments after platelet transfusion. *Transfusion*, 31:392-396.
- Bishop, I.F., McGrath, K., Wolf, M.M., *et al.* 1998. Clinical factors influencing the efficacy of pooled platelet transfusions. *Blood* 71:383-387.
- Blajchman, M.A. 2008. *Platelet transfusions: an historical perspective*. HematologyAm Soc Hematol Educ Program. 197.
- Blann, A.D., Sunil, K., Gregory, Y.H. 2003. The adhesion molecule P-selectin and cardiovascular disease. *European Heart Journal*, 24:2166–2179.
- British Committee for Standards in Haematology (BCSH). 2003. Blood Transfusion Task Force. Guidelines for the use of platelet transfusions. *Br J Haematol.*, 122(1):10-23.
- Brown, C.J. & Navarrete, C.V. 2011. Clinical relevance of the HLA system in blood transfusion. *Vox Sanguinis*, 101,93–105
- Brubaker, D.B., Marcus, C., Holmes, E. 1998. Intravascular and total body platelet equilibrium in healthy volunteers and in thrombocytopenic

- patients transfused with single donor platelets. *American Journal of Hematology*, 58, 165–176.
- Castaman, G. dan Pieri, L. 2018. Management of thrombocytopenia in cancer. *Thromb Res*, 164(1):89-93.
- CLSI, 2010. *Validation, Verification and Quality assurance of Automated Hematology Analyzers; Approved Standard 2<sup>nd</sup> Ed*, CLSI document H26-P2. Wayne, Pennsylvania. pp:2-26
- Cushing, M.M. 2013. *Transfusion Medicine and Hemostasis: Clinical and Laboratory Aspects*, chapter Platelet Products. Elsevier, San Diego
- Daly, P.A., Schiffer, C.A., Aisner, J., Wiernik, P.H. 1980. Platelet transfusion therapy. One-hour posttransfusion increments are valuable in predicting the need for HLA-matched preparations. *JAMA*, 243(5):435–438.
- David, G. dan Patrono, C. 2008. Platelet activation and atherothrombosis. *N Engl J Med*, 357(24):2482-94.
- Delaflor-Weiss, E. & Mintz, P.D., 2000. The Evaluation and Management of Platelet Refractoriness and Alloimmunization. *Transfus Med Rev*, 14(2):180–196.
- Desborough, M., Estcourt, L.J., Doree, C., Trivella, M., Hopewell, S., Stanworth, S.J., Murphy, M.F. 2016. Alternatives, and adjuncts, to prophylactic platelet transfusion for people with haematological malignancies undergoing intensive chemotherapy or stem cell transplantation. *Cochrane Database Syst Rev*, 22(8): CD010982.
- Devine, D.V. dan Serrano, K. 2010. The platelet storage lesion. *Clin Lab Med*, 30:475-87.
- Dijkstra-Tiekstra, M.J., van de Watering, L.M., Rondeel, J.M., Slomp, J., de Wildt-Eggen, J. 2014. Implementation of a new platelet pooling system for platelet concentrates led to a higher corrected count increment after transfusion: a comparative observational study of platelet concentrates before and after implementation. *Transfus Med*; 24(2):99–104.
- Doughty, H., Murphy, M., Metcalfe, P., Rohatiner, A., Lister, T., Waters, A. 1994. Relative importance of immune and non-immune causes of platelet refractoriness. *Vox Sanguinis*, 66, 200–205.
- Doughty, H.A., Murphy, M.F., Metcalfe, P., Rohatiner, A.Z., Lister, T.A. & Waters, A.H. 1994. Relative importance of immune and non-immune causes of platelet refractoriness. *Vox Sanguinis*, 66, 200–205
- Elstad, M.R., McIntyre, T.M., Prescott, S.M., Zimmerman, G.A. 2015. The interaction of leukocytes with platelets in blood coagulation. *Curr Opin Hematol.*, 2:47.
- Elting, L.S., Rubenstein, E.B., Martin, C.G., Kurtin, D., Rodriguez, S., Laiho, E., et al. 2011. Incidence, Cost, and Outcomes of Bleeding and

- Chemotherapy Dose Modification among Solid Tumor Patients with Chemotherapy-Induced Thrombocytopenia. *J Clin Oncol*; 19:1137-46.
- Enright, H., Gernsheimer, T., McCullough, J., *et al.* 1997. Moderate to severe reactions to platelet transfusion: Experience of the TRAP multicenter trial. *Blood*, 90: 1172A. (abstr)
- Ferroni, P., Guadagni, F., Rioldino, S., *et al.* 2014. Evaluation of mean platelet volume as a predictive marker for cancer-associated venous thromboembolism during chemotherapy. *Haematologica*, 99(10):1638–1644.
- Fijnheer R, Modderman PW, Veldman H, *et al.* 1990. Detection of platelet activation with monoclonal antibodies and flow cytometry. Changes during platelet storage. *Transfusion*, 30:20-5
- Freyenhofer, M.K., Gruber, S.C., Grove, E.L., Weiss, T.W., Wojta, T.W., Huber, K. 2015. Antiplatelet drugs in patients with enhanced platelet turnover: biomarkers versus platelet function testing. *Thrombosis and Haemostasis*, 114(3): 459–468.
- Friedberg, R.C. dan Mintz, P.D. 2005. Causes of refractoriness to platelet transfusion. *Curr Opin Hematol*, 2:493-498.
- Fujimoto, T.T., Noda, M., Takafuta, T., *et al.* 2006. Expression and functional characterization of the P-selectin glycoprotein ligand-1 in various cells. *Int J Hematol*, 64(3-4):231–9
- Funheer. R., Moddennan, P.W., Veldman, H., *et al.* 1990. Detection of platelet activation with monoclonal antibodies and flowcytometry: Changes during platelet storage. *Transfusion* 30:2025.
- Ghoshal, K. dan Bhattacharyya, M. 2014. Overview of platelet physiology: its hemostatic and nonhemostatic role in disease pathogenesis. *The Scientific World Journal*, 24(78):16.
- Godeau, B., Fromont, P., Seror, T., *et al.* 1999, Platelet alloimmunization after multiple transfusions: A prospective study of 50 patients. , 31 :395-400.
- Hamburger, S.A., McIntyre, T.M., Prescott, S.M., McEver, R.P. 1990. GMP-140 mediates adhesion of stimulated platelets to granulocytes. *Blood*, 75:550-554
- Heddle, N.M., Arnold, D.M., Boye, D., Webert, K.E., Resz, I., Dumont, L.J. 2008. Comparing the efficacy and safety of apheresis and whole blood-derived platelet transfusions: a systematic review. *Transfusion*, 48:1447-58.
- Herter, J.M., Rossaint, J. Zarbock, A. 2014. Platelets in inflammation and immunity. *Journal of Thrombosis and Haemostasis*, 12(11): 1764–1775.

- Hill-Zobel, R.L., McCandless, B., Kang, S.A., Chikkappa, G., Tsan, M.F. 1986. Organ distribution and fate of human platelets: studies of asplenic and splenomegalic patients. *American Journal of Hematology*, 23, 231–238.
- Hod, E. & Schwartz, J., 2008. Platelet Transfusion Refractoriness. *Br J haematol*; 142(3):348–60.
- Hoffman, R. 2005. *Hematology: Basic Principles and Practice*. Elsevier Churchill Livingstone, Edinburgh.
- Hoffmeister, K.M., Felbinger, T.W., Falet, H., *et al.* 2003. The clearance mechanism of chilled blood platelets. *Cell*, 112(1):87.
- Holme, S., Sweeney, J.D., Sawyer, S., Elfath, M.D. 1997. The expression of p-selectin during collection, processing, and storage of platelet concentrates: relationship to loss of in vivo viability. *Transfusion*, 37: 12–17.
- Horvath, M., Eichelberger, B., Koren, D., Bohm, A., Ay, C., Jilma-Stohlawetz, B., 2009. Function of Platelets in Apheresis Platelet Concentrates and in Patient Blood after Transfusion as Assessed by Impact-R. *J Trans* 50:59
- Hulley, S.B., Cummings, S.R., Browner, W.S., Grady, D., Newman, T.B. 2013 *Designing clinical research: an epidemiologic approach*. 4th ed. Philadelphia, PA: Lippincott Williams & Wilkins, Appendix 6C, page 79
- Jenne, C. N., Urrutia, R., Kubes, P. 2013. Platelets: bridging hemostasis, inflammation, and immunity,” *International Journal of Laboratory Hematology*, 35(3): 254–261.
- Johnston, G.I., Cook, R.G., McEver, R.P. 1999. Cloning of GMP-140, a granule membrane protein of platelets and endothelium: sequence similarity to proteins involved in cell adhesion and inflammation. *Cell*, 56:1033–44.
- Josephson, C.D. dan Hillyer, C.D. 2004. *Handbook of Pediatric Transfusion*, chapter Blood Components. Elsevier Academic Press, Philadelphia.
- Julmy, F., Ammann, R.A., Taleghani, B.M., Fontana, S., Hirt, A., Leibundgut, K. 2009. Transfusion efficacy of ABO major mismatched platelets in children is inferior to that of ABO identical platelets. *Transfusion*, 49:21–33
- Kerkhoffs, J., Eikenboom, J., van de Wattering, L., van Wordragen-Vlaswinkel, R.J., Wijermans, P., Brand, A. 2008. The clinical impact of platelet refractoriness: correlation with bleeding and survival. *Transfusion*, 48, 1959–1965.
- Kim, S.W., dan Lim, Y.A. 2006. Establishment of reference values for platelet activation markers by flowcytometry. *Korean J Lab Med*, 26:323–328.
- Kleinman, S., King, M.R., Busch, M.P., Murphy, E.L., Glynn, S.A. 2012. for The National Heart Lung and Blood Institute Retrovirus Epidemiology Donor Study and Retrovirus Epidemiology Donor Study-II. The NHLBI

- Retrovirus Epidemiology Donor Studies (REDS and REDSII): Twenty years of research to advance blood product safety and availability. *Transfusion Medical Reviews*, 26:281–304.
- Krishnamurti, C.P., Maglasang, P., Rothwell, S.W. 1999. Reduction of blood loss by infusion of human platelets in a rabbit kidney injury model. *Transfusion*, 39:967-74.
- Legler, T., Fischer, I., Dittmann, J., *et al.* 1997. Frequency and causes of refractoriness in multiply transfused patients. *Annals of Hematology*, 74, 185–189.
- Lim, Y.A., Cho, S.R., Lee, W.G., Park, J.S., Kim, S.W. 2008. Change of platelet activation markers using flow cytometry in patients with hematology/oncology disorders after transfusion. *Platelets*, 19(5): 328–334.
- MacLennan, S., Harding, K., Llewelyn, C., Choo, L., Bakrania, L., Massey, E., Stanworth, S., Pendry, K., Williamson, L.M. 2015. A randomized noninferiority crossover trial of corrected count increments and bleeding in thrombocytopenic hematology patients receiving 2- to 5- versus 6- or 7-day-stored platelets. *Transfusion*; 55(8):1856–65.
- Margolin, J.F., Rabin, K.R., Steuber, P., Poplack, D.G. 2011. Acute lymphoblastic leukemia. In: Pizzo PA, Poplack DG. (eds). *Principles and Practice of Pediatric Oncology*, 6th ed. Philadelphia, PA: Lippincott, Williams and Wilkins.
- Maugeri, N., Malato, S., Femia, E.A., Pugliano, M., Campana, L., Lunghi, F., Rovere-querini, P., Lussana, F., Podda, G., Cattaneo, M., Ciceri, F., Manfredi, A. A., 2011. Clearance of circulating activated platelets in polycythemia vera and essential thrombocythemia. *Blood*, 118(12), pp.3359–336
- Maugeri, N., Rovere-querini, P., Evangelista, V., Covino, C., Capobianco, A., Bertilaccio, M. T. S., Piccoli, A., Totani, L., Cianflone, D., Maseri, A., Manfredi, A. A., 2009. Neutrophils phagocytose activated platelets in vivo : a phosphatidylserine , P-selectin , and  $\alpha_2$  integrin – dependent cell clearance program. *Blood Journal*, 113(21), pp.5254–5266.
- McFarland, G. 1997. Laboratory investigation of drug-induced immune thrombocytopenias. *Transfus Med Rev*, 7:275-287.
- McFarland, G., Anderson, A.F., Slichter, S. 1990. Factors influencing the transfusion response to HLA selected apheresis donor platelets in patient refractory to random platelet concentrates. *Br Haemato*, 73:380-386.1999
- Merten, M., dan Thiagarajan, P. 2012. P-selectin expression on platelets determines size and stability of platelet aggregates. *Circulation*, 102:1931–6.

- Michelson AD., Newburger PE., 2007. Platelets and Leukocytes : Aggregate Knowledge. *Blood*. 110 (3).
- Michelson, A.D., Barnard, M.R., Hectman, H.B., McGregor, H., Connolly, R.J., Loscalzo, J., Valeri, C.R. 1996. In vivo tracking of platelets: Circulating degranulated platelets rapidly lose surface P-selectin but continue to circulate and function. *Proc. Natl. Acad. Sci.*, 93:11877-11882
- Michelson, A.D., Barnard, M.R., Krueger, L.A. 2002. Flow cytometric analysis of platelet function. In: Gressle, P., Page, C., Fuster V., Vermynen, J., editors. *Platelets in thrombotic and non-thrombotic disorders*. Cambridge University Press.
- Mittal, K. dan Kaur, R. 2015. Platelet storage lesion: An update. *Asian J Transfus Sci*, 9(1): 1-3.
- Moroff, G., George, V.M., Siegl, A.M., *et al.* 2006. The influence of irradiation on stored platelets. *Transfusion*, 26:453-456.
- Norol, F., Kuentz, M., Cordonnier, C., *et al.* 1994. Influence of clinical status on the efficiency of stored platelet transfusion. *Br Haematol.*, 86:125-129.
- Ozaki, Y., Suzuki-Inoue, K., Inoue, O. 2013. Platelet receptors activated via multimerization: glycoprotein VI, GPIb-IX-V, and CLEC-2. *Journal of Thrombosis and Haemostasis*, 11(1):330–339
- Pavenski, K., Freedman, J. & Semple, J.W. 2012. HLA alloimmunization against platelet transfusions: pathophysiology, significance, prevention and management. *Tissue Antigens*, 79, 237–245.
- Petz, L.D., Garratty, G., Calhoun, L., Clark, B.D., Terasaki, P.I., Gresens, C., Gornbein, J.A., Landaw, E.M., Smith, R. & Cecka, J.M. 2000. Selecting donors of platelets for refractory patients on the basis of HLA antibody specificity. *Transfusion*, 40, 1446–1456.
- Reimers, H.I., Kinlough-Rathbone, R.L., Cazenave, J.P., *et al.* 1973. In vitro and In vivo functions of thrombin treated platelets. *Thromb Haemos*, 35:151-66.
- Ribatti, D. dan Crivellato, E. 2007. Giulio Bizzozzero and the discovery of platelets. *Leukemia Research*, 31(10): 339–1341.
- Rinder, H.M., Murphy, M., Mitchell, J.G., Stocks, J., Hillma, R.S. 1991. *Transfusion*, 31(5):409-414
- Rinder, H.M., Murphy, M., Mitchell, J.G., *et al.* 2001 Progressive platelet activation with storage: Evidence for shortened survival of activated platelets after transfusion. *Transfusion*, 31 :409-414.
- Saris, A., Brinke, A.T., Middleburg, *et al.* 2018. The quality of platelet concentrates related to corrected count increment: linking in vitro to in vivo. <https://doi.org/10.1111/trf.14868> (abstr)



- Scheurer, M.E., Bondy, M.L., Gourney, J.G. 2012. Epidemiology of childhood cancer. In: Pizzo PA, Poplack DG. (eds). *Principles and Practice of Pediatric Oncology* 6th ed. Philadelphia, PA: Lippincott, Williams and Wilkins.
- Schiffer, C.A., Anderson, K.C., Bennett, C.L., *et al.* 2001. Platelet transfusion for patients with cancer: clinical practice guidelines of the American Society of Clinical Oncology. *J Clin Oncol*, 19(5):1519-1538.
- Schiffer, C.A., O'Connell, Lee, E.J. 1999. Platelet transfusion therapy for alloimmunized patients: Selective mismatching for HLA B 12, an antigen with variable expression on platelets. *Blood*, 74:1172-1176.
- Semple, J.W., Italiano, Jr. J.E., Freedman, J. 2011. Platelets and the immune continuum. *Nat Rev Immunol*, 11:264–74.
- Sharma, G. dan Berger, J. S. 2011. Platelet activity and cardiovascular risk in apparently healthy individuals: a review of the data. *Journal of Thrombosis and Thrombolysis*, 32(2): 201–208.
- Shastri S. dan Chaudhary, R. 2012. Clinical factors influencing corrected count increment. *Transfus Apher Sci*. 47(3):327–330.
- Shehata, N., Tinmouth, A., Naglie, G., Freedman, J. & Wilson, K. 2009. ABO-identical versus nonidentical platelet transfusion: a systematic review. *Transfusion*, 49, 2442–2453
- Shrivastava, M. 2009. The platelet storage lesion. *Transfus Apher Sci*, 41:105-13.
- Slichter, S.J. 1988. Platelet transfusion therapy. *Hematol Oncol Clin North Am*, 21(4):697-729.
- Slichter, S.J. 1990. *Mechanisms and Management of Platelet Refractoriness*, in Nan SJ (ed): *Transfusion Medicine in the 1990's*. Arlington, VA, American Association of Blood Banks, 95-179.
- Stanworth, S.J., Navarrete, C. Estcourt, L., Marsh, J. 2015. Platelet refractoriness – practical approaches and ongoing dilemmas in patient management. *British Journal of Haematology*, 171, 297–305
- Sukorini, U., Rizki, M., 2010. Dasar-dasar Kontrol Kualitas Internal. In: Sukorini, U., Nugroho, D. K., Rizki, M., Hendriawan, B., editor, *Pemantauan Mutu Internal Laboratorium Klinik*, Alfa Media, Yogyakarta. pp:13-38
- Sut, C., Aloui, C., Tariket, S., *et al.* 2017. Assessment of soluble platelet CD40L and CD62P during the preparation process and the storage of apheresis platelet concentrates: Absence of factors related to donors and donations. *Transfusion Clinique et Biologique*, xx:xx.
- Sysmex Corporation, 2010. Automated Hematology Analyzer XN Series (For XN-1000 System) Instruction for Use. Sysmex Corporation, Kobe. pp: (7-1)-(15-34).

- Thomas, M.R., dan Storey, R.F. 2015. The role of platelets in inflammation. *Thrombosis and Haemostasis*, 114(3):449–458.
- tier Lelie V., Plas-Van, V., Dallen, C.M., Borne, V.K. 1984. AEGKr: Platelet autoantibodies in septicaemia. *Br J Hematol*, 58:755-758.
- Tormey, C.A., Stack, G. 2014. Use of a cytokine-release assay to demonstrate loss of platelet secretory capacity during blood bank processing and storage. *Arch Pathol Lab Med* 138: 1481–7.
- Triulzi, D.J., Assmann, S.F., Strauss, R.G., *et al.* 2012. The impact of platelet transfusion characteristics on posttransfusion platelet increments and clinical bleeding in patients with hypoproliferative thrombocytopenia. *Blood*, 119:5553–62
- UPTD RSUP Dr. Sardjito, 2016. *Laporan Pengeluaran Darah dan Rekapitulasi Pengeluaran Darah*. Yogyakarta.
- van Bladel, E.R., Laarhoven, A.G., van der Heijden, L.B., *et al.* 2014. Functional platelet defects in children with severe chronic ITP as tested with 2 novel assays applicable for low platelet counts. *Blood*, 123:1556-63.
- van der Meer, P.F. dan de Korte, D. 2011. Platelet preservation: agitation and containers. *Transfus Apher Sci*, 44(3):297-304
- Wencel-Drake, J.D., Boudignon-Proudhon, C., Dieter, M.G., Criss, A.B., Parise, L.V. 1996. Internalization of bound fibrinogen modulates platelet aggregation. *Blood*, 87:602.
- Wood, L., Jogessar, V., Ward P., Jacobs, P. 2005. Estimation and predictive use of the corrected count increment—a proposed clinical guideline. *Transfus Apher Sci*, 32(1): 117–124.
- World Health Organization. 2013. Global database on blood safety. Diunduh dari : [http://www.who.int/bloodsafety/global\\_database/en](http://www.who.int/bloodsafety/global_database/en) , 2 Juni 2016.
- World Health Organization, 2015. Blood safety and availability. *who.int/mediacentre/factsheets*, pp.1–8.