



DAFTAR PUSTAKA

- Adler, A. I., Stratton, I. M., Neil, H. A. W., Yudkin, J. S., Matthews, D. R., Cull, C. A., ... Holman, R. R. 2000. Association of systolic blood pressure with macrovascular and microvascular complications of type 2 diabetes (UKPDS 36): prospective observational study. *BMJ*, 321, 412–419.
- Ahsan, H. 2015. Diabetic retinopathy - Biomolecules and multiple pathophysiology. *Diab Med Syndr: Clin Res Rev*, 9(1), 51–54.
- American Academy of Ophthalmology. 2016. *Basic and Clinical Science Course : Retina and Vitreus*. San Francisco: American Academy of Ophthalmology, Inc.
- Andrews, R. K., & Berndt, M. C. 2004. Platelet physiology and thrombosis. *J Throm Res*, 114(5–6 SPEC. ISS.), 447–453.
- Antonetti, D. A., Barber, A. J., Bronson, S. K., Freeman, W. M., Gardner, T. W., Jefferson, L. S., ... Simpson, I. A. 2006. Diabetic retinopathy: Seeing beyond glucose-induced microvascular disease. *Diabetes*, 55(9), 2401–2411.
- Araz Gungor, A., Gursoy, G., Gungor, F., Bayram, S. M., & Atalay, E. 2016. The relationship of mean platelet volume with microalbuminuria in type 2 diabetic patients. *Turk J Med Sci*, 46(July 2012), 251–258.
- Ayhan Tuzcu, E., Arica, S., Ilhan, N., Daglioglu, M., Coskun, M., Ilhan, O., & Ustun, I. 2014. Relationship between mean platelet volume and retinopathy in patients with type 2 diabetes mellitus. *Graefes Arch Clin Exp Ophthalmol*, 252(2), 237–240.
- Bae, S. H., Lee, J., Roh, K. H., & Kim, J. 2003. platelets activation in Patients with Diabetic Retinopathy.pdf. *Korean J Ophthalmol*, 17, 140–144.
- Bastaki, S. 2005. Review Diabetes mellitus and its treatment. *Int J Diabetes & Metabolism*, 13, 111–134.
- Blum, A., Pastukh, N., Socea, D., & Jabaly, H. 2017. Levels of adhesion molecules in peripheral blood correlate with stages of diabetic retinopathy and may serve as bio markers for microvascular complications. *Cytokine*, (November), 0–1.
- Boshnak, N. H. 2017. Reference intervals for platelet indices using Sysmex XT-1800i in Egyptian population. *Int J Med Health Res*, 3(2), 4–11.
- Brown, M., & Wittwer, C. 2000. Flow cytometry: Principles and clinical applications in hematology. *Clin Chem*, 46(8 II), 1221–1229.
- Burgess, P. I., MacCormick, I. J., Harding, S. P., Bastawrous, A., Beare, N. A., & Garner, P. 2013. Epidemiology of diabetic retinopathy and maculopathy in Africa: a systematic review. *Diabet Med*, 30(4), 399–412.
- Buse, M. G. 2005. Hexosamines, insulin resistance, and the complications of diabetes: current status. *Am J Physiol Endocrinol Metab*, 290(1), E1–E8.
- Butkiewicz, A. M., Kemona, H., Dymicka-Piekarska, V., Matowicka-Karna, J., Radziwon, P., & Lipska, A. 2006. Platelet count, mean platelet volume and thrombocytopoietic indices in healthy women and men. *J Throm Res*, 118(2), 199–204.
- Caldwell, R. B., Bartoli, M., Behzadian, M. A., El-Remessy, A. E. B., Al-Shabrawey, M., Platt, D. H., & Caldwell, R. W. 2003. Vascular endothelial



- growth factor and diabetic retinopathy: Pathophysiological mechanisms and treatment perspectives. *Diabetes Metab Res Rev*, 19(6), 442–455.
- Cay, N., Ipek, A., Gumus, M., Birkan, Z., & Ozmen, E. 2012. Platelet activity indices in patients with deep vein thrombosis. *Clin Appl Thromb Hemost*, 18(2), 206–210.
- Chang, L. Y. L., Lee, A. C., & Sue, W. 2017. Prevalence of diabetic retinopathy at first presentation to the retinal screening service in the greater Wellington region of New Zealand 2006–2015, and implications for models of retinal screening. *N Z Med J*, 130(1450), 78–88.
- Chung, I., Choudhury, A., & Lip, G. Y. H. 2007. Platelet activation in acute, decompensated congestive heart failure. *J Thromb Res*, 120(5), 709–713.
- Ciulla, T. A., Amador, A. G., & Zinman, B. 2003. Diabetic retinopathy and diabetic macular edema: Pathophysiology, screening, and novel therapies. *Diabetes Care*, 26(9), 2653–2664.
- Diaz-Ricart, M., Brunso, L., Pino, M., Navalon, F., Jou, J. M., Heras, M., ... Esclar, G. 2010. Preanalytical treatment of EDTA-anticoagulated blood to ensure stabilization of the mean platelet volume and component measured with the ADVIA counters. *J Thromb Res*, 126(1), e30–e35.
- Ding, J., & Wong, T. Y. 2012. Current epidemiology of diabetic retinopathy and diabetic macular edema. *Curr Diab Rep*, 12(4), 346–354.
- Dolasik, I., Sener, S. Y., Celebi, K., Aydin, Z. M., Korkmaz, U., & Canturk, Z. 2012. The effect of metformin on mean platelet volume in diabetic patients. *Platelets*, 24(2), 118–121.
- Fantus, I. G., Goldberg, H., Whiteside, C., & Topic, D. 2006. The Hexosamine Biosynthesis Pathway. In P. Cortes & C. E. Mogensen (Eds.), *The Diabetic Kidney* (pp. 117–133). New Jersey: Humana Press. https://doi.org/10.1007/978-1-59745-153-6_7
- Ferroni, P., Basili, S., Falco, A., & Davì, G. 2004. Platelet activation in type 2 diabetes mellitus. *J Thromb Haemost*, 2(8), 1282–1291.
- Fitch-Tewfik, J. L., & Flaumenhaft, R. 2013. Platelet granule exocytosis: A comparison with chromaffin cells. *Front Endocrinol (Lausanne)*, 4(JUN), 1–11.
- Fong, D. S., Aiello, L., Gardner, T. W., King, G. L., Blankenship, G., Cavallerano, J. D., ... Klein, R. 2004. Retinopathy in Diabetes. *Diabetes Care*, 27(SUPPL. 1).
- Gargiulo, P., Caccese, D., Pignatelli, P., Brufani, C., De Vito, F., Marino, R., ... Sanguigni, V. 2002. Metformin decreases platelet superoxide anion production in diabetic patients. *Diabet Metab Res Rev*, 18(2), 156–159.
- Geraldes, P., & King, G. L. 2010. Activation of protein kinase C isoforms and its impact on diabetic complications. *Circulation Research*.
- Ghahremanfar, F., Semnani, V., Ghorbani, R., Malek, F., Behzadfar, A., & Zahmatkesh, M. 2015. Effects of cigarette smoking on morphological features of platelets in healthy men. *Saudi Med J*, 36(7), 847–850.
- Ghoshal, K., & Bhattacharyya, M. 2014. Overview of platelet physiology: Its hemostatic and nonhemostatic role in disease pathogenesis. *Sci World J*, 2014.



- Habashy, D. M. M., & Mohamed, M. R. 2013. Platelet aggregation in various stages of diabetic retinopathy: evaluation using the PFA-100. *Egyptian Journal of Haematology*, 38, 17–22.
- Hajar, S., Hazmi, A. Al, Wasli, M., Mousa, A., & Rabiu, M. 2015. Prevalence and causes of blindness and diabetic retinopathy in southern Saudi Arabia. *Saudi Med J*, 36(4), 449–455.
- Hammes, H. P., Lin, J., Renner, O., Shani, M., Lundqvist, A., Betsholtz, C., ... Deutsch, U. 2002. Pericytes and the pathogenesis of diabetic retinopathy. *Diabetes*, 51(10), 3107–3112.
- International Council of Ophthalmology. 2017. ICO Guidelines for Diabetic Eye Care. Retrieved from <http://www.icoph.org/resources/309/ICO-Guidelines-for-Diabetic-Eye-Care.html>
- Jennings, L. K. 2009. Mechanisms of platelet activation: Need for new strategies to protect against platelet-mediated atherothrombosis. *Thromb Haemost*, 102(2), 248–257.
- Kajiwara, A., Miyagawa, H., Saruwatari, J., Kita, A., & Sakata, M. 2014. Gender differences in the incidence and progression of diabetic retinopathy among Japanese patients with type 2 diabetes mellitus : A clinic-based retrospective longitudinal study. *Diabetes Res Clin Pract*, 103(3), e7–e10.
- Kaštelan, S. D., T. M. T., Antunica, A. G. T., T. S. L., T. J. S. R., & T. M. K. 2013. Body Mass Index : A Risk Factor for Retinopathy in Type 2 Diabetic Patients. *Mediators Inflamm*, 2013.
- Kempen, J. H., O'Colmain, B. J., Leske, M. C., Haffner, S. M., Klein, R., Moss, S. E., ... Hamman, R. F. 2004. The prevalence of diabetic retinopathy among adults in the United States. *Arch Ophthalmol*, 122(4), 552–563.
- Kim, M. J., Park, P. W., Seo, Y. H., Kim, K. H., Seo, J. Y., Jeong, J. H., ... Ahn, J. Y. 2013. Reference intervals for platelet parameters in Korean adults using ADVIA 2120. *Ann Lab Med*, 33(5), 364–366.
- Kim, S., Im, J., Lee, J., & Lee, D. 2006. Age Related Increase of Platelet Activation. *J Exp Biomed Sci*, 12, 337–341.
- Klein, R., Klein, B. E. K., & Moss, S. E. 1984. Visual Impairment in Diabetes. *Ophthalmology*, 91(1), 1–9.
- Lee, R., Wong, T. Y., & Sabanayagam, C. 2015. Epidemiology of diabetic retinopathy, diabetic macular edema and related vision loss. *Eye Vis (Lond)*, 2, 17.
- Liu, Y., Song, Y., Tao, L., Qiu, W., Lv, H., Jiang, X., ... Li, X. 2017. Prevalence of diabetic retinopathy among 13473 patients with diabetes mellitus in China: a cross-sectional epidemiological survey in six provinces. *BMJ Open*, 7(1), e013199.
- Lorenzi, M. 2007. The polyol pathway as a mechanism for diabetic retinopathy: Attractive, elusive, and resilient. *Exp Diabetes Res*, 2007.
- Lu, J., Hou, X., Zhang, L., Jiang, F., Hu, C., Bao, Y., & Jia, W. 2015. Association between body mass index and diabetic retinopathy in Chinese patients with type 2 diabetes. *Acta Diabetol*, 52(4), 701–708.
- Macey, M. G., Carty, E., Webb, L., Chapman, E. S., Zelmanovic, D., Okrongly, D., ... Newland, A. C. 1999. Use of mean platelet component to measure



- platelet activation on the ADVIA 120 haematology system. *Cytometry*, 38(5), 250–255.
- Nguyen, Q. M., Xu, J.-H., Chen, W., Srinivasan, S. R., & Berenson, G. S. 2012. Correlates of Age Onset of Type 2 Diabetes Among Relatively Young Black and White Adults in a Community: The Bogalusa Heart Study. *Diabetes Care*, 35(6), 1341–1346.
- Ozawa, G. Y., Jr, M. A. B., & Adams, A. J. 2014. Male – Female Differences in Diabetic Retinopathy ? *Curr Eye Res*, (February), 1–13.
- Ramavat, P. R., Ramavat, M. R., Ghugare, B. W., Vaishnav, R. G., & Joshi, M. U. 2013. Prevalence of Diabetic Retinopathy in Western Indian Type 2 Diabetic Population: A Hospital – based Cross – Sectional Study. *J Clin Diagn Res*, 7(7), 1387–1390.
- Rechner, A. R. 2011. Platelet function testing in clinical diagnostics. *Hamostaseologie*.
- Rival, J., Riddle, J. M., & Stein, P. D. 1987. Effects of Chronic Smoking on Platelet Function. *J Throm Res*, (c), 75–85.
- Rodriguez-Poncelas, A., Miravet-Jiménez, S., Casellas, A., Barrot-De, J. F., Puente, L., Franch-Nadal, J., ... Ciutat, B. 2015. Prevalence of diabetic retinopathy in individuals with type 2 diabetes who had recorded diabetic retinopathy from retinal photographs in Catalonia (Spain) Manel Mata-Cases, 4,8 Xavier Mundet-Tudurí. *Br J Ophthalmol*, 99, 1628–1633.
- Saari, J. M., Summanen, P., Kivela, T., & Matti, K. 2004. Sensitivity and specificity of digital retinal images in grading diabetic retinopathy. *Acta Ophthalmol Scand*, 82, 126–130.
- Saboor, M., Moinuddin, & Ilyas, S. 2012. Platelets Structural , Functional and Metabolic Alterations in Diabetes Mellitus. *Pak J Physiol*, 8(2), 40–43.
- Schlingemann, R. O., Van Noorden, C. J. F., Diekman, M. J. M., Tiller, A., Meijers, J. C. M., Koolwijk, P., & Wiersinga, W. M. 2013. VEGF levels in plasma in relation to platelet activation, glycemic control, and microvascular complications in type 1 diabetes. *Diabetes Care*, 36(6), 1629–1634.
- Schneider, D. J. 2009. Factors Contributing to Increased Platelet Reactivity in People With Diabetes. *Diabetes Care*, 32(4), 525–527.
- Segura, D., Monreal, L., Armengou, L., Tarancón, I., Brugués, R., & Esclar, G. 2007. Mean platelet component as an indicator of platelet activation in foals and adult horses. *J Vet Intern Med*, 21(5), 1076–1082.
- Singh, R., Ramasamy, K., Abraham, C., Gupta, V., & Gupta, A. 2008. Diabetic retinopathy: An update. *Indian J Ophthalmol*, 56(3), 179–188.
- Singh, V. P., Bali, A., Singh, N., & Jaggi, A. S. 2014. Advanced Glycation End Products and Diabetic Complications. *Korean J Physiol Pharmacol*, 18(1), 1–14.
- Soares. 2010. Hemostatic changes in patients with type 2 diabetes mellitus. 2010; *Rev Bras Hematol Hemoter.*, 32(6), 482–488.
- Soewondo, P., Ferrario, A., & Tahapary, D. L. 2013. Challenges in diabetes management in Indonesia: a literature review. *Globalization and Health*, 9, 63–80.
- Solomon, S. D., Chew, E., Duh, E. J., Sobrin, L., Sun, J. K., VanderBeek, B. L.,



- ... Gardner, T. W. 2017. Diabetic Retinopathy: A Position Statement by the American Diabetes Association. *Diabetes Care*, 40(3), 412–418.
- Stratmann, B., & Tschoepe, D. 2005. Pathobiology and cell interactions of platelets in diabetes. *Diabetes Vasc Dis Res*, 2(1), 16–23.
- Tian, H., Song, G., Xie, H., Zhang, H., Tuomilehto, J., & Hu, G. 2009. Prevalence of diabetes and impaired fasting glucose among 769 792 rural Chinese adults. *Diabetes Res Clin Pract*, 84(3), 273–278.
- Tuzcu, E. A., Arica, S., & Ilhan, N. 2014. Relationship between mean platelet volume and retinopathy in patients with type 2 diabetes mellitus. *J Ophthalmol*, 252(Mi), 237–240.
- Vagdatli, E., Gounari, E., Lazaridou, E., Katsibourlia, E., Tsikopoulou, F., & Labrianou, I. 2010. Platelet distribution width: A simple, practical and specific marker of activation of coagulation. *Hippokratia*, 14(1), 28–32.
- Vinik, A. I., Erbas, T., Park, T. S., Nolan, R., & Pittenger, G. L. 2001. Platelet dysfunction in type 2 diabetes. *Diabetes Care*, 24(8), 1476–1485.
- Walsh, T. G., Metharom, P., & Berndt, M. C. 2014. The functional role of platelets in the regulation of angiogenesis. *Platelets*, 7104(October), 1–13.
- White, J. G. 1979. Current concepts of platelet structure. *Am J Clin Pathol*, 71(4), 363–378.
- Yau, J. W. Y., Rogers, S. L., Kawasaki, R., Lamoureux, E. L., Kowalski, J. W., Bek, T., ... Wong, T. Y. 2012. Global prevalence and major risk factors of diabetic retinopathy. *Diabetes Care*, 35(3), 556–564.
- Zhang, X., Saaddine, J. B., Chou, C., Cotch, M. F., Cheng, Y. J., Geiss, L. S., ... Klein, R. 2010. Prevalence of diabetic retinopathy in the United States, 2005–2008. *JAMA*, 304(6), 649–656.
- Zheng, Y., He, M., & Congdon, N. 2012. The worldwide epidemic of diabetic retinopathy. *Indian J Ophthalmol*, 60(5), 428.
- Zhong, Z.-L., Han, M., & Chen, S. 2011. Risk factors associated with retinal neovascularization of diabetic retinopathy in type 2 diabetes mellitus. *Int J Ophthalmol*, 4(2), 182–185.