

DAFTAR PUSTAKA

- AAO. (2021). *2021-2022 Basic and Clinical Science Course, Section 12: Retina and Vitreous* (AAO, Ed.; 2021–2022 ed., Vol. 12). AAO.
- Abedi, F., Wickremasinghe, S., Richardson, A. J., Islam, A. F. M., Guymer, R. H., & Baird, P. N. (2013). Genetic influences on the outcome of anti-vascular endothelial growth factor treatment in neovascular age-related macular degeneration. *Ophthalmology*, 120(8), 1641–1648. <https://doi.org/10.1016/j.ophtha.2013.01.014>
- Adão-Novaes, J., de Cássia Belem Guterres, C., da Silva, A. G. L. S., Campello-Costa, P., Linden, R., & Sholl-Franco, A. (2009). Interleukin-4 blocks thapsigargin-induced cell death in rat rod photoreceptors: Involvement of cAMP/PKA pathway. *Journal of Neuroscience Research*, 87(9), 2167–2174. <https://doi.org/10.1002/jnr.22026>
- Ambati, J., Atkinson, J. P., & Gelfand, B. D. (2013). Immunology of age-related macular degeneration. Dalam *Nature Reviews Immunology* (Vol. 13, Nomor 6, hlm. 438–451). <https://doi.org/10.1038/nri3459>
- Ambati, J., & Fowler, B. J. (2012). Mechanisms of age-related macular degeneration. Dalam *Neuron* (Vol. 75, Nomor 1, hlm. 26–39). <https://doi.org/10.1016/j.neuron.2012.06.018>
- Amoaku, W. M., Chakravarthy, U., Gale, R., Gavin, M., Ghanchi, F., Gibson, J., Harding, S., Johnston, R. L., Kelly, S., Lotery, A., Mahmood, S., Menon, G., Sivaprasad, S., Talks, J., Tufail, A., & Yang, Y. (2015). Defining response to anti-VEGF therapies in neovascular AMD. *Eye (Basingstoke)*, 29(6), 721–731. <https://doi.org/10.1038/eye.2015.48>
- Ang, W. J., Zunaina, E., Norfadzillah, A. J., Raja-Norliza, R. O., Julieana, M., Ab-Hamid, S. A., & Mahaneem, M. (2019). Evaluation of vascular endothelial growth factor levels in tears and serum among diabetic patients. *PLoS ONE*, 14(8), 1–12. <https://doi.org/10.1371/journal.pone.0221481>
- Asghar, A., Rizwan, A., Fcps, N., Sughra, U., Naeem, B. ud din, & Nazir, T. (2020). Intravitreal Bevacizumab: Safety of multiple doses preparation from single vial in minor theater in tertiary care center. *Pakistan Journal of Ophthalmology*, 35, 235–241. <https://doi.org/10.36351/pjo.v35i4.888>
- Ashraf, M., Souka, A., & Adelman, R. (2016). Predicting outcomes to anti-vascular endothelial growth factor (VEGF) therapy in diabetic macular oedema: A review of the literature. Dalam *British Journal of Ophthalmology* (Vol. 100, Nomor 12, hlm. 1596–1604). BMJ Publishing Group. <https://doi.org/10.1136/bjophthalmol-2016-308388>

- Baba, T., Miyazaki, D., Inata, K., Uotani, R., Miyake, H., Sasaki, S. I., Shimizu, Y., Inoue, Y., & Nakamura, K. (2020). Role of il-4 in bone marrow driven dysregulated angiogenesis and age-related macular degeneration. *eLife*, 9, 1–22. <https://doi.org/10.7554/eLife.54257>
- Bakall, B., Folk, J. C., Boldt, H. C., Sohn, E. H., Stone, E. M., Russell, S. R., & Mahajan, V. B. (2013). Aflibercept therapy for exudative age-related macular degeneration resistant to bevacizumab and ranibizumab. *American Journal of Ophthalmology*, 156(1). <https://doi.org/10.1016/j.ajo.2013.02.017>
- Binder, S. (2012). Loss of reactivity in intravitreal anti-VEGF therapy: Tachyphylaxis or tolerance? Dalam *British Journal of Ophthalmology* (Vol. 96, Nomor 1, hlm. 1–2). <https://doi.org/10.1136/bjophthalmol-2011-301236>
- Broadhead, G. K., Hong, T., & Chang, A. A. (2014). Treating the untreatable patient: current options for the management of treatment-resistant neovascular age-related macular degeneration. Dalam *Acta ophthalmologica* (Vol. 92, Nomor 8, hlm. 713–723). <https://doi.org/10.1111/aos.12463>
- Chakravarthy, U., Wong, T. Y., Fletcher, A., Piau, E., Evans, C., Zlateva, G., Buggage, R., Pleil, A., & Mitchell, P. (2010). Clinical risk factors for age-related macular degeneration: A systematic review and meta-analysis. *BMC Ophthalmology*, 10(1). <https://doi.org/10.1186/1471-2415-10-31>
- Chaudhary, V., Brent, M., Lam, W. C., Devenyi, R., Teichman, J., Mak, M., Barbosa, J., Kaur, H., Carter, R., & Farrokhvar, F. (2016). Genetic Risk Evaluation in Wet Age-Related Macular Degeneration Treatment Response. *Ophthalmologica*, 236(2), 88–94. <https://doi.org/10.1159/000446819>
- Chen, H., Yu, K. da, & Xu, G. Z. (2012). Association between variant Y402H in age-related macular degeneration (AMD) susceptibility gene CFH and treatment response of AMD: A meta-analysis. *PLoS ONE*, 7(8). <https://doi.org/10.1371/journal.pone.0042464>
- Dedania, V. S., Grob, S., Kang Zhang, ‡, & Bakri, S. J. (2015). PHARMACOGENOMICS OF RESPONSE TO ANTI-VEGF THERAPY IN EXUDATIVE AGE-RELATED MACULAR DEGENERATION. *RETINA, THE JOURNAL OF RETINAL AND VITREOUS DISEASES*, 35(3), 381–391.
- García-Quintanilla, L., Almuiña-Varela, P., Maroñas, O., Gil-Rodríguez, A., Rodríguez-Cid, M. J., Gil-Martínez, M., Abalde, M. J., de Irazabal, F. G. U., González-Barcia, M., Mondelo-García, C., Cruz, R., Estany-Gestal, A., Fernández-Rodríguez, M., & Fernández-Ferreiro, A. (2023). Influence of Genetic Polymorphisms on the Short-Term Response to Ranibizumab in Patients With Neovascular Age-Related Macular Degeneration. *Investigative*

Ophthalmology and Visual Science, 64(13).

<https://doi.org/10.1167/iovs.64.13.34>

- Grisanti, S., & Tatar, O. (2008). The role of vascular endothelial growth factor and other endogenous interplayers in age-related macular degeneration. Dalam *Progress in Retinal and Eye Research* (Vol. 27, Nomor 4, hlm. 372–390). <https://doi.org/10.1016/j.preteyeres.2008.05.002>
- Hagstrom, S. A., Ying, G. S., Pauer, G. J. T., Sturgill-Short, G. M., Huang, J., Callanan, D. G., Kim, I. K., Klein, M. L., Maguire, M. G., & Martin, D. F. (2013). Pharmacogenetics for genes associated with age-related macular degeneration in the comparison of AMD treatments trials (CATT). *Ophthalmology*, 120(3), 593–599. <https://doi.org/10.1016/j.ophtha.2012.11.037>
- Holekamp, N. M., Liu, Y., Yeh, W. S., Chia, Y., Kiss, S., Almony, A., & Kowalski, J. W. (2014). Clinical utilization of anti-VEGF agents and disease monitoring in neovascular age-related macular degeneration. *American Journal of Ophthalmology*, 157(4). <https://doi.org/10.1016/j.ajo.2013.12.018>
- Hu, Z., Xie, P., Ding, Y., Yuan, D., & Liu, Q. (2015). Association between variants A69S in ARMS2 gene and response to treatment of exudative AMD: A meta-analysis. Dalam *British Journal of Ophthalmology* (Vol. 99, Nomor 5, hlm. 593–598). BMJ Publishing Group. <https://doi.org/10.1136/bjophthalmol-2014-305488>
- Huang, L., Meng, Q., Zhang, C., Sun, Y., Bai, Y., Li, S., Deng, X., Wang, B., Yu, W., Zhao, M., & Li, X. (2015). Gene-gene interaction of CFH, ARMS2, and ARMS2/HTRA1 on the risk of neovascular age-related macular degeneration and polypoidal choroidal vasculopathy in Chinese population. *Eye (Basingstoke)*, 29(5), 691–698. <https://doi.org/10.1038/eye.2015.32>
- Kaiser, S. M., Arepalli, S., & Ehlers, J. P. (2021). Current and future anti-VEGF agents for neovascular age-related macular degeneration. Dalam *Journal of Experimental Pharmacology* (Vol. 13, hlm. 905–912). Dove Medical Press Ltd. <https://doi.org/10.2147/JEP.S259298>
- Kang, H. K., Yoon, M. H., Lee, D. H., & Chin, H. S. (2012). Pharmacogenetic influence of LOC387715/HTRA1 on the efficacy of bevacizumab treatment for age-related macular degeneration in a Korean population. *Korean journal of ophthalmology : KJO*, 26(6), 414–422. <https://doi.org/10.3341/kjo.2012.26.6.414>
- Lee, A. Y., Raya, A. K., Kymes, S. M., Shiels, A., & Brantley, M. A. (2009). Pharmacogenetics of complement factor H (Y402H) and treatment of exudative age-related macular degeneration with ranibizumab. *British*

Journal of Ophthalmology, 93(5), 610–613.

<https://doi.org/10.1136/bjo.2008.150995>

- Leung, K. W., Barnstable, C. J., & Tombran-Tink, J. (2009). Bacterial endotoxin activates retinal pigment epithelial cells and induces their degeneration through IL-6 and IL-8 autocrine signaling. *Molecular Immunology*, 46(7), 1374–1386. <https://doi.org/10.1016/j.molimm.2008.12.001>
- Lorés-Motta, L., Riaz, M., Grunin, M., Corominas, J., van Asten, F., Pauper, M., Leenders, M., Richardson, A. J., Muether, P., Cree, A. J., Griffiths, H. L., Pham, C., Belanger, M. C., Meester-Smoor, M. A., Ali, M., Heid, I. M., Fritsche, L. G., Chakravarthy, U., Gale, R., ... Chowers, I. (2018). Association of genetic variants with response to anti-vascular endothelial growth factor therapy in age-related macular degeneration. *JAMA Ophthalmology*, 136(8), 875–884. <https://doi.org/10.1001/jamaophthalmol.2018.2019>
- Luo, L., Zhang, X., Hirano, Y., Tyagi, P., Barabás, P., Uehara, H., Miya, T. R., Singh, N., Archer, B., Qazi, Y., Jackman, K., Das, S. K., Olsen, T., Chennamaneni, S. R., Stagg, B. C., Ahmed, F., Emerson, L., Zygmunt, K., Whitaker, R., ... Ambati, B. K. (2013). Targeted intraceptor nanoparticle therapy reduces angiogenesis and fibrosis in primate and murine macular degeneration. *ACS Nano*, 7(4), 3264–3275. <https://doi.org/10.1021/nn305958y>
- Nakashima, H., Miyake, K., Inoue, Y., Shimizu, S., Akahoshi, M., Tanaka, Y., Otsuka, T., & Harada, M. (2002). Association between IL-4 genotype and IL-4 production in the Japanese population. *Genes & Immunity*, 3(2), 107–109. <https://doi.org/10.1038/sj.gene.6363830>
- Nassar, K., Grisanti, S., Elfar, E., Lüke, J., Lüke, M., & Grisanti, S. (2015). Serum cytokines as biomarkers for age-related macular degeneration. *Graefe's Archive for Clinical and Experimental Ophthalmology*, 253(5), 699–704. <https://doi.org/10.1007/s00417-014-2738-8>
- Nawash, B., Ong, J., Driban, M., Hwang, J., Chen, J., Selvam, A., Mohan, S., & Chhablani, J. (2023). Prognostic Optical Coherence Tomography Biomarkers in Neovascular Age-Related Macular Degeneration. Dalam *Journal of Clinical Medicine* (Vol. 12, Nomor 9). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/jcm12093049>
- Pennington, K. L., & DeAngelis, M. M. (2015). Epigenetic mechanisms of the aging human retina. Dalam *Journal of Experimental Neuroscience* (Vol. 9s2, hlm. 51–79). SAGE Publications Ltd. <https://doi.org/10.4137/JEN.S25513>

- Resnikoff, S., Pascolini, D., Etya', D., Kocur, I., Pararajasegaram, R., Pokharel, G. P., & Mariotti, S. P. (2004). Global data on visual impairment in the year 2002. Dalam *Bulletin of the World Health Organization* (Vol. 82, Nomor 11).
- Rosenwasser, D. J., Klemm, L. J., Dresback, J. K., Inamura, H., Mascali, J. J., Klinnert, M., & Borish, L. (1995). Promoter polymorphisms in the chromosome 5 gene cluster in asthma and atopy. *Clinical and Experimental Allergy*, 25(2), 78.
- Ross, R. J., Verma, V., Rosenberg, K. I., Chan, C.-C., & Tuo, J. (2007). Genetic markers and biomarkers for age-related macular degeneration NIH Public Access. Dalam *Expert Review of Ophthalmology* (Vol. 2, Nomor 3).
- Salmon, J. F. (2020). *KANSKI'S Clinical Ophthalmology A Systematic Approach 9th Ed* (9 ed., Vol. 9). Elsevier Limited.
- Sastroasmoro, S., & Ismael, S. (2011). *Dasar-dasar Metodologi Penelitian Klinis* (4 ed.). Sagung Seto.
- Schmidt-Erfurth, U., Kaiser, P. K., Korobelnik, J. F., Brown, D. M., Chong, V., Nguyen, Q. D., Ho, A. C., Ogura, Y., Simader, C., Jaffe, G. J., Slakter, J. S., Yancopoulos, G. D., Stahl, N., Vitti, R., Berliner, A. J., Soo, Y., Anderesi, M., Sowade, O., Zeitz, O., ... Heier, J. S. (2014). Intravitreal aflibercept injection for neovascular age-related macular degeneration: Ninety-six-week results of the VIEW studies. *Ophthalmology*, 121(1), 193–201.
<https://doi.org/10.1016/j.ophtha.2013.08.011>
- Schmidt-Erfurth, U., & Waldstein, S. M. (2016). A paradigm shift in imaging biomarkers in neovascular age-related macular degeneration. *Progress in Retinal and Eye Research*, 50, 1–24.
<https://doi.org/10.1016/J.PRETEYERES.2015.07.007>
- Shah, A. R., Yonekawa, Y., Todorich, B., Laere, L. Van, Hussain, R., Woodward, M. A., Abbey, A. M., & Wolfe, J. D. (2017). Prediction of Anti-VEGF Response in Diabetic Macular Edema After 1 Injection. *Journal of VitreoRetinal Diseases*, 1(3), 169–174.
<https://doi.org/10.1177/2474126416682569>
- Sheikhrezaee, M., Alizadeh, M. R., & Abediankenari, S. (2020). The tear VEGF and IGFBP3 in healthy and diabetic retinopathy. *International Journal of Diabetes in Developing Countries*, 40(1), 93–98.
<https://doi.org/10.1007/s13410-019-00761-y>
- Sheu, S.-J., Ger, L.-P., Kuo, N.-W., Liu, N.-C., Wu, T.-T., & Lin, M.-C. (2012). Association of IL-4 gene polymorphism and age-related macular

- degeneration in Taiwanese adults. *Taiwan Journal of Ophthalmology*, 2(2), 51–55. <https://doi.org/10.1016/j.tjo.2012.02.002>
- Simader, C., Ritter, M., Bolz, M., Deák, G. G., Mayr-Sponer, U., Golbaz, I., Kundi, M., & Schmidt-Erfurth, U. M. (2014). Morphologic Parameters Relevant for Visual Outcome During Anti-Angiogenic Therapy of Neovascular Age-Related Macular Degeneration. *Ophthalmology*, 121(6), 1237–1245. <https://doi.org/10.1016/j.ophtha.2013.12.029>
- Solomon, S. D., Lindsley, K., Vedula, S. S., Krzystolik, M. G., & Hawkins, B. S. (2019). Anti-vascular endothelial growth factor for neovascular age-related macular degeneration. Dalam *Cochrane Database of Systematic Reviews* (Vol. 2019, Nomor 3). John Wiley and Sons Ltd. <https://doi.org/10.1002/14651858.CD005139.pub4>
- Stewart, M. W., Rosenfeld, P. J., Penha, F. M., Wang, F., Yehoshua, Z., Bueno-Lopez, E., & Lopez, P. F. (2012). *PHARMACOKINETIC RATIONALE FOR DOSING EVERY 2 WEEKS VERSUS 4 WEEKS WITH INTRAVITREAL RANIBIZUMAB, BEVACIZUMAB, AND AFLIBERCEPT (VASCULAR ENDOTHELIAL GROWTH FACTOR TRAP-EYE)*.
- Tan, W., Zou, J., Yoshida, S., Jiang, B., & Zhou, Y. (2020). The Role of Inflammation in Age-Related Macular Degeneration. *Int J Biol Sci*, 16, 2989–3001. <https://doi.org/10.7150/ijbs.49890>
- Tranos, P., Vacalis, A., Asteriadis, S., Koukoula, S., Vachtsevanos, A., Perganta, G., & Georgalas, I. (2013). Resistance to antivascular endothelial growth factor treatment in age-related macular degeneration. Dalam *Drug Design, Development and Therapy* (Vol. 7, hlm. 485–490). <https://doi.org/10.2147/DDDT.S43470>
- Veritti, D., Sarao, V., & Lanzetta, P. (2012). Neovascular age-related macular degeneration. *Ophthalmologica*, 227(SUPPL. 1), 11–20. <https://doi.org/10.1159/000337154>
- Volpert, O. v, Fong, T., Koch, A. E., Peterson, J. D., Waltenbaugh, C., Tepper, R. I., & Bouck, N. P. (1998). Inhibition of Angiogenesis by Interleukin 4. Dalam *J. Exp. Med* (Vol. 188, Nomor 6). <http://www.jem.org>
- Wernicke, S. (2003). *On the Algorithmic Tractability of Single Nucleotide Polymorphism (SNP) Analysis and Related Problems*.
- Zandi, S., Nakao, S., Chun, K. H., Fiorina, P., Sun, D., Arita, R., Zhao, M., Kim, E., Schueller, O., Campbell, S., Taher, M., Melhorn, M. I., Schering, A., Gatti, F., Tezza, S., Xie, F., Vergani, A., Yoshida, S., Ishikawa, K., ... Hafezi-Moghadam, A. (2015). ROCK-Isoform-Specific Polarization of

Macrophages Associated with Age-Related Macular Degeneration. *Cell Reports*, 10(7), 1173–1186. <https://doi.org/10.1016/j.celrep.2015.01.050>

Zarbin, M. A. (2004). Current Concepts in the Pathogenesis of Age-Related Macular Degeneration. *Archives of Ophthalmology*, 122(4), 598–614. <https://doi.org/10.1001/archophth.122.4.598>