

Penelitian Departemen IK Mata FKKMK UGM

2021

PENELITIAN ROO

2017 - 2021

Prof. Dr. dr. Agus Supartoto, Sp.M(K)

- **Meningioma**

- Expression of Signal Regulatory Protein Alpha in Orbital Meningioma with Long Term Use of Progesterone Hormonal Contraception
- The HER2 expressions in the serum and tissue of orbitocranial meningioma patients with long-term progesterone exposure
- The Expression of MTOR and PTEN in The Meningioma Patients

- **Graves**

- Changes of Interleukin-6 (IL-6) Level in Tears and Blood Serum in Graves Orbitopathy Before and After Corticosteroid Therapy
- Effectiveness of Combination Intravenous and Oral Methylprednisolone on Graves Ophthalmopathy Moderate-Severe
- Relationship between Thyroid-stimulating hormone receptor antibodies (TRAb) levels with the onset of orbitopathy in patients with grave orbitopathy

Prof. Dr. dr. Agus Supartoto, Sp.M(K)

1. Widyandana, W., Agni, A.N., Supartoto, A., Suhardjo, S., 2015. Exploration of OSCE Results to Evaluate Medical Students Progress on Learning Eye Examination in Clinical Skills Laboratory. *Ophthalmologica Indonesiana*
2. Supartoto, A., Mahayana, I., Christine, R. & Suhardjo, A. 2016. Exposure to exogenous female sex hormones is associated with increased risk of orbito-cranial meningioma in females: a case-control study. *Int J Ophthalmic Pathol* 5, 3, 2.
3. Lassie, N., Supartoto, A., 2016. Progesterone Receptor Expression In Histopathological Subtypes of Benign Orbitocranial Meningiomas. *Ophthalmologica Indonesiana*
4. Rahmawati, F., Supartoto, A., Gunawan, W., Ekantini, R., Prabowo, R. & Mahayana, I.T. 2017. Density and Morphology of Corneal Endothelial Cell after Phacoemulsification using Ringer Lactate versus Balanced Salt Solution as Irrigating Solutions. *International Eye Science*
5. Supartoto, A., Mahayana, I. T., Heriyanto, D. S., Sasongko, M. B., Respatika, H. D., Sakti, D. H., Nurlaila, P. S., Kusnanto, H., Pawiroranu, S. & Haryana, S. M. 2019. Neurofibromatosis type 2 gene mutation and progesterone receptor messenger RNA expression in the pathogenesis of sporadic orbitocranial meningioma. *International journal of ophthalmology*, 12, 571.
6. Supartoto, A., Sasongko, M. B., Respatika, D., Mahayana, I. T., Pawiroranu, S., Kusnanto, H., Sakti, D. H., Nurlaila, P. S., Heriyanto, D. S. & Haryana, S. M. 2019. Relationships Between Neurofibromatosis-2, Progesterone Receptor Expression, the Use of Exogenous Progesterone, and Risk of Orbitocranial Meningioma in Females. *Frontiers in Oncology*, 8.
7. Supartoto, A., Ayuningtyas, A. N., Dibyasakti, B. A., Utomo, P. T., Respatika, D. & Sasongko, M. B. 2019. The eyelid tumor in Yogyakarta, Indonesia. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 51, 229-236.
8. Supartoto, A., Djaja, M. S., Heriyanto, D. S., Soetristi, E., Respatika, D. & Sasongko, M. B. 2019. The predictive factor for conjunctival melanoma recurrence. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 51, 351-357.
9. Supartoto, A., Nawunghartanti, S., Dibyasakti, B. A., Utomo, P. T., Respatika, D. & Sasongko, M. B. 2020. The risk factor of metastatic status of retinoblastoma patient in Yogyakarta Tertiary Hospital. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 52, 9-16.

dr. Purjanto Tepo Utomo, Sp.M(K)

- **Retinoblastoma**

- Expression of Ki-67 as a Proliferation Biomarker of Intraocular Stage and Local Invasion Retinoblastoma
- Correlation of TAZ Expression as a Biomarker to Clinical Condition in Retinoblastoma Patients
- Expression of Pd-L1 as a Body Marker on Intraocular Clinical Retinoblastoma Stadium and Local Invasions

dr. Purjanto Tepo Utomo, Sp.M(K)

1. Nuady, A., Utomo, P.T. and Widyandana, W., 2016. The Prediction of Visual Acuity after Open Globe Injury in Children Using Pediatric Ocular Trauma Score (POTS). *Ophthalmologica Indonesiana*, 42(3).
2. Shinta, A.N., Utomo, P.T. and Supartoto, A., 2018. Intraorbital Wooden Foreign Body with Intracranial Extension: A Case Report. *Ophthalmologica Indonesiana*, 44(1), pp.4-4.
3. Supartoto, A., Ayuningtyas, A. N., Dibyasakti, B. A., Utomo, P. T., Respatika, D. & Sasongko, M. B. 2019. The eyelid tumor in Yogyakarta, Indonesia. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 51, 229-236.
4. Supartoto, A., Djaja, M. S., Heriyanto, D. S., Soetristi, E., Respatika, D. & Sasongko, M. B. 2019. The predictive factor for conjunctival melanoma recurrence. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 51, 351-357.
5. Supartoto, A., Nawunghartanti, S., Dibyasakti, B. A., Utomo, P. T., Respatika, D. & Sasongko, M. B. 2020. The risk factor of metastatic status of retinoblastoma patient in Yogyakarta Tertiary Hospital. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 52, 9-16.

dr. Datu Respatika, Ph.D

- **Retinoblastoma**

- Expression Signal Regulatory Protein Alpha in the Progression of Retinoblastoma
- Reliability of smartphone application for leukocoria detection

- **Graves**

- Oral vs Intravenous Corticosteroids: The Influence of Thyroid Status in Graves Ophthalmopathy Treatment

- **Meningioma**

- The Effect of Exogenous Progesterone on the NF-2 and Progesterone Receptor Expression on the Serum

dr. Datu Respatika, Ph.D

1. Respatika, D., Mahayana, I. T., Puspita, D., Ilyasa, G. & Supartoto, A. 2020. COVID-19 eye infection: recommendations for ophthalmologist and patients. *Journal of Community Empowerment for Health*, 3, 141-146.
2. Nishimura, T., Saito, Y., Washio, K., Komori, S., Respatika, D., Kotani, T., Murata, Y., Ohnishi, H., Mizobuchi, S. & Matozaki, T. 2020. SIRP α on CD11c+ cells induces Th17 cell differentiation and subsequent inflammation in the CNS in experimental autoimmune encephalomyelitis. *Eur. J. Immunol.*
3. Supartoto, A., Hartanti, S. N., Dibyasakti, B. A., Utomo, P. T., Respatika, D. & Sasongko, M. B. 2020. The risk factor of metastatic status of retinoblastoma patient in Yogyakarta Tertiary Hospital. *J. Med. Sci.*, 52.
4. Komori, S., Saito, Y., Respatika, D., Nishimura, T., Kotani, T., Murata, Y. & Matozaki, T. 2019. SIRP α + dendritic cells promote the development of fibroblastic reticular cells in murine peripheral lymph nodes. *Eur. J. Immunol.*, 49, 1364-1371.
5. Supartoto, A., Ayuningtyas, A. N., Dibyasakti, B. A., Utomo, P. T., Respatika, D. & Sasongko, M. B. 2019a. The eyelid tumor in Yogyakarta, Indonesia. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 51, 229-236.
6. Supartoto, A., Mahayana, I. T., Heriyanto, D. S., Sasongko, M. B., Respatika, H. D., Sakti, D. H., Nurlaila, P. S., Kusnanto, H., Pawiroranu, S. & Haryana, S. M. 2019b. Neurofibromatosis type 2 gene mutation and progesterone receptor messenger RNA expression in the pathogenesis of sporadic orbitocranial meningioma. *International journal of ophthalmology*, 12, 571.
7. Supartoto, A., Sasongko, M. B., Respatika, D., Mahayana, I. T., Pawiroranu, S., Kusnanto, H., Sakti, D. H., Nurlaila, P. S., Heriyanto, D. S. & Haryana, S. M. 2019c. Relationships Between Neurofibromatosis-2, Progesterone Receptor Expression, the Use of Exogenous Progesterone, and Risk of Orbitocranial Meningioma in Females. *Front. Oncol.*, 8, 651.
8. Respatika, D., Saito, Y., Washio, K., Komori, S., Kotani, T., Okazawa, H., Murata, Y. & Matozaki, T. 2017. Role of SIRP α in Homeostatic Regulation of T Cells and Fibroblastic Reticular Cells in the Spleen. *Kobe J. Med. Sci.*, 63, E22.
9. Saito, Y., Respatika, D., Komori, S., Washio, K., Nishimura, T., Kotani, T., Murata, Y., Okazawa, H., Ohnishi, H. & Kaneko, Y. 2017. SIRP α + dendritic cells regulate homeostasis of fibroblastic reticular cells via TNF receptor ligands in the adult spleen. *Proceedings of the National Academy of Sciences*, 114, E10151-E10160.
10. Washio, K., Kotani, T., Saito, Y., Respatika, D., Murata, Y., Kaneko, Y., Okazawa, H., Ohnishi, H., Fukunaga, A. & Nishigori, C. 2015. Dendritic cell SIRP α regulates homeostasis of dendritic cells in lymphoid organs. *Genes Cells*, 20, 451-463.

List Penelitian 2021

dr. Supanji, SpM(K), M.Kes, PhD

Depart. Ilmu Kesehatan Mata

FKKMK UGM

JUDUL PROPOSAL PENELITIAN

1. “Biomarker Genomik dan Proteomik Sebagai Penanda Keberhasilan Terapi Penyakit” (PTUPT)
2. “Skrining Biomarker Inflamasi pada PBMC Penderita AMD di Yogyakarta” (RTA)
3. “Polimorfisme Gen Vascular Endothelial Growth Factor (VEGF) Pasien AMD” (Damas :Penelitian Dosen-Mahasiswa S1)
4. “Analisis Genetika Komprehensif untuk Deteksi Marker Diagnostik Pasien Retinitis Pigmentosa dengan Whole Genome Sequencing” (DAMAS : Hibah Pengembangan Proposal Multidisipliner)
5. “Subtitusi Indocyanine Green Angiography (ICGA) diagnosis Polypoidal Choroidal Vasculopathy (PCV) menggunakan marka genetik dan proteomik FGD6” (Damas Skema Hibah PPDS)
6. “Studi Retrospektif pasien AMD di Yogyakarta” (Pendanaan Sardjito)

JUDUL PROPOSAL PENELITIAN

7. Skrining marka genomik dan proteomik pasien AMD Sebagai Penanda Keberhasilan Terapi (PTUPT thn 2018)
8. Single Nucleotide Polymorphism (SNP) dari Complement Factor H (CFH) dan Respon Terapi Pasien Age-Related Macular Degeneration (AMD) Terhadap Injeksi Anti-VEGF Intravitreal (Dana Sardjito thn 2017)
9. Pengaruh Farmakogenetik HtrA1 dan ARMS terhadap Efikasi Terapi Anti-VEGF Intravitreal pada Penyakit WetAge-Related Macular Degeneration (Wet AMD) (DAMAS Pasca doctoral thn 2017)

Publikasi Jurnal

- *HtrA1 serine-protease expression levels of Age-related Macular Degeneration (AMD) patients in Yogyakarta (2020)*
- Smoking as a Risk Factor for rs10490924 Variant Age-related Macular Degeneration in Yogyakarta, Indonesia (2020)
- Associations of *ARMS2* and *CFH* Gene Polymorphisms with Neovascular Age-Related Macular Degeneration (2020)

Penelitian dr. MBS

RESEARCH EXPERIENCE

2017 – 2019	Principal Investigator, Development of Rapid Assessment of Diabetic Retinopathy system for Rural Indonesia
2017 – 2019	Co-Principal Investigator, Development of Novel Radial Relaxing Retinectomy for Advanced Stage of Retinal Detachment
2017 – 2019	Co-Principal Investigator, Development of Stem Cell Therapy for Retinitis Pigmentosa
2015 – 2019	Co-Principal Investigator, Genetic and Pharmacogenetic Study of AMD in Indonesia
2013 – 2017	Principal Investigator, Development of New Diabetic Retinopathy Screening System in Indonesia using Tele-Ophthalmology Programme, in Collaboration with Hellen-Keller International
2013 – 2017	Principal Investigator, The Jogjakarta Eye Diabetic Study in the Community (JOGED.COM)
2013 – 2016	Principal Investigator, Gene-Environmental Study on the Link between Exogenous Contraceptive Hormones and Incidence of Orbitocranial Meningioma among Indonesian Females

RESEARCH EXPERIENCE

2012 – 2013	Co-Principal Investigator, National Health and Examination Survey on Blindness and Visual Impairment in Indonesia
2007 – 2011	Investigator, Identifying Novel Retinal Vascular Geometry in Persons with Diabetes and Diabetic Retinopathy
2007 – 2008	Co-Principal Investigator, Population-based Study of the Epidemiology of Myopia in Jogjakarta, Indonesia
2004 – 2005	Associate Investigator/ Project Manager, Multi-Center Surveillance and Strain Characterization of Rotavirus diarrhoea in Indonesia, Collaboration between Faculty of Medicine UGM, CDC Atlanta, and PATH
2004 – 2006	Associate Investigator/ Project Manager, A Randomized, Double Blind, Controlled Study to Determine the Protective efficacy of Orally Administered Infant Formula Containing Bovine Antibodies to Human Rotavirus, Collaboration between Faculty of Medicine UGM and NUMICO Research Center, Australia

Publications

Sasongko MB, Wong TY, Wang JJ. Retinal Arteriolar Changes: Intermediate Pathways Linking Early Life Exposures to Cardiovascular Disease?. Microcirculation 2010; 17:21 – 31

Sasongko MB, Wang JJ, Donague KC, et al. Alterations in Retinal Microvascular Geometry in Young Type 1 Diabetes. Diabetes Care 2010; 33: 1331 – 1336

Sasongko MB, Wong TY, Nguyen TT, Jenkins AJ, Kawasaki R, Shaw JS, Wang JJ. Serum Apolipoproteins AI and B are Stronger Biomarkers for Diabetic Retinopathy than Traditional Lipids. Diabetes Care 2011; 34: 474 – 479 (with editorial)

Benitez-Aguirre P, Craig M, Sasongko MB, Jenkins AJ, Wong TY, Wang JJ, Cheung N, Donaghue KC. Retinal Vascular Geometry Predicts Incident Retinopathy in Young Persons with Type 1 Diabetes: A Prospective Longitudinal Study from Adolescence. Diabetes Care 2011; 34(7):1622 – 1627.

Sasongko MB, Wong TY, Nguyen TT, Cheung CY, Shaw JE, Wang JJ. Retinal Vascular Tortuosity in Persons with Diabetes and Diabetic Retinopathy. Diabetologia 2011; 54(9): 2409 – 2416.

Publications

Benarous R, Sasongko MB, Qureshi S, Fenwick E, Dirani M, Wong TY, Lamoureaux EL. Differential Associations of Serum Lipids with Diabetic Retinopathy and Diabetic Macular Edema. *Invest Ophthalmol Vis Sci* 2011; 52 (10): 7464 – 7469.

Serre K, Sasongko MB. Modifiable Lifestyle and Environmental Risk Factors Affecting the Retinal Microcirculation. *Microcirculation* 2012; 19(1): 29 – 36.

Benitez-Aguirre P, Sasongko MB, Craig M, Jenkins AJ, Wong TY, Wang JJ, Cheung N, Donaghue KC. Retinal Vascular Geometry Predicts and Early Nephropathy in Young Persons with Type 1 Diabetes: A Prospective Longitudinal Study. *Diabetes Care* 2012; 35(3): 599 – 604.

Sasongko MB, Wong TY, Donaghue KC, Cheung N, Aguirre PB, Jenkins A, Hsu W, Lee ML, Wand JJ. Retinal Arteriolar Tortuosity is associated with Microvascular Complications in Type 1 Diabetes. *American Journal of Ophthalmology* 2012; 153(1): 176 – 183.

Publications

Sasongko MB, Wong TY, Nguyen TT, Shaw JE, Wang JJ. Novel versus Traditional Risk Markers for Diabetic Retinopathy. *Diabetologia* 2012; 55(3): 666 – 670.

Sasongko MB, Wong TY, Nguyen TT, Kawasaki R, Alicia J, Shaw JE, Robinson C, Wang JJ. Serum Apolipoproteins are Associated with Systemic and Retinal-specific Microvascular Function. *Diabetes* 2012; 61(7): 1785 – 1792.

Sasongko MB, Hodgson LAB, Kawasaki R, Wang JJ, Hsu W, Lee ML, Lau QP, Wong TY. Correlation and Reproducibility of Semi-Automated Retinal Vascular Geometric Measurements within Paired Stereoscopic Images. *Ophthalmic Epidemiology* 2012; 19(5): 322 – 327.

Man EK, Sasongko MB, Sanmugasundram S, Nicolau TE, Xie J, Wang JJ, Wong TY, Lamoureux EL. Axial Myopia is Protective of Severe Diabetic Retinopathy. *Ophthalmology* 2012; 119 (9): 1754 – 1759

Hao H, Sasongko MB, Wong TY, Che Azemin MZ, Aliahmad B, Hodgson L, Kawasaki R, Cheung CY, Wang JJ, Kumar DK. Does retinal vascular geometry vary with cardiac cycle? *Invest Ophthalmol Vis Sci*. 2012 Aug 24;53(9):5799-805

Publications

Man RE, Sasongko MB, Wang JJ, Lamoureux EL. [Association between myopia and diabetic retinopathy: a review of observational findings and potential mechanisms.](#) *Clinical and Experimental Ophthalmology* 2013; 41(3):293 – 301.

Man RE, Sasongko MB, Lamoureux EL. Author reply: Effect of axial length on diabetic retinopathy. *Ophthalmology* 2013; 120(4): 877

Man RE, Sasongko MB, Xie J, Best WJ, Noonan JE, Lo TC, Wang JJ, Luu CD, Lamoureux EL. Decreased retinal capillary flow is not a mediator of the protective myopia-diabetic retinopathy relationship. *Invest Ophthalmol Vis Sci* 2014; 55: 6901-7.

Sasongko, M. B., Wong, T. Y., Jenkins, A. J., Nguyen, T. T., Shaw, J. E. and Wang JJ. Circulating markers of inflammation and endothelial function, and their relationship to diabetic retinopathy. *Diabet Med* 2015; 32(5): 686-91.

Sasongko MB, Wong TY, Nguyen TT, Cheung CY, Shaw JE, Kawasaki R, Lamoureux EL, Wang JJ. Retinal Vessel Tortuosity and Its Relation to Traditional and Novel Vascular Risk Markers in Persons with Diabetes. *Curr Eye Res* 2016; 19: 1-7.

Publications

Man RE, Sasongko MB, Wang JJ, MacIsaac R, Wong TY, Sabanayagam C, Lamoureux EL. The Association of Estimated Glomerular Filtration Rate With Diabetic Retinopathy and Macular Edema. *Invest Ophthalmol Vis Sci* 2015; 56(8): 4610-6

Man RE, Sasongko MB, Wang JJ, Lamoureux EL. Author response: retinal capillary flow and diabetic retinopathy. *Invest Ophthalmol Vis Sci* 2015; 56(3): 2002.

Sasongko MB, Agni AN, Wardhana FS, Kotha S, Gupta P, Widayanti TW, Supanji, Widyaputri F, Widyaningrum R, Wong TY, Kawasaki R, Wang JJ. Rationale and Methodology for a Community-Based Study of Diabetic Retinopathy in an Indonesian Population with Type 2 Diabetes Mellitus: the Jogjakarta Eye Diabetes Study in the Community (JOGED.COM). *Ophthalmic Epidemiology* 2017; 24(1): 48 - 56.

Sasongko MB, Widyaputri F, Agni AN, Wardhana FS, Kotha S, Gupta P, Widayanti TW, Haryanto S, Widyaningrum R, Wong TY, Kawasaki R, Wang JJ. Prevalence of Diabetic Retinopathy and Blindness in Indonesian Adults with Type 2 Diabetes. *Am J Ophthalmol* 2017; 181: 79–87.

Publications

Dharmastuti DP, Agni AN, Widyaputri F, Pawiroranu S, Sofro ZM, Wardhana FS, Haryanto S, Widayanti TW, Kotha S, Gupta P, Sasongko MB. Associations of Physical Activity and Sedentary Behaviour with Vision-Threatening Diabetic Retinopathy in Indonesian Population with Type 2 Diabetes Mellitus: Jogjakarta Eye Diabetic Study in the Community (JOGED.COM). *Ophthalmic Epidemiology* 2018; 25(2):113-119.

Adiarti R, Ekantini R, Agni AN, Wong TY, Sasongko MB. Retinal Arteriolar Narrowing in Young Adults with Glaucomatous Optic Disc. *J of Glaucoma* 2018; 27(8): 699-702.

Sasongko MB, Widyaputri F, Sulistyoningrum DC, Wardhana FS, Widayanti TW, Supanji S, Widyaningrum R, Indrayanti SR, Widhasari IA, Agni AN. Estimated Resting Metabolic Rate and Body Composition Measures Are Strongly Associated With Diabetic Retinopathy in Indonesian Adults With Type 2 Diabetes. *Diabetes Care* 2018; 41(11): 2377 – 2384.

Supartoto A, Sasongko MB, Respatika D, Mahayana IT, Pawiroranu S, Kusnanto H, Sakti DH, Nurlaila PS, Heriyanto DS, Haryana SM. Relationships Between Neurofibromatosis-2, Progesterone Receptor Expression, the Use of Exogenous Progesterone, and Risk of Orbitocranial Meningioma in Females. *Front Oncol* 2019; 8: 651

dr. Indra Tri Mahayana, Ph.D, Sp.M

- Automated Preferential Looking testing
- Analisis Akurasi Pemeriksaan Preferential Looking dengan Hemispatial Gabor Patch pada Anak Usia 3-5 Tahun
 - Hubungan Visual Acuity dan Spherical Equivalent terhadap Persentase Kontras Sensitivitas pada Pemeriksaan Preferential Looking dengan Hemispatial Gabor Patch Berbasis Komputer pada Anak Prasekolah
 - Perbandingan Tajam Penglihatan Antara Gabor Patch Preferential Looking Berbasis Komputer Dengan Lea Symbols Pada Anak Pra Sekolah
- Automated Contrast Sensitivity Testing
- The Association between Objective Refraction and Gabor Patch Contrast Sensitivity Testing in Preschool Children

1. **Indra T Mahayana**, Chia-Lun Liu, Chi Fu Chang, Daisy L Hung, Ovid JL Tzeng, Chi-Hung Juan and Neil G Muggleton. (2014). "Far space neglect in conjunction but not feature search following transcranial magnetic stimulation over right posterior parietal cortex". *Journal of Neurophysiology* (Impact factor: 3.32). doi: 10.1152/jn.00492.2013
2. **Indra T Mahayana**, Dwi C.R. Sari, Chi-Hung Juan and Neil G Muggleton. (2014). "The potential of Transcranial Magnetic Stimulation for population based application: a region based illustrated brief overview". *International Journal of Neuroscience* (Impact factor: 1.216). doi:10.3109/00207454.2013.872641
3. **Indra T Mahayana**, Michael J Banissy, Chiao-Yun Chen, Vincent Walsh, Chi-Hung Juan and Neil G Muggleton. (2014). "Motor empathy is a consequence of misattribution of sensory information in observers". *Frontiers in Human Neuroscience* (Impact factor: 2.9). doi: 10.3389/fnhum.2014.00047
4. **Indra T Mahayana**, Lili Tcheang, Chiao-Yun Chen, Chi-Hung Juan and Neil G Muggleton. (2014). "The precuneus and visuospatial attention in near and far space: a transcranial magnetic stimulation study". *Brain Stimulation* (Impact factor: 5.432). doi: 10.1016/j.brs.2014.06.012
5. **Indra T Mahayana**, Hartono, Lili Tcheang, Chiao-Yun Chen, Chi-Hung Juan and Neil G Muggleton. (2014). "Posterior parietal cortex and visuospatial control in near and far space". *Translational Neuroscience* (Impact factor: 0.716). doi: 10.2478/s13380-014-0229-3
6. **Indra T Mahayana**, Chiao-Yun Chen, Chi-Hung Juan and Neil G Muggleton. (2015). [abstract] "The parietal cortex, space and brain stimulation". *Brain Stimulation* (Impact factor: 5.432).
7. Agus Supartoto, **Indra Tri Mahayana**, Reinne Natali Christine, Suhardjo, Angela Nurini Agni and Muhammad Bayu Sasongko. 2016. "Exposure to Exogenous Female Sex Hormones is Associated with Increased Risk of Orbito-Cranial Meningioma in Females: A Case-Control Study". *International Journal of Ophthalmic Pathology*
8. Suhardjo, Dede Neni Herani, Reny Setyoati, **Indra Tri Mahayana**. (2016) "Outcomes of Corneal Collagen Cross Linking prior to Photorefractive Keratectomy in Prekeratoconus". *Journal of Research Hospital*
9. - **Indra Tri Mahayana**, Tatang Talka Gani, Neil G. Muggleton (2017). The potential application of transcranial magnetic stimulation in ophthalmology: a brief perspective. *Annals of Research Hospitals*.
10. - **Mahayana, I.T.**, Indrawati, S.G. and Pawiroranu, S., 2017. The prevalence of uncorrected refractive error in urban, suburban, exurban and rural primary school children in Indonesian population. *International journal of ophthalmology*, 10(11), p.1771.
11. Goenawan, K., **Mahayana, I.T.**, Gani, T.T. and Hartono, H., 2017. Atypical Anterior Optic Neuritis Resembles Anterior Ischemic Optic Neuropathy: A Unique Case Report. *Ophthalmologica Indonesiana*, 43(2), pp.108-108.
12. - Rahmawati F, Supartoto A, Gunawan W, Ekantini R, Prabowo R, **Mahayana IT**. Density and morphology of corneal endothelial cell after phacoemulsification using Ringer lactate versus balanced salt solution as irrigating solutions. *Guoji Yanke Zazhi (Int Eye Sci)* 2018;18(2):207-212,doi:10.3980/j.issn.1672-5123.2018.2.02

13. Erlangga, M.D., **Mahayana, I.T.**, Fachiroh, J., Agni, A.N., Supartoto, A. and Pawiroranu, S., 2018. Changes in interleukin-6 tear concentration and clinical outcome in moderate-to-severe bacterial corneal ulcers after corneal collagen cross-linking. *International journal of ophthalmology*, 11(8), p.1421.
14. Supartoto, A., Sasongko, M.B., Respatika, D., **Mahayana, I.T.**, Pawiroranu, S., Kusnanto, H., Sakti, D.H., Nurlaila, P.S., Heriyanto, D.S. and Haryana, S.M., 2018. Relationships Between Neurofibromatosis-2, Progesterone Receptor Expression, the Use of Exogenous Progesterone, and Risk of Orbitocranial Meningioma in Females. *Frontiers in oncology*, 8.
15. - **Mahayana, I.T.**, Gani, T.T. and Pawiroranu, S. 2019. The awareness of blindness related to misuse of illicit liquor containing methanol: A community study. *Journal of Community Empowerment for Health*, 1(1).
16. **Mahayana, I.T.**, Setyowati, R., Winarti, T. and Prawiroranu, S. 2019. Outcomes of manual Small Incision Cataract Surgery (mSICS) compared with phacoemulsification from population based outreach eye camp, in Yogyakarta and Southern Central Java Region, Indonesia. *Journal of Community Empowerment for Health*, 1(1).
17. Supartoto, A., **Mahayana, I. T.**, Heriyanto, D. S., Sasongko, M. B., Respatika, H. D., Sakti, D. H., ... Haryana, S. M. (2019). Neurofibromatosis type 2 gene mutation and progesterone receptor messenger RNA expression in the pathogenesis of sporadic orbitocranial meningioma. *International journal of ophthalmology*, 12(4), 571–576. doi:10.18240/ijo.2019.04.07
18. Winarti, T., **Mahayana, I. T.**, Setyowati, R., & Pawiroranu, S. Perbandingan komplikasi antara fakoemulsifikasi dan manual Small-Incision Cataract Surgery (mSICS) pada operasi katarak massal: Sebuah penelitian kohort retrospektif. *Journal of Community Empowerment for Health*, 2(1)
19. Setyowati, R., **Mahayana, I. T.**, Winarti, T., & Pawiroranu, S. Angka kejadian miopia pada anak usia sekolah dasar di Kecamatan Banjararum Kabupaten Kulon Progo, Daerah Istimewa Yogyakarta. *Journal of Community Empowerment for Health*, 2(1).
20. Sakti, D. H., **Mahayana, I. T.**, Wardhana, F. S., Nafisha, D. F., Firman, D. A., Handayani, N., & Utami, T. P. (2018). Patient's Perspective of Eye Service Quality in Yogyakarta's Teaching Hospital. *Ophthalmologica Indonesiana*, 44(2), 73-73.
21. Ika Nurajita, Wasidi Gunawan, Retno Ekantini, Rinanto Prabowo, Suhardjo Pawiroranu, Agus Supartoto, **Indra Tri Mahayana**. 双氯芬酸与奈帕芬胺在白内障术后抗炎疗效比较. *国际眼科杂志* (Differences in pain and inflammation between Diclofenac 0.1% and Nepafenac 0.1% after cataract surgery) 2019;19(5):719-723, doi:10.3980/j.issn.1672-5123.2019.5.03
22. Lahagu, E.A., Fachiroh, J., Anugrah, A.S., Gunawan, W. and **Mahayana, I.T.**, 2020. Changes of lactate dehydrogenase in corneal edema after cataract surgery treated with trans-corneal oxygenation therapy. *International Journal of Ophthalmology*, 13(7), p.1148.
23. **Mahayana, I.T.**, Angsana, N.C., Kamila, A., Fatiha, N.N., Sunjaya, D.Z., Andajana, W. and Suhardjo, S., Literature review of conjunctivitis, conjunctival swab and chloroquine effect in the eyes: A current updates on COVID-19 and ophthalmology. *Journal of the Medical Sciences (Berkala ilmu Kedokteran)*, 2020. 52(3).
24. **Mahayana, I.T.**, Angsana, N.C., Ayyasy, M.Z., Hutajulu, A.S. and Suhardjo, S., Ocular involvement of coronavirus disease (covid-19): A systematic review of conjunctival swab results. *Journal of Community Empowerment for Health*, 2020, 3(2).
25. Respatika, D., **Mahayana, I.T.**, Puspita, D., Ilyasa, G. and Supartoto, A., COVID-19 eye infection: recommendations for ophthalmologist and patients. *Journal of Community Empowerment for Health*, 2020. 3(2), pp.141-146.
26. **Indra Tri Mahayana**, Andreas Surya Anugrah, Ika Kartika, Natalia Christina Angsana, Tatang Talka Gani. Optic neuritis as the ocular manifestation of dengue infection: a case report. *Malaysian Journal of Ophthalmology*. 2021