DAFTAR PUSTAKA

Agarwal A. Corneal Topography. Edisi ke-3. India : Jaypee Brothers Medical Publishers; 2015.

Ahmedi ML, Belguendouz H, Messaoudene D, et al. Influence of steroid hormones on the production of two inflammatory markers, IL-12 and nitric oxide, in Behçet's disease. *J Fr Ophthalmol*, 39: 333-340, 2016. [PubMed] [Google Scholar]

Ambati BK, Nozaki M, Singh N, et al. Corneal avascularity is due to soluble VEGF receptor-1. *Nature*. 2006;443(7114):993–997.

American Academy of Ophthalmology. *Structure and Function of theExternal Eye and Cornea. External Disease and Cornea.* American Academy ofOphthalmology, 2019. San Francisco, CA

Allam, R.S.H.M., Khalil, N.M.M.M., 2015. Evaluation of sex differences in corneal hysteresis. Eur. J. Ophthalmol. 25, 391–395. https://doi.org/10.5301/ejo.5000572

Al-Taan, Saief Laith Muhamed. "Characterisations of Pre-Descemet's (Dua's) layer for its clinical application in keratoplasty." (2018).

Aydin, E., Demir, H.D., Demirturk, F., Caliskan, A.C., Aytan, H., Erkorkmaz, U., 2007. Corneal topographic changes in premenopausal and postmenopausal women. BMC Ophthalmol. 9, 1–4. https://doi.org/10.1186/1471-2415-7-9

Buggage RR, Matteson DM, Shen DF, et al. Effect of sex hormones on experimental autoimmune uveoretinitis(EAU). *Immunol Invest*, 32: 259-73, 2003. [PubMed] [Google Scholar]

Çakmak, H., Taspinar, A., Ozbagcivan, M., Kocatürk, T., 2015. Ocular biometric characteristics during the menstrual cycle. Clin. Ophthalmol. 9, 1177–1180. https://doi.org/10.2147/OPTH.S85160

Cavdar, E., Ozkaya, A., Alkin, Z., Ozkaya, H.M., Babayigit, M.A., 2014. Changes in tear film, corneal topography, and refractive status in premenopausal women during menstrual cycle. Contact Lens Anterior Eye 37, 209–212. https://doi.org/10.1016/j.clae.2013.11.005

Chan CC, Reed GF, Kim Y, et al. A correlation of pregnancy term, disease activity, serum female hormones, and cytokines in uveitis. *British journal of ophthalmology*, 88: 1506-1509, 2004. [PMC free article] [PubMed] [Google Scholar]

Colorado, L.H., Edwards, K., Dinh, L. *et al.* Associations between the menstrual cycle, lifestyle factors and clinical assessment of the ocular surface: a prospective observational study. *BMC Women's Health* 20**,** 23 (2020). https://doi.org/10.1186/s12905-020-0894-z

Corbett M, Maycock N, Rosen E, O'Brart D. Corneal Topography Principles and Applications. Edisi ke-2. Switzerland: Springer; 2019. Hlm.3-94.]

de Figueiredo, B.G.D., Rezende, M.T.C., Dos Santos, N.A., de Andrade, M.J.O., 2021. Mapping changes in women's visual functions during the menstrual cycle: Narrative review. Sao Paulo Med. J. 139, 662–674. https://doi.org/10.1590/1516-3180.2020.0474.R2.03052021

Del Monte DW, Kim T. Anatomy and physiology of the cornea. *J Cataract Refract Surg*. 2011;37(3):588–598.Academic stress and menstrual disorders among female undergraduates in Uyo, South Eastern Nigeria - the need for health education.

Deschenes MC, Descovich D, Moreau M, et al.Postmenopausal hormone therapy increses retinal blood flow and protects the retinal nerve fiber

layer. *Investigative ophthalmology & physiology and pharmacology*, 51: 2587-2600, 2010. [PubMed] [Google Scholar]

Draper, C.F., Duisters, K., Weger, B. *et al.* Menstrual cycle rhythmicity: metabolic patterns in healthy women. *Sci Rep* **8,** 14568 (2018). https://doi.org/10.1038/s41598-018-32647-0

Dua HS, Faraj LA, Said DG, Gray T, Lowe J. Human corneal anatomy redefined: A novel pre-descemet's layer (Dua's layer) *Ophthalmology.* 2013;120:1778–85. [PubMed] [Google Scholar]

Ekpenyong CE, Davis KJ, Akpan UP, Daniel NE Niger J Physiol Sci. 2011 Dec 20; 26(2):193-8.

Fahmy RM. Correlation between Anthropomorphic Measurements and Ocular Parameters among Adult Saudi Females. Austin J Clin Ophthalmol. 2016; 3(2): 1070.

Fraser IS, Critchley HO, Broder M, Munro MG. The FIGO recommendations on terminologies and definitions for normal and abnormal uterine bleeding. *Semin Reprod Med.* 2011;29(5):383–90. doi: 10.1055/s-0031-1287662

Fortepiani, L. and Foutch, B. K. (2021) 'Foveal Thickness : A Descriptive Analysis'.

Fortepiani, L., Foutch, B. K. and Wilson, M. R. (2021) 'The Effects of Sex, Oral Contraception, and Menstrual Cycle Phase on Intraocular Pressure, Central Corneal Thickness, and Foveal Thickness: A Descriptive Analysis', Vision, 48(5), pp. 1–15.

Gans LA, Lee SF, Lemp MA, Pepose JS. Estrogen and progesterone receptors and human conjunctiva. Am J Ophthalmol. 1990;109:474–477.

Ghahfarokhi, Negar Amiri, Vaseghi, A., Ghahfarokhi, Negin Amiri, Ghoreishi, M., Peyman, A., Dehghani, A., 2015. Evaluation of corneal thickness alterations during menstrual cycle in productive age women. Indian J. Ophthalmol. 63, 30–32. https://doi.org/10.4103/0301-4738.151463

Giuffrè, G. et al. (2007) 'Variations in central corneal thickness during the menstrual cycle in women', Cornea, 26(2), pp. 144–146.

Giuffrè, G., Di Rosa, L. and Fiorino, F. (2006) 'Changes in colour discrimination during the menstrual cycle', Ophthalmologica, 221(1), pp. 47–50. doi: 10.1159/000096522.

Goldich, Y., Barkana, Y., Pras, E., Fish, A., Mandel, Y., Hirsh, A., Tsur, N., Morad, Y., Avni, I., Zadok, D., 2011. Variations in corneal biomechanical parameters and central corneal thickness during the menstrual cycle. J. Cataract Refract. Surg. 37, 1507–1511. https://doi.org/10.1016/j.jcrs.2011.03.038

Guo, L., Zhu, C., Wang, Z., Gao, Z., Zhang, Z., Pan, Q., 2021. Retinal Vascular Changes during the Menstrual Cycle Detected with Optical Coherence Tomography Angiography. J. Ophthalmol. 2021. https://doi.org/10.1155/2021/5514575

Gupta PD, Johar K Sr, Nagpal K, Vasavada AR. Sex hormone receptors in the human eye. Surv Ophthalmol. 2005 May-Jun;50(3):274-84. doi: 10.1016/j.survophthal.2005.02.005. PMID: 15850816.

Hall, John E.. *Guyton and Hall: Textbook of Medical Physiology*. 13th ed. Philadelpia,PA: Elsevier, 2016. Text.

Handa, T. et al. (2002) 'Diurnal variation of human corneal curvature in young adults', Journal of Refractive Surgery. Slack Incorporated Thorofare, NJ, pp. 58–62.

Hashemi, H., Mehravaran, S., Rezvan, F., 2010. Changes in corneal thickness, curvature, and anterior chamber depth during the menstrual cycle. Can. J. Ophthalmol. 45, 67–70. https://doi.org/10.3129/i09-222

Hjortdal JO. Regional elastic performance of the human cornea. *J Biomech*. 1996;29(7): 931–942.

Houghton SC, Manson JE, Whitcomb BW, et al., "Carbohydrate and fiber intake and the risk of premenstrual syndrome," *European Journal of Clinical Nutrition*, vol. 72, no. 6, pp. 861–870, 2018. View at: Publisher Site | Google Scholar

Inokuchi N, Ikeda T, Nakamura K, et al. Vitreous estrogen levels in patient with an idiopathic macular hole. *Clin Opthalmol*, 9: 549-552, 2015. [PMC free article] [PubMed] [Google Scholar]

Irianni F, Hodgen GD. Mechanism of ovulation. Endocrinology and Metabolism Clinics of North America. 1992;21(1):19-38. DOI: 10.1016/S0889-8529(18)30230-5

Iyamu, E., Osuobeni, E., 2012. Age, gender, corneal diameter, corneal curvature and central corneal thickness in Nigerians with normal intra ocular pressure. J. Optom. 5, 87–97. https://doi.org/10.1016/j.optom.2012.02.001

Kajiwara A, Miyagawa H, Saruwatari J, et al. 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: e7-10, 2014. [PubMed] [Google Scholar]

Kazama S, Kazama JJ, Ando N. Eye diseases in women. *Fukushima J Med Sci*. 2019;65(2):30-36. doi:10.5387/fms.2019-01

Kiely, P.M., Carney, L.G., Smith, G., 1983. Menstrual cycle variations of corneal topography and thickness. Am. J. Optom. Physiol. Opt. 60, 822–829Majo F, Rochat A, Nicolas M, Jaoude GA, Barrandon Y. Oligopotent stem cells are distributed throughout the mammalian ocular surface. *Nature*. 2008;456(7219):250–254.

Kilavuzoglu AE, Cosar CB, Bildirici I, Cetin O, Ozbasli E. Estrogen-and progesterone-induced variation in corneal parameters according to hormonal status. Eye & Contact Lens. 2018 Sep 1;44:S179-84.

Kurtul, B.E., Inal, B., Ozer, P.A., Kabatas, E.U., 2016. Impact of oral contraceptive pills on central corneal thickness in young women. Indian J. Pharmacol. 48, 665–668. https://doi.org/10.4103/0253-7613.194860

Maric-Bilkan, Sex differences in macro- and micro-vascular complications of diabetes mellitus. *Clin Sci (Lond)*, 131: 833-846, 2017. [PubMed] [Google Scholar]

Mathur N. Effectiveness of exercise in menstruation symptoms in late adolescents (17-20 years of age). International Journal of Science & Healthcare Research. 2020; 5(2): 5-11.

McCannel CA, Ensminger JL, Diehl NN, et al. Population based incidence of macular holes. *Opthalmology*, 116: 1366-1369, 2009. [PMC free article] [PubMed] [Google Scholar]

Mishra, D., Bhushan, P., Sachan, S., Singh, M.K., Jayadev, C., Kusumgar, P., 2020. Variations in the central corneal thickness during the menstrual cycle in Indian women. Indian J. Ophthalmol. 68, 2918–2920.

Miyamoto N, Mandai M, Suzuma I, et al. Estrogen protects against cellular infiltration by educing the expression of E-selectin and IL-6 in endotoxin-induced uveitis. *J immunol*, 163: 374-379, 1999. [PubMed] [Google Scholar]

Muller LJ, Pels L, Vrensen GF. Novel aspects of the ultrastructural organization of human corneal keratocytes. *Invest Ophthalmol Vis Sci.* 1995;36(13):2557–2567.

Munro MG, Critchley HO, Broder MS, Fraser IS, FIGO Working Group on Menstrual Disorders. FIGO classification system (PALM-COEIN) for causes of abnormal uterine bleeding in nongravid women of reproductive age. International Journal of Gynaecology and Obstetrics. 2011;113(1):3-13. DOI: 10.1016/j.ijgo.2010.11.011

Mustonen RK, McDonald MB, Srivannaboon S, Tan AL, Doubrava MW, Kim CK. Normal human corneal cell populations evaluated by in vivo scanning slit confocal microscopy. *Cornea.* 1998;17(5):485–492.

Na K-S, Jee DH, Han K, et al. The ocular benefits of estrogen replacement therapy: A population-based study in postmenopausal Korean women. *PloS One*, 9: e106473, 2014. [PMC free article][PubMed] [Google Scholar]

Negi P, Mishra A, and Lakhera P, "Menstrual abnormalities and their association with lifestyle pattern in adolescent girls of Garhwal, India," *Journal of Family Medicine and Primary Care*, vol. 7, no. 4, p. 804, 2018.

Nisar N, Zehra N, Haider G, Munir AA, Sohoo NA. Frequency, intensity and impact of premenstrual syndrome in medical students. *J Coll Physicians Surg Pak.* 2008;18:481–484.

Oliver, K.M., Walsh, G., Tomlinson, A., McFadyen, A., Hemenger, R.P., 1996. Effect of the menstrual cycle on corneal curvature. Ophthalmic Physiol. Opt. 16, 467–473. https://doi.org/10.1016/0275-5408(96)00013-0

Panjwani N. Cornea and sclera. In: Harding JJ, ed. *Biochemistry of the Eye.* London: Chapman & Hall Medical; 1997:16–51.

Prawirohardjo S. *Ilmu Kebidanan Sarwono Prawirohardjo*. 4. Jakarta: PT BIna Pustaka Sarwono Prawirohardjo, 2009. Teks.

Rachmawati, A., & Dieny, F. Hubungan Obesitas dengan Gangguan Siklus Menstruasi pada Wanita Dewasa Muda. *J. Nutr. Collage***2**, 214– 222 (2013).

Reed BG, Carr BR. The normal menstrual cycle and the control of ovulation. In: De Groot LJ, Chrousos G, Dungan K, Feingold KR, Grossman A, Hershman JM, et al., editors. Endotext [Internet]. South Dartmouth (MA): MDText.com, Inc.; 2000 (ver 2018 Aug 5.)

Rafique, N., & Al-Sheikh, M. H. (2018). Prevalence of menstrual problems and their association with psychological stress in young female students studying health sciences. *Saudi Medical Journal*, *39*(1), 67–73. https://doi.org/10.15537/smj.2018.1.21438

Randleman JB, Dawson DG, Grossniklaus HE, McCarey BE, Edelhauser HF. Depth-dependent cohesive tensile strength in human donor corneas: implications for refractive surgery. *J Refract Surg*. 2008;24(1):S85–S89.

Sherwood, Lauralee. Human Physiology: from Cells to Systems. Belmont, CA :Brooks/Cole, Cengage Learning, 2013.

Sridhar MS. Anatomy of cornea and ocular surface. *Indian J Ophthalmol*. 2018;66(2):190-194. doi:10.4103/ijo.IJO_646_17

Stocco C, Telleria C, Gibori G. The molecular control of corpus luteum formation, function, and regression. Endocrine Reviews. 2007;28(1):117-149. DOI: 10.1210/er.2006-0022

Thiyagarajan DK, Basit H, Jeanmonod R. Physiology, Menstrual Cycle. [Updated 2021 Sep 18]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2021 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NBK500020/?report=classic

Vajarannant TS, Grossardt MR, Maki PM, et al. The risk of glaucoma after bilateral oophorectomy. *Menopause*, 21: 391-398, 2014. [PMC free article] [PubMed] [Google Scholar]

Versura, P., Fresina, M., Campos, E.C., 2007. Ocular surface changes over the menstrual cycle in women with and without dry eye. Gynecol. Endocrinol. 23, 385–390. https://doi.org/10.1080/09513590701350390

Vyas, A. K. et al. (2020) 'A retrospective study: impact of various phases of menstrual cycle on corneal pachymetry', Indian Journal of Clinical and Experimental Ophthalmology, 6(1), pp. 114–116. doi: 10.18231/j.ijceo.2020.025.

Wei S, Schmidt MD, Dwyer T, Norman RJ, and Venn AJ, "Obesity and menstrual irregularity: associations with SHBG, testosterone, and insulin," Obesity, vol. 17, no. 5, pp. 1070–1076, 2009.

Wei X, Cai S-p, Zhang X, et al. Is low dose of estrogen beneficial for prevention of glaucoma ? Medical Hypotheses, 79: 377-380, 2012. [PubMed] [Google Scholar]

Zheng T, Le Q, Hong J, Xu J. Comparison of human corneal cell density by age and corneal location: an in vivo confocal microscopy study. BMC Ophthalmol. 2016;16:109.

LAMPIRAN

LAMPIRAN 1: REKOMENDASI PERSETUJUAN ETIK

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.
Contact Person: dr. Agussalim Bukhari.,MMed.PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

REKOMENDASI PERSETUJUAN ETIK
Nomor : 453/UN4.6.4.5.31/ PP36/ 2022

Tanggal: 22 Agustus 2022

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH22070398	No Sponsor Protokol	
Peneliti Utama	**dr. Hanna Aulia Namirah, S.Ked**	Sponsor	
Judul Peneliti	Hubungan Fase pada Siklus Mentruasi dengan Ketebalan Kornea Sentral dan Topografi Kornea		
No Versi Protokol	**1**	Tanggal Versi	**22 Juli 2022**
No Versi PSP	**1**	Tanggal Versi	**22 Juli 2022**
Tempat Penelitian	RSUP Dr. Wahidin Sudirohusodo Makassar		
Jenis Review	☐ Exempted ☒ Expedited ☐ Fullboard Tanggal	Masa Berlaku **22 Agustus 2022** sampai **22 Agustus 2023**	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Nama **Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)**	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	Nama **dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)**	Tanda tangan	

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Lapor SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

LAMPIRAN 2: LEMBAR PERSETUJUAN PENELITIAN

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.
Contact Person: dr. Agussalim Bukhari.,MMed,PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

FORMULIR PERSETUJUAN SETELAH PENJELASAN

Saya yang bertandatangan di bawah ini :

Nama : .....
Umur : .....
Masa Kerja : .....
Satuan : .....
Alamat : .....
.....

setelah mendengar/membaca dan mengerti penjelasan yang diberikan mengenai tujuan, manfaat, dan apa yang akan dilakukan pada penelitian ini, menyatakan setuju untuk ikut dalam penelitian ini secara sukarela tanpa paksaan.

Saya tahu bahwa keikutsertaan saya ini bersifat sukarela tanpa paksaan, sehingga saya bisa menolak ikut atau mengundurkan diri dari penelitian ini. Saya berhak bertanya atau meminta penjelasan pada peneliti bila masih ada hal yang belum jelas atau masih ada hal yang ingin saya ketahui tentang penelitian ini.

Saya juga mengerti bahwa semua biaya yang dikeluarkan sehubungan dengan penelitian ini, akan ditanggung oleh peneliti. Saya percaya bahwa keamanan dan kerahasiaan data penelitian akan terjamin dan saya dengan ini menyetujui semua data saya yang dihasilkan pada penelitian ini untuk disajikan dalam bentuk lisan maupun tulisan.

Dengan membubuhkan tandatangan saya di bawah ini, saya menegaskan keikutsertaan saya secara sukarela dalam studi penelitian ini.

	Nama	**Tanda tangan**	**Tgl/Bln/Thn**
Responden	.....	.....	.....
/Wali			
Saksi	.....	.....	.....

(Tanda Tangan Saksi diperlukan hanya jika Partisipan tidak dapat memberikan consent/persetujuan sehingga menggunakan wali yang sah secara hukum, yaitu untuk partisipan berikut:

1. Berusia di bawah 18 tahun

2. Usia lanjut
3. Gangguan mental
4. Pasien tidak sadar
5. Dan lain-lain kondisi yang tidak memungkinkan memberikan persetujuan

Penanggung jawab penelitian :
Nama : dr. Hanna Aulia Namirah
Alamat : Jl. Kakatua No.29/35, Makassar
Tlp : 082228222307

Penanggung jawab Medis :
Dr. dr. Purnamanita Syawal, Sp.M, MARS
Jl. Datuk Ribandang I/7, Makassar
08525599982

LAMPIRAN 3 : MASTER DATA SAMPEL PENELITIAN

NO	NAMA	EKERJAA	STATUS PERNIKAHAN	USIA (th)	BB (kg)	TB (cm)	IMT (kg/m2)	GANGGUAN REFRAKSI (KM)	BCVA	DURASI SIKLUS (hari)	DURASI HAID (hari)	CCT (nm)			F1 (FOLIKULER)												
												F1	F2	F3	3 mm			5 mm			7 mm			3 mm		
															K Ave (D)	Cyl (D)	Ax (˚)	K Ave (D)	Cyl (D)	Ax (˚)	K Ave (D)	Cyl (D)	Ax (˚)	K Ave (D)	Cyl (D)	Ax (˚)
1	NOP	PPDS	Menikah	33	55	149	24,8	EMETROP	1,0	28	7	518	518	523	42.15	-1,68	4	41.97	-1,74	4	41.92	-1,93	180	42.19	-1,3	175
2	MIR	PPDS	Menikah	34	62	154	26,1	MIOP	1,0	28	6	508	520	510	46.55	-0,81	175	46.35	-0,88	177	45.91	-0,47	172	46.70	-0,63	168
3	AND	PPDS	Menikah	30	49	162	18,7	MIOP	1,0	27	6	561	562	565	42.92	-1,14	165	42.78	-1,19	169	42.68	-1,18	173	42.85	-1,11	167
4	LIA	PPDS	Belum	31	51	160	19,9	MIOP	1,0	28	6	548	549	543	44,65	-0,29	122	44,62	0	0	44,45	-0,31	163	44,74	-0,44	124
5	DAA	PPDS	Menikah	31	54	160	21,1	EMETROP	1,0	28	10	527	536	533	41,95	-0,88	180	41,57	-0,82	5	41,02	-0,9	4	42,09	-1,08	8
6	HMR	PPDS	Belum	28	42	160	16,4	EMETROP	1,0	28	7	547	552	552	44,36	-0,29	16	44,34	-0,62	10	44,29	-1,34	7	44,27	0	0
7	SSN	PPDS	Belum	34	59	159	23,3	EMETROP	1,0	30	5	533	532	532	42,26	-0,35	157	42,02	-0,25	6	41,93	-0,83	4	42,36	-0,37	170
8	DNP	PPDS	Menikah	35	59	159	23,3	EMETROP	1,0	23	9	529	531	522	42,61	-1,07	167	42,77	-1,38	180	42,46	-1,27	180	42,87	-1,41	174
9	INT	PPDS	Menikah	34	55	150	24,4	MIOP	1,0	28	6	559	561	559	44,86	-0,3	72	44,95	-0,41	68	45,06	-0,28	25	44,9	-0,25	90
10	NNU	PPDS	Belum	31	75	154	31,6	EMETROP	1,0	28	7	467	470	461	45,3	-1,19	175	45,08	-1	177	45,06	-1,22	5	45,39	-1,22	176
11	LLY	PPDS	Menikah	30	74	153	31,6	MIOP	1,0	33	5	502	504	506	43,24	-0,83	162	42,83	-0,76	160	42,67	-0,79	162	43,44	-1,08	170
12	DTS	PPDS	Belum	32	65	155	27,1	MIOP	1,0	28	5	543	541	536	42,6	-1,05	180	42,54	-1,26	180	42,27	-1,35	177	42,4	-0,89	180
13	FDI	PPDS	Menikah	29	53	158	21,2	MIOP	1,0	29	7	555	555	558	44,38	-2,15	180	43,91	-1,66	180	43,72	-1,61	180	44,24	-1,85	180
14	MCL	PPDS	Belum	28	55	160	21,5	EMETROP	1,0	32	6	585	584	589	43,3	-0,74	162	43,35	-0,91	175	43,24	-1,16	180	43,3	-1,31	26
15	AME	PPDS	Belum	30	63	155	26,2	EMETROP	1,0	30	5	628	627	630	42,08	-0,48	177	42,02	-0,6	180	41,92	-1,25	171	42,16	0	0
16	IND	PPDS	Menikah	31	47	150	20,9	MIOP	1,0	28	6	523	522	519	41,78	-1,07	4	41,4	-0,94	180	41,13	-0,84	180	41,79	-1,03	180
17	NSY	PPDS	Menikah	31	43	150	19,1	MIOP	1,0	30	6	498	504	498	41,24	-0,93	173	41,07	-0,92	176	40,99	-1,09	176	41,4	-1,2	175
18	OYA	NURSE	Belum	32	48	154	20,2	MIOP	1,0	30	6	552	554	553	44,4	-1,66	161	44,18	-1,22	166	43,55	-0,81	159	44,52	-1,47	161
19	JEN	PPDS	Menikah	33	72	160	28,1	MIOP	1,0	28	7	489	492	483	43,04	-2,46	180	42,61	-2,39	3	42,56	-2,93	180	42,91	-2,34	180
20	FRN	PPDS	Belum	27	53	170	18,3	MIOP	1,0	31	5	540	541	538	43,89	-0,79	174	43,91	-1,06	180	43,6	-0,86	180	43,91	-0,98	180
21	FPW	PPDS	Belum	27	65	155	27,1	EMETROP	1,0	28	6	511	517	520	43,74	0	0	44,11	-1,54	6	43,59	-1,06	5	43,78	-0,24	22
22	IWL	PPDS	Menikah	35	65	150	28,9	MIOP	1,0	26	6	501	505	498	46,91	-0,48	155	46,95	-0,53	162	47,2	-1,42	171	46,98	-0,71	160
23	MYS	PPDS	Belum	30	60	157	24,3	EMETROP	1,0	29	6	528	528	524	44,78	-0,86	11	45,19	-1,76	5	45,03	-2,13	7	44,85	-0,87	6
24	UTI	PPDS	Belum	27	55	155	22,9	MIOP	1,0	28	7	484	488	490	44,73	-1,17	170	44,55	-1,08	180	44,59	-2,12	180	44,7	-0,8	180
25	CIN	PPDS	Belum	27	62	156	25,5	EMETROP	1,0	35	6	629	628	627	43,55	-0,34	90	43,55	0	0	43,33	0	0	43,63	-0,22	90
26	PUT	PPDS	Menikah	34	62	160	24,2	MIOP	1,0	30	9	580	574	572	44,11	-1,46	180	44,08	-1,55	180	44,12	-1,85	180	44,28	-1,57	180
27	DGM	PPDS	Menikah	31	61	149	27,5	MIOP	1,0	32	5	520	522	515	45,68	-1,26	180	45,58	-1,35	180	45,4	-1,78	177	45,84	-1,36	176
28	SAR	PPDS	Belum	31	58	154	24,5	EMETROP	1,0	28	7	583	591	588	42,01	-1,01	180	41,69	-1,1	4	41,29	-0,98	4	41,96	-1,01	4
29	AHWA	NURSE	Menikah	33	50	152	21,6	MIOP	1,0	28	6	525	529	525	44,67	-1,39	156	44,66	-1,8	164	44,39	-1,97	162	44,64	-1,3	158
30	AINUN	MPPDS	Belum	24	54	159	21,4	EMETROP	1,0	30	8	510	513	506	44,81	-1,09	180	44,71	-1,05	6	44,39	-1,15	180	45,08	-1,03	180
31	VIRGINIA	MPPDS	Belum	23	50	150	22,2	MIOP	1,0	30	4	532	537	535	45,22	-0,84	170	45,01	-0,66	166	44,74	-0,81	173	45,22	-0,75	166
32	SELYN DIO	MPPDS	Belum	22	56	159	22,2	EMETROP	1,0	28	6	565	562	560	43,75	-0,68	180	43,67	-0,68	180	43,51	-1,13	180	43,43	-0,43	180
33	DIVA	MPPDS	Belum	23	55	157	22,3	MIOP	1,0	26	6	533	537	533	44,48	-1,36	171	44,37	-1,51	172	44,02	-1,57	176	43,38	-1,64	177
34	RAHAYU	MPPDS	Belum	23	49	161	18,9	MIOP	1,0	25	6	505	511	506	44,7	-0,85	170	44,48	-0,75	171	44,43	-1,43	176	44,66	-0,93	167
35	SISKA	NURSE	Menikah	35	48	150	21,3	EMETROP	1,0	30	9	532	535	524	43,53	-1,41	172	43,22	-1,24	172	43,04	-1,29	176	43,5	-1,26	168
36	VANIA	MPPDS	Belum	22	48	150	21,3	EMETROP	1,0	28	5	573	577	573	43,64	-0,97	180	43,45	-0,78	175	43,2	-1,04	180	43,62	-0,79	175
37	YAUMIL	MPPDS	Belum	23	63	164	23,4	MIOP	1,0	34	7	519	517	511	43,03	-0,85	174	42,57	-1,33	176	42,68	-1,78	177	42,69	-0,52	149
38	DWI RAHN	MPPDS	Belum	24	52	149	23,4	EMETROP	1,0	29	8	536	534	536	43,91	0	0	43,82	-0,35	12	43,44	-0,63	180	44,09	-0,51	17
39	FITRIANI	MPPDS	Belum	22	55	146	25,8	EMETROP	1,0	29	6	487	481	484	41,74	0	0	41,58	-0,45	10	41,29	-0,59	7	41,67	-0,33	33
40	RIA	PPDS	Menikah	34	65	160	25,4	MIOP	1,0	30	6	562	552	551	42,51	-0,57	144	42,64	-0,86	156	42,29	-0,63	141	42,99	-1,64	174
41	DUDE	NURSE	Menikah	33	58	157	23,5	EMETROP	1,0	28	5	544	543	540	45,62	-1,02	11	45,33	-0,66	3	45,01	-0,69	174	45,31	-0,68	180
42	FAR	PPDS	Menikah	32	49	152	21,2	MIOP	1,0	30	6	547	543	546	42,6	-0,79	180	42,68	-0,99	180	42,52	-0,91	8	43,14	-0,79	169
43	KSA	PPDS	Belum	30	50	155	20,8	MIOP	1,0	28	4	616	610	617	42,78	-0,31	15	42,53	-0,42	15	42,27	-0,79	8	42,7	-0,35	10
44	RAS	PPDS	Menikah	34	67	156	27,5	EMETROP	1,0	28	7	481	487	482	42,13	-1,12	176	42,01	-1,24	178	41,14	-1,74	177	41,83	-1,37	173

MATA KANAN																											
KURVATUR															SPHERICAL EQUIVALENT			CCT								
F2 (OVULASI)						F3 (LUTEAL)									F1	F2	F3	F1	F2	F3	F1 FOLIKULER					
5 mm			7 mm			3 mm			5 mm			7 mm									3 mm			5 mm		
K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)							K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)
42.11	-1,36	177	41.84	-1,26	180	42.17	-1,48	175	42.10	-1,32	180	41.84	-1,26	3	0,5	0,37	0,37	552	532	530	42.15	-1,68	4	41.97	-1,74	4
46.32	-0,83	174	45.90	-0,59	180	46.60	-0,84	174	46.36	-0,8	173	45.94	-0,56	175	-0,62	-0,75	-0,62	507	515	514	46.38	-1,21	12	46.22	-0,99	12
42.78	-1,06	170	42.67	-1,15	175	42,9	-1,11	166	42,76	-1,09	170	42,63	-1,13	174	-2,12	-2,12	-2	565	569	574	42.67	-0,98	13	42.54	-1,19	11
44,63	0	0	44,41	0	0	44,49	-0,74	106	44,53	-0,34	103	44,5	-0,42	159	-0,62	-0,87	-0,87	542	549	543	44,81	-0,49	25	44,52	0	0
41,65	-1,09	9	41,01	-1,17	180	41,92	-0,68	180	41,48	-0,8	5	40,92	-0,9	180	-0,62	-0,75	-0,62	533	528	534	41,88	-0,54	20	41,36	-0,4	5
44,33	-0,61	14	44,17	-1,07	14	44,58	-0,37	12	44,43	-0,81	11	44,28	-1,33	8	0,5	0,62	0,62	551	549	547	45,02	-0,63	168	44,82	-0,68	165
42,16	-0,28	180	41,93	-0,63	12	42,44	-0,61	180	42,37	-0,57	180	42,03	-0,98	7	-1	-1,12	-1,37	528	527	534	42,29	-0,42	13	42,24	-0,73	180
42,97	-1,76	176	42,47	-1,22	177	42,91	-1,34	173	43,02	-1,68	174	42,63	-1,28	170	-0,67	-0,75	-0,67	534	532	530	42,32	-0,83	9	42,2	-0,98	4
45,21	-0,47	18	45,17	-0,48	180	45,42	-0,46	157	45,3	-0,32	158	45,32	-0,61	168	-0,62	-0,62	-0,5	557	559	563	45,42	-0,46	157	45,3	-0,32	158
45,09	-0,82	177	44,91	-0,85	5	44,86	-1,05	13	44,68	-0,76	10	44,5	-0,71	180	0,25	-0,12	0,25	466	464	459	44,76	-0,91	8	44,79	-0,88	9
43,08	-0,7	157	42,68	-0,53	165	43,01	-0,93	160	42,96	-0,76	160	42,62	-0,55	161	-0,5	-1	-0,75	512	513	513	43	-0,93	10	42,91	-0,99	6
42,31	-0,9	3	42,25	-1,42	180	42,36	-0,85	3	42,41	-1,1	3	42,2	-1,34	180	-1	-1,12	-1	543	543	532	42,51	-1,02	180	42,51	-1,31	180
43,97	-1,56	3	43,6	-1,09	180	44,18	-1,76	177	43,91	-1,7	180	43,83	-1,81	177	-0,37	-0,5	-0,37	554	552	555	44,14	-1,94	7	43,95	-1,54	6
43,42	-1,59	26	43,47	-2,18	24	43,37	-0,75	169	43,32	-1	174	43	-0,76	180	0,37	0,25	0,37	592	593	589	43,28	-0,52	10	43,27	-0,77	180
42,23	-0,98	175	41,79	-1,04	4	42,18	-0,39	168	42,09	-0,85	173	41,72	-0,86	176	-0,37	0,25	-0,87	628	620	632	42,18	-0,27	174	42,33	-1,23	180
41,44	-0,91	180	41,15	-0,8	3	41,84	-1,02	4	41,49	-1,01	180	41,14	-0,82	180	-2,25	-2,25	-2,25	519	519	515	41,98	-1,31	180	41,61	-1,02	180
41,11	-1,07	175	40,66	-0,57	163	41,38	-1,08	175	41,25	-1,23	176	40,75	-0,61	168	-0,12	-0,25	-0,12	499	499	497	41,15	-0,78	180	41,35	-1,37	177
44,19	-1,12	162	43,63	-0,93	169	44,47	-1,25	12	44,06	-0,73	17	43,59	-0,66	9	-2,25	-2,37	-2,25	550	551	550	44,43	-1,07	10	44,35	-1,31	7
42,75	-2,26	5	42,25	-2,03	3	42,9	-2,98	180	42,63	-2,99	180	42,61	-3,36	180	-0,87	-0,87	-0,87	486	485	476	42,9	-2,98	180	42,63	-2,99	180
43,81	-0,7	180	4372	-0,64	10	44,09	-0,73	155	43,87	-0,72	176	43,74	-1,07	180	-0,5	-0,87	-0,5	546	548	544	43,76	-0,79	14	43,6	-0,95	6
43,59	-0,46	8	43,4	-0,67	13	43,96	-0,58	4	43,8	-0,57	7	43,71	-1,11	4	-0,62	-0,5	-0,5	513	511	520	43,91	-0,75	12	43,76	-0,64	13
46,95	-0,48	162	46,8	-0,53	170	46,82	-0,49	142	46,81	-0,47	149	47,32	-1,69	172	-2,25	-2,25	-2,12	505	501	507	46,97	-0,77	40	46,89	-0,72	37
45,21	-1,8	180	45,05	-2,17	3	44,88	-0,82	6	45,25	-2,06	5	44,98	-1,89	5	-0,62	-0,5	-0,5	539	537	540	45,24	-1,07	17	45,18	-1,39	180
44,67	-1,35	180	44,46	-1,82	180	44,59	-0,84	172	44,47	-1,01	180	44,3	-1,62	180	-2,5	-2,87	-2,62	489	480	482	44,57	-0,85	17	44,37	-1,05	5
43,6	-0,22	90	43,32	-0,23	60	43,73	-0,36	98	43,89	-0,23	174	43,87	-0,62	153	0	-0,12	0,12	638	627	630	43,71	0	0	43,88	-0,35	168
44,25	-1,68	180	44,12	-1,61	7	44,15	-1,35	173	44,05	-1,32	175	44,01	-1,42	180	-2,5	-2,5	-2,62	590	580	579	44,29	-1,29	180	44,32	-1,41	180
45,84	-1,66	180	45,51	-1,76	175	45,91	-1,39	180	45,82	-1,49	176	45,57	-1,8	177	-0,25	-0,75	-0,12	521	525	523	45,79	-1,36	3	45,64	-1,34	180
41,66	-1,04	4	41,31	-1,11	6	41,82	-0,98	5	41,63	-1,21	4	41,25	-1,06	5	-0,5	-0,5	-0,62	580	585	587	42,11	-1,06	180	41,91	-1,04	180
44,64	-1,34	162	44,3	-1,61	165	44,61	-1,62	157	44,8	-2,01	163	44,29	-1,73	160	-0,75	-0,87	-0,65	530	535	533	45,06	-1,42	8	45,28	-2,38	3
44,77	-1,03	8	44,53	-1,39	176	44,89	-0,95	180	44,75	-1,13	6	44,52	-1,33	180	0,12	0,12	0,25	512	506	507	45,15	-1,12	177	44,8	-1,07	180
45,02	-0,61	165	44,74	-0,79	180	45,23	-0,74	167	44,96	-0,63	168	44,68	-0,8	176	-1,12	-1,5	-1,37	530	536	535	45,07	-0,99	13	44,96	-0,98	13
43,58	-0,66	174	43,64	-1,1	180	43,97	-0,7	11	43,68	-0,69	3	43,57	-0,96	180	-0,62	-0,5	-0,5	565	566	566	43,47	-0,94	169	43,42	-0,84	174
44,5	-1,42	173	44,19	-1,72	174	44,44	-1,45	175	44,48	-1,74	175	44,21	-1,9	180	-2,5	-2,5	-2,75	539	537	541	44,17	-1,8	180	44,27	-1,62	180
44,38	-0,71	167	44,13	-0,87	173	44,59	-0,88	168	44,33	-0,76	170	44,35	-1,45	173	-1,12	-1,5	-1	496	499	496	44,96	-1,02	8	44,75	-1,11	7
43,15	-1,15	172	42,93	-1,02	180	43,52	-1,35	172	43,22	-1,16	171	42,92	-0,89	175	-0,12	0	-0,62	526	525	525	43,73	-1,59	5	43,25	-1,44	6
43,36	-0,82	176	42,97	-0,9	180	43,39	-0,5	172	43,42	-0,92	180	43,14	-1,17	180	0	0,25	-0,25	579	574	577	41,81	-0,9	180	41,56	-0,93	177
42,49	-0,94	177	42,39	-1,17	176	42,67	-0,88	176	42,47	-0,91	177	42,3	-1,16	180	-1,5	-1,25	-2,37	516	515	513	42,82	-1,11	180	42,67	-1,29	180
43,65	-0,24	14	43,4	-0,74	180	44,01	-0,3	10	43,84	-0,34	7	43,51	-0,82	10	-0,5	-0,62	-0,5	529	538	532	43,94	-0,46	159	43,8	-0,68	176
41,63	-0,65	13	41,23	-0,54	176	41,74	0	0	41,66	-0,44	8	41,34	-0,43	4	-0,62	-0,62	-0,25	486	484	483	41,61	-0,59	180	41,43	-0,8	175
42,77	-0,33	147	42,25	-0,83	135	42,4	-0,53	145	42,41	-0,54	165	42,17	-0,56	140	-0,25	-0,5	0	538	541	541	42,74	-0,55	35	42,79	-0,63	21
45,26	-0,54	180	45,01	-0,56	180	42,58	-0,36	7	45,28	-0,41	5	44,96	-0,41	8	-0,87	-0,62	-1	543	546	543	45,62	-1,02	11	45,33	-0,66	3
42,56	-0,83	12	42,42	-0,92	10	42,74	-1,09	174	42,76	-1,27	180	42,53	-0,79	7	-1	-0,87	-1	554	550	557	43,64	-2,05	170	43,72	-2,27	177
42,47	-0,43	14	42,28	-0,83	13	42,73	-0,4	13	42,57	-0,45	11	42,27	-0,74	10	-0,12	-0,65	0	618	624	613	42,54	-0,47	153	42,21	-0,97	173
41,65	-1,28	174	41,67	-1,74	177	42,4	-1,1	176	41,73	-1,23	170	41,47	-1,56	172	-0,5	-0,75	-0,5	483	487	485	41,43	-1,12	13	41,13	-1,21	15

MATA KIRI																								
KURVATUR																							SPHERICAL EQUIVALENT		
			F2 (OVULASI)									F3 (LUTEAL)										F1	F2	F3
7 mm			3 mm			5 mm			7 mm			3 mm			5 mm			7 mm						
K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)	K Ave (D)	Cyl (D)	Ax (°)			
41.92	-1,93	180	42.11	-1,52	4	41.93	-1,61	4	41.91	-1,88	180	42.04	-1,61	180	41.99	-1,71	180	41.78	-1,63	180	0,5	0,37	0,5
45.81	-0,59	11	46.55	-1,37	10	46.25	-1,1	8	45.92	-0,72	9	46.52	-1,38	14	46.17	-1,05	12	45.73	-0,57	15	0,12	0	0,25
42.45	-1,36	6	42.61	-1,15	11	42.53	-1,27	8	42.51	-1,59	5	42,59	-1,2	13	42,49	-1,32	12	42,39	-1,42	6	-1,25	-1,37	-1,25
44,53	-0,53	8	44,93	-0,45	21	44,51	0	0	44,53	-0,53	180	44,67	-0,42	43	44,49	-0,27	29	44,46	-0,51	4	-1,5	-1,62	-1,62
40,75	0,42	161	41,75	-0,5	4	41,28	-0,48	10	40,63	0	0	41,52	-0,63	6	41,2	-0,32	13	40,79	0	0	0	0	0
44,55	-0,92	163	45,27	-0,56	174	45,01	-0,64	166	44,7	-0,99	164	44,94	-0,59	167	44,84	-0,78	160	44,51	-0,9	164	0,62	0,62	0,5
42,06	-1,21	8	41,87	-0,42	162	42,13	-1,28	180	41,84	-0,47	180	42,43	-0,53	180	42,21	-0,68	180	41,78	-0,51	180	-0,87	-0,5	-1
42,15	-1,24	180	42,43	-0,83	4	42,4	-1,14	4	42,2	-1,24	4	42,48	-0,8	10	42,45	-1,12	7	42,32	-1,41	180	-0,67	-0,5	-0,5
45,32	-0,61	168	45,26	-0,32	180	45,48	-0,79	180	45,34	-0,77	176	45,42	-0,46	157	45,3	-0,32	158	45,32	-0,61	168	-0,37	-0,5	-0,37
44,62	-0,85	180	44,97	-0,96	13	44,75	-0,87	8	44,63	-0,89	180	44,86	-1,05	13	44,68	-0,76	10	44,5	-0,71	180	0,12	-0,12	0
42,66	-0,89	180	43,18	-0,94	11	42,88	-0,77	8	42,56	-0,55	4	43,14	-0,42	180	42,87	-1,11	12	42,48	-0,6	3	-0,25	-0,75	-0,5
42,32	-1,58	180	42,46	-1,03	180	42,28	-0,95	177	42,29	-1,64	180	42,23	-1,03	180	42,27	-1,06	180	42,19	-1,45	6	-0,5	-0,5	-0,5
43,58	-1,27	3	44,39	-1,86	5	44,07	-1,75	6	43,69	-1,44	4	44,29	-1,76	8	43,97	-1,7	6	43,77	-1,66	4	-0,25	-0,5	-0,25
43	-0,73	180	43,27	-0,56	12	43,22	-0,8	6	43,15	-1,13	180	43,19	-0,44	180	43,19	-0,76	3	43,11	-1,01	176	0,87	0,5	0,87
41,85	-1,17	3	42,23	-0,39	5	41,97	-0,31	180	41,92	-0,73	171	42,56	-1,31	172	42,95	-2,47	5	41,81	-0,79	10	-0,12	-0,25	-0,37
41,28	-0,75	176	41,97	-1,41	180	41,63	-1,03	180	41,3	-0,75	175	41,88	-1,26	3	41,59	-1,15	180	41,27	-0,73	175	-1,25	-1,25	-1,12
40,71	-0,33	180	41,12	-0,96	180	41,34	-1,47	180	40,74	-0,21	27	41,26	-0,85	180	41,3	-1,15	180	40,72	-0,3	180	0,12	0	0,12
43,61	-0,6	8	44,47	-1,25	12	44,06	-0,73	17	43,59	-0,66	9	44,4	-0,99	10	44,19	-1,12	6	43,55	-0,69	9	-2,25	-2,12	-2,25
42,61	-3,36	180	42,85	-2,67	180	42,55	-2,86	180	42,5	-3,35	4	43,12	-3,19	174	42,88	-3,51	175	43	-4,21	180	-0,5	-0,5	-0,5
43,65	-1,3	180	43,65	-0,67	175	43,51	-0,58	176	43,41	-0,61	165	43,55	-0,65	42	43,6	-0,92	180	43,39	-1,04	180	-0,37	-0,5	-0,5
43,98	-1,62	11	43,98	-0,82	5	43,71	-0,55	21	43,78	-1,23	7	43,87	-0,81	4	43,68	-0,63	10	43,63	-0,93	3	-0,5	-0,5	-0,62
46,9	-0,91	9	47,16	-0,91	38	46,96	-0,85	31	46,93	-1,02	15	47,22	-0,9	28	46,95	-0,7	29	47,32	-1,76	14	-2	-1,87	-1,87
44,86	-1,81	177	45,37	-1,11	17	45,24	-1,4	180	44,95	-1,82	177	45,32	-0,83	7	45,25	-1,65	180	44,87	-1,77	180	-0,37	-0,25	-0,25
44,32	-1,65	3	44,75	-1,13	15	44,54	-1,31	7	44,48	-1,86	180	44,8	-0,92	16	44,45	-1,13	180	44,36	-1,73	4	-2,5	-2,63	-2,5
43,64	-0,5	180	43,83	0	0	43,89	-0,31	168	43,71	-0,56	142	43,93	0	0	43,93	-0,34	167	43,64	-0,37	139	0,12	0	0,12
44,67	-2,79	180	44,31	-1,07	180	44,58	-1,56	180	44,61	-2,24	180	44,23	-1,03	177	44,52	-1,47	176	44,52	-2,06	175	-2,5	-2,5	-2,5
45,42	-1,74	180	45,8	-1,31	6	45,62	-1,46	180	45,4	-1,67	3	45,71	-1,77	180	45,55	-1,34	176	45,44	-1,45	180	-0,37	-0,5	-0,12
41,58	-1,03	177	41,93	-0,83	3	41,74	-0,99	180	41,54	-1,11	177	41,91	-0,71	175	41,87	-1,12	8	41,61	-1,28	180	-0,12	-0,12	-0,25
44,43	-1,47	9	45,16	-1,58	6	44,92	-1,53	5	44,41	-1,28	6	45,66	-2,28	4	45,06	-1,63	180	44,85	-2,02	180	-1,25	-1,12	-1,12
44,49	-1,11	180	44,94	-1,02	180	44,75	-0,96	180	44,47	-1,17	180	45,05	-1,1	180	44,78	-1,01	180	44,54	-1,25	180	0	-0,37	-0,25
44,74	-1,04	11	45,03	-0,93	13	44,9	-0,92	14	44,66	-1,04	9	45,01	-0,99	13	44,88	-0,94	14	44,7	-1,18	10	-0,87	-1,25	-0,75
43,38	-1,09	180	43,54	-0,7	168	43,44	-0,89	175	43,36	-1,15	180	43,56	-1,27	173	43,56	-1,27	173	43,17	-0,81	169	-0,5	-0,5	-5
43,99	-1,81	176	44,28	-1,63	180	44,15	-1,62	180	44,01	-1,93	177	44,45	-1,28	4	44,22	-1,55	180	44,05	-1,79	180	-2,5	-2,75	-2,5
44,84	-1,75	4	44,92	-0,67	9	44,63	-1,11	5	44,44	-0,93	3	44,89	-0,82	6	44,71	-1,31	8	44,69	-1,76	4	-1,12	-1,5	-1,12
42,83	-1,04	7	43,45	-1,32	8	43,29	-1,35	7	42,92	-1,1	6	43,33	-1,35	8	43,12	-1,31	11	42,72	-0,96	7	-0,12	-0,5	0
41,49	-1,13	171	43,68	-0,94	180	43,43	-0,93	180	43,04	-0,85	172	43,63	-0,88	3	43,41	-0,89	180	43,03	-0,93	173	-0,12	0,12	-0,25
42,54	-1,54	180	42,66	-0,81	180	42,63	-1,02	177	42,34	-1,13	175	42,82	-0,87	180	42,54	-0,88	180	42,25	-1,01	177	-1,75	-1,62	-2
43,41	-0,97	180	44,37	-1,45	6	43,98	-1,04	180	43,48	-1,13	13	44,25	-0,91	174	43,65	-0,88	180	43,71	-1,07	9	-0,5	-0,75	-0,5
41,3	-1,32	174	41,52	-0,42	6	41,36	-0,68	177	41,39	-1,38	177	41,67	-0,6	180	41,47	-0,73	174	41,42	-1,29	174	-0,62	-0,75	-0,75
42,54	-0,41	36	42,97	-0,92	17	42,9	-0,97	24	42,37	-0,85	43	42,78	-0,84	29	42,8	-0,5	16	42,16	-0,47	32	-0,25	-0,37	-0,25
45,01	-0,69	174	45,39	-0,87	10	45,41	-0,96	9	45,23	-1,24	6	45,57	-0,105	10	45,35	-0,74	8	45,13	-0,94	7	-0,25	-0,62	-1
42,99	-1,5	177	43,9	-2,62	9	43,1	-1,49	12	42,57	-0,93	180	42,76	-0,95	175	43,26	-1,91	177	42,7	-1,15	174	-1	-1	-1,5
42,15	-1,36	180	42,31	-0,4	9	42,28	-0,56	180	41,92	-0,66	180	42,38	-0,46	171	42,22	-0,47	177	42,16	-1,08	180	0	0,25	0,12
41,21	-1,35	12	41,54	-1,26	15	41,38	-1,19	13	41,36	-1,47	13	41,54	-1,26	15	41,38	-1,19	13	41,36	-1,47	13	-0,62	-1,12	-0,75

LAMPIRAN 4 : *Output Data Analysis*

Pekerjaan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	PPDS	31	23.5	70.5	70.5
	Nurse	4	3.0	9.1	79.5
	MPPDS	9	6.8	20.5	100.0
	Total	44	33.3	100.0	
Missing	System	88	66.7		
Total		132	100.0		

Status_pernikahan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Belum menikah	24	18.2	54.5	54.5
	Menikah	20	15.2	45.5	100.0
	Total	44	33.3	100.0	
Missing	System	88	66.7		
Total		132	100.0		

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Usia	44	22.00	35.00	29.6136	4.10454
IMT	44	16.40	31.60	23.4295	3.38619
Durasi_siklus	44	23.00	35.00	28.9091	2.16546
Durasi_haid	44	4.00	10.00	6.3182	1.28990
Valid N (listwise)	44				

Status_gizi

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Berat badan kurus berat	1	.8	2.3	2.3
	Berat badan kurus ringan	1	.8	2.3	4.5
	Berat badan Normal	29	22.0	65.9	70.5
	Berat badan gemuk ringan	5	3.8	11.4	81.8
	Berat badan gemuk berat	8	6.1	18.2	100.0
	Total	44	33.3	100.0	
Missing	System	88	66.7		
Total		132	100.0		

Durasi_haid

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	4.00	2	1.5	4.5	4.5
	5.00	8	6.1	18.2	22.7
	6.00	19	14.4	43.2	65.9
	7.00	9	6.8	20.5	86.4
	8.00	2	1.5	4.5	90.9
	9.00	3	2.3	6.8	97.7
	10.00	1	.8	2.3	100.0
	Total	44	33.3	100.0	
Missing	System	88	66.7		
Total		132	100.0		

Descriptive Statistics

	N	Mean	Std. Deviation
CCT_kanan	132	536.8485	36.31867
CCT_kiri	132	537.7652	37.43246
mm3_kanan	132	-1.2477	3.78381
mm5_kanan	132	-.9773	.50939
mm7_kanan	132	-1.1145	.54143
mm3_kiri	132	-1.0008	.53645
mm5_kiri	132	-1.0845	.53446
mm7_kiri	132	-1.1637	.62855
refraksi_kanan	132	-.8054	.83509
refraksi_kiri	132	-.7070	.89661
Valid N (listwise)	132		

CCT

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
F1 2 mata	88	537.48	37.159	466	638
F2 2 mata	88	537.86	36.120	464	628
F3 2 mata	88	536.58	37.554	459	632

Friedman Test

Ranks

	Mean Rank
F1 2 mata	1.96
F2 2 mata	2.19
F3 2 mata	1.85

Test Statistics[a]

N	88
Chi-Square	5.843
df	2
Asymp. Sig.	.054

a. Friedman Test

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
F2 2 mata - F1 2 mata	Negative Ranks	37[a]	38.19	1413.00
	Positive Ranks	45[b]	44.22	1990.00
	Ties	6[c]		
	Total	88		
F3 2 mata - F2 2 mata	Negative Ranks	54[d]	40.79	2202.50
	Positive Ranks	28[e]	42.88	1200.50
	Ties	6[f]		
	Total	88		
F1 2 mata - F3 2 mata	Negative Ranks	39[g]	33.54	1308.00
	Positive Ranks	40[h]	46.30	1852.00
	Ties	9[i]		
	Total	88		

a. F2 2 mata < F1 2 mata
b. F2 2 mata > F1 2 mata
c. F2 2 mata = F1 2 mata
d. F3 2 mata < F2 2 mata
e. F3 2 mata > F2 2 mata
f. F3 2 mata = F2 2 mata
g. F1 2 mata < F3 2 mata
h. F1 2 mata > F3 2 mata
i. F1 2 mata = F3 2 mata

Test Statistics[a]

	F2 2 mata - F1 2 mata	F3 2 mata - F2 2 mata	F1 2 mata - F3 2 mata
Z	-1.338[b]	-2.322[c]	-1.332[b]
Asymp. Sig. (2-tailed)	**.181**	**.020**	**.183**

a. Wilcoxon Signed Ranks Test
b. Based on negative ranks.
c. Based on positive ranks.

TOPOGRAFI

3 mm

Descriptives

			Statistic	Std. Error
F2F1	Mean		-.0176	.02817
	95% Confidence Interval for Mean	Lower Bound	-.0736	
		Upper Bound	.0384	
	5% Trimmed Mean		.0017	
	Median		.0000	
	Variance		.070	
	Std. Deviation		.26428	
	Minimum		-1.07	
	Maximum		.48	
	Range		1.55	
	Interquartile Range		.32	
	Skewness		-1.343	.257
	Kurtosis		3.626	.508
F3F2	Mean		.0229	.03710
	95% Confidence Interval for Mean	Lower Bound	-.0508	
		Upper Bound	.0966	
	5% Trimmed Mean		.0092	
	Median		.0100	
	Variance		.121	
	Std. Deviation		.34806	
	Minimum		-.92	
	Maximum		1.67	
	Range		2.59	
	Interquartile Range		.30	
	Skewness		1.229	.257
	Kurtosis		6.147	.508
F3F1	Mean		.0053	.03278
	95% Confidence Interval for Mean	Lower Bound	-.0599	
		Upper Bound	.0704	
	5% Trimmed Mean		.0031	
	Median		.0000	
	Variance		.095	
	Std. Deviation		.30755	
	Minimum		-1.04	
	Maximum		1.10	
	Range		2.14	
	Interquartile Range		.26	
	Skewness		.157	.257
	Kurtosis		3.372	.508

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F2F1	.103	88	**.023**	.917	88	.000
F3F2	.117	88	**.004**	.895	88	.000
F3F1	.120	88	**.003**	.930	88	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	Mean	Std. Deviation	Minimum	Maximum	Percentiles 25th	50th (Median)	75th
F1 folikuler 3 mm	**-.9551**	**.52727**	-2.98	.00	-1.1625	-.9300	-.5750
F2 ovulasi 3 mm	**-.9727**	**.52219**	-2.67	.00	-1.3000	-.9400	-.5775
F3 luteal 3 mm	**-.9498**	**.52841**	-3.19	.00	-1.2375	-.8800	-.6025

Friedman Test

Ranks

	Mean Rank
F1 folikuler 3 mm	1.98
F2 ovulasi 3 mm	1.96
F3 luteal 3 mm	2.06

Test Statistics[a]

N	88
Chi-Square	.467
df	2
Asymp. Sig.	**.792**

a. Friedman Test

5 mm

Descriptives

			Statistic	Std. Error
F2F1	Mean		.0464	.03145
	95% Confidence Interval for Mean	Lower Bound	-.0161	
		Upper Bound	.1089	
	5% Trimmed Mean		.0309	
	Median		.0200	
	Variance		.087	
	Std. Deviation		.29502	
	Minimum		-.68	
	Maximum		1.08	
	Range		1.76	
	Interquartile Range		.23	
	Skewness		.915	.257
	Kurtosis		2.351	.508
F3F2	Mean		-.0525	.03567
	95% Confidence Interval for Mean	Lower Bound	-.1234	
		Upper Bound	.0184	
	5% Trimmed Mean		-.0318	
	Median		-.0200	
	Variance		.112	
	Std. Deviation		.33458	
	Minimum		-2.16	
	Maximum		.60	
	Range		2.76	
	Interquartile Range		.26	
	Skewness		-2.879	.257
	Kurtosis		17.501	.508
F3F1	Mean		-.0061	.03006

	95% Confidence Interval for Mean	Lower Bound	-.0659	
		Upper Bound	.0536	
	5% Trimmed Mean		-.0062	
	Median		.0100	
	Variance		.080	
	Std. Deviation		.28202	
	Minimum		-1.24	
	Maximum		.97	
	Range		2.21	
	Interquartile Range		.23	
	Skewness		-.275	.257
	Kurtosis		4.960	.508

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F2F1	.184	88	**.000**	.926	88	.000
F3F2	.147	88	**.000**	.785	88	.000
F3F1	.130	88	**.001**	.919	88	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentiles 25th	50th (Median)	75th
F1 folikuler 5 mm	88	-1.0443	.52069	-2.99	.00	-1.3250	-.9900	-.6900
F2 ovulasi 5 mm	88	-.9980	.48530	-2.86	.00	-1.3325	-.9600	-.6650
F3 luteal 5 mm	88	-1.0505	.56679	-3.51	-.23	-1.3000	-1.0050	-.7050

Friedman Test

Ranks

	Mean Rank
F1 folikuler 5 mm	1.90
F2 ovulasi 5 mm	2.14
F3 luteal 5 mm	1.97

Test Statistics[a]

N	88
Chi-Square	2.729
df	2
Asymp. Sig.	**.256**

a. Friedman Test

7 mm

Descriptives

			Statistic	Std. Error
F2F1	Mean		.0927	.03551
	95% Confidence Interval for Mean	Lower Bound	.0222	
		Upper Bound	.1633	
	5% Trimmed Mean		.0899	
	Median		.0050	
	Variance		.111	
	Std. Deviation		.33308	
	Minimum		-1.02	
	Maximum		.90	
	Range		1.92	
	Interquartile Range		.41	
	Skewness		.215	.257
	Kurtosis		.927	.508
F3F2	Mean		-.0458	.03855
	95% Confidence Interval for Mean	Lower Bound	-.1224	
		Upper Bound	.0308	
	5% Trimmed Mean		-.0267	
	Median		.0200	
	Variance		.131	
	Std. Deviation		.36164	
	Minimum		-1.33	
	Maximum		1.42	
	Range		2.75	
	Interquartile Range		.31	
	Skewness		-.571	.257
	Kurtosis		4.644	.508
F3F1	Mean		.0469	.03338
	95% Confidence Interval for Mean	Lower Bound	-.0194	
		Upper Bound	.1133	
	5% Trimmed Mean		.0522	
	Median		.0200	
	Variance		.098	
	Std. Deviation		.31318	
	Minimum		-.85	
	Maximum		.73	
	Range		1.58	
	Interquartile Range		.38	
	Skewness		-.205	.257
	Kurtosis		.707	.508

Percentiles

		Percentiles						
		5	10	25	50	75		
Weighted Average(Definition 1)	F2F1	-.4110	-.2300	-.1175	.0050	.2950		
	F3F2	-.7895	-.4540	-.1625	.0200	.1500		
	F3F1	-.4960	-.3300	-.1275	.0200	.2550		
Tukey's Hinges	F2F1			-.1150	.0050	.2900		
	F3F2			-.1550	.0200	.1500		
	F3F1			-.1250	.0200	.2500		

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F2F1	.153	88	**.000**	.953	88	.003
F3F2	.167	88	**.000**	.858	88	.000
F3F1	.087	88	**.097**	.977	88	.127

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentiles 25th	50th (Median)	75th
F1 folikuler 7 mm	88	-1.1857	.59777	-3.36	.42	-1.5300	-1.1400	-.8100
F2 ovulasi 7 mm	88	-1.0930	.54542	-3.35	.00	-1.3875	-1.0400	-.7225
F3 luteal 7 mm	88	-1.1387	.61559	-4.21	.00	-1.4500	-1.0500	-.7150

Friedman Test

Ranks

	Mean Rank
F1 folikuler 7 mm	1.89
F2 ovulasi 7 mm	1.99
F3 luteal 7 mm	2.12

Test Statistics[a]

N	88
Chi-Square	2.357
df	2
Asymp. Sig.	**.308**

a. Friedman Test

Status Refraksi

Descriptives

			Statistic	Std. Error
F2F1	Mean		-.0889	.02282
	95% Confidence Interval for Mean	Lower Bound	-.1342	
		Upper Bound	-.0435	
	5% Trimmed Mean		-.0907	
	Median		-.1200	
	Variance		.046	
	Std. Deviation		.21408	
	Minimum		-.53	
	Maximum		.62	
	Range		1.15	
	Interquartile Range		.25	
	Skewness		.158	.257
	Kurtosis		.530	.508
F3F2	Mean		-.0078	.06100
	95% Confidence Interval for Mean	Lower Bound	-.1291	
		Upper Bound	.1134	
	5% Trimmed Mean		.0554	
	Median		.1200	
	Variance		.327	
	Std. Deviation		.57221	
	Minimum		-4.50	

	Maximum		.65	
	Range		5.15	
	Interquartile Range		.32	
	Skewness		-5.810	.257
	Kurtosis		44.161	.508
F3F1	Mean		-.0967	.05486
	95% Confidence Interval for Mean	Lower Bound	-.2057	
		Upper Bound	.0123	
	5% Trimmed Mean		-.0351	
	Median		.0000	
	Variance		.265	
	Std. Deviation		.51459	
	Minimum		-4.50	
	Maximum		.37	
	Range		4.87	
	Interquartile Range		.25	
	Skewness		-7.415	.257
	Kurtosis		63.050	.508

Percentiles

		Percentiles						
		5	10	25	50	75		
Weighted Average(Definition 1)	F2F1	-.5000	-.3800	-.2475	-.1200	.0000		
	F3F2	-.5660	-.3800	-.0900	.1200	.2350		
	F3F1	-.5000	-.2500	-.1300	.0000	.1200		
Tukey's Hinges	F2F1			-.2450	-.1200	.0000		
	F3F2			-.0600	.1200	.2300		
	F3F1			-.1300	.0000	.1200		

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F2F1	.162	88	**.000**	.958	88	.006
F3F2	.268	88	**.000**	.516	88	.000
F3F1	.303	88	**.000**	.360	88	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentiles 25th	50th (Median)	75th
F1 FOLIKULER	88	-.6943	.81739	-2.50	.87	-1.0000	-.5000	-.1200
F2 OVULASI	88	-.7832	.81837	-2.87	.62	-1.1200	-.6200	-.2500
F3 LUTEAL	88	-.7910	.96136	-5.00	.87	-1.1200	-.5000	-.2500

Friedman Test

Ranks

	Mean Rank
F1 FOLIKULER	2.20
F2 OVULASI	1.69
F3 LUTEAL	2.11

Test Statistics[a]

N	88
Chi-Square	17.025
df	2
Asymp. Sig.	**.000**

a. Friedman Test

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum	Percentiles 25th	50th (Median)	75th
F1 FOLIKULER	88	-.6943	.81739	-2.50	.87	-1.0000	-.5000	-.1200
F2 OVULASI	88	-.7832	.81837	-2.87	.62	-1.1200	-.6200	-.2500
F3 LUTEAL	88	-.7910	.96136	-5.00	.87	-1.1200	-.5000	-.2500

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
F2 OVULASI - F1 FOLIKULER	Negative Ranks	49[a]	35.79	1753.50
	Positive Ranks	19[b]	31.18	592.50
	Ties	20[c]		
	Total	88		
F3 LUTEAL - F2 OVULASI	Negative Ranks	22[d]	40.61	893.50
	Positive Ranks	47[e]	32.37	1521.50
	Ties	19[f]		
	Total	88		
F3 LUTEAL - F1 FOLIKULER	Negative Ranks	31[g]	34.52	1070.00
	Positive Ranks	25[h]	21.04	526.00
	Ties	32[i]		
	Total	88		

a. F2 OVULASI < F1 FOLIKULER
b. F2 OVULASI > F1 FOLIKULER
c. F2 OVULASI = F1 FOLIKULER
d. F3 LUTEAL < F2 OVULASI
e. F3 LUTEAL > F2 OVULASI
f. F3 LUTEAL = F2 OVULASI
g. F3 LUTEAL < F1 FOLIKULER
h. F3 LUTEAL > F1 FOLIKULER
i. F3 LUTEAL = F1 FOLIKULER

Test Statistics[a]

	F2 OVULASI - F1 FOLIKULER	F3 LUTEAL - F2 OVULASI	F3 LUTEAL - F1 FOLIKULER
Z	-3.565[b]	-1.884[c]	-2.239[b]
Asymp. Sig. (2-tailed)	**.000**	.060	**.025**

a. Wilcoxon Signed Ranks Test
b. Based on positive ranks.
c. Based on negative ranks.

UJI KORELASI CCT vs IMT, CCT vs SE

Kruskal-Wallis Test

Ranks

	Stgizi ordinal	N	Mean Rank
CCT F1	1 (IMT rendah)	4	57.13
	2 (IMT normal)	38	48.12
	3 (IMT tinggi)	46	40.41
	Total	88	
CCT F2	1 (IMT rendah)	4	58.75
	2 (IMT normal)	38	48.74
	3 (IMT tinggi)	46	39.76
	Total	88	
CCT F3	1 (IMT rendah)	4	58.75
	2 (IMT normal)	38	48.88
	3 (IMT tinggi)	46	39.64
	Total	88	

Test Statistics[a,b]

	CCT F1	CCT F2	CCT F3
Kruskal-Wallis H	2.917	3.874	4.027
df	2	2	2
Asymp. Sig.	.233	.144	.134

a. Kruskal Wallis Test
b. Grouping Variable: Stgizi ordinal

Pearson CCT vs SE

Correlations

		transf_SEF1	transf_CCTF1
transf_SEF1	Pearson Correlation	1	-.196
	Sig. (2-tailed)		.067
	N	88	88
transf_CCTF1	Pearson Correlation	-.196	1
	Sig. (2-tailed)	.067	
	N	88	88

Correlations

		transf_SEF2	transf_CCTF2
transf_SEF2	Pearson Correlation	1	-.175
	Sig. (2-tailed)		.102
	N	88	88
transf_CCTF2	Pearson Correlation	-.175	1
	Sig. (2-tailed)	.102	
	N	88	88

Correlations

		transf_SEF3	transf_CCTF3
transf_SEF3	Pearson Correlation	1	-.061
	Sig. (2-tailed)		.573
	N	88	88
transf_CCTF3	Pearson Correlation	-.061	1
	Sig. (2-tailed)	.573	
	N	88	88