

DAFTAR PUSTAKA

- AKIHARU, K. & MASAYUKI, A. 2019. Skin Barrier. *In*: SEWON KANG, MASAYUKI AMAGAI, ANNA L. BRUCKNER, H., A., DAVID J. MARGOLIS, AMY J. MCMICHAEL & JEFFREY S. ORRINGER (eds.) *Fitzpatrick's Dermatology*. USA: McGraw-Hill Education.
- ARAMO, I. 2012. Skin and Hair Diagnosis System. *Sungnam: Aram HuvisKorea Ltd.*
- BAUMANN, L. 2007. Skin ageing and its treatment. *The Journal of Pathology: A Journal of the Pathological Society of Great Britain Ireland*, 211, 241-251.
- BLAESS, M. & DEIGNER, H.-P. 2019. Derailed ceramide metabolism in atopic dermatitis (AD): a causal starting point for a personalized (basic) therapy. *International Journal of Molecular Sciences*, 20, 3967.
- BPS. 2021. *Jumlah Penduduk Menurut Kelompok Umur dan Jenis Kelamin, 2021* [Online]. Jakarta: Badan Pusat Statistik. [Accessed].
- CHUDZIK, A., ORZYŁOWSKA, A., ROLA, R. & STANISZ, G. J. 2021. Probiotics, prebiotics and postbiotics on mitigation of depression symptoms: modulation of the brain–gut–microbiome axis. *Biomolecules*, 11, 1000.
- EVANGELISTA, M., VILAÇA, M., ALMEIDA, I. F. & PEREIRA, M. G. 2022. Quality of life in female users of antiageing cosmetic products/aesthetic treatments. *International Journal of Cosmetic Science*.
- FIDANZA, M., PANIGRAHI, P. & KOLLMANN, T. R. 2021. Lactiplantibacillus plantarum–nomad and ideal probiotic. *Frontiers in Microbiology*, 2911.
- GAO, T. *et al.* (2023) “The Role of Probiotics in Skin Health and Related Gut–Skin Axis: A Review,” *Nutrients*, 15(14).
- GUPTA, M. A. 2015. Aging skin: some psychosomatic aspects. *Textbook of aging skin. Berlin/Heidelberg: Springer*, 1-19.
- JO, C. S., MYUNG, C. H., YOON, Y. C., AHN, B. H., MIN, J. W., SEO, W. S., LEE, D. H., KANG, H. C., HEO, Y. H. & CHOI, H. 2022. The Effect of Lactobacillus plantarum Extracellular Vesicles from Korean Women in Their 20s on Skin Aging. *Current Issues in Molecular Biology*, 44, 526-540.
- JOHN, S. A. E., FAHMI TAMAMI, M. & HIDAJAT, D. 2022. Mikrobioma Kulit dan Peran Probiotik Pada Dermatitis Atopik. *Jurnal Kedokteran*, 11, 739-746.
- JUNG, Y.O. *et al.* (2019) “Lysates of a probiotic, lactobacillus rhamnosus, can improve skin barrier function in a reconstructed human epidermis model,” *International Journal of Molecular Sciences*, 20(17).
- KIM, H. *et al.* (2020) “Effect of paraprobiotic prepared from Kimchi-derived Lactobacillus plantarum K8 on skin moisturizing activity in human keratinocyte,” *Journal of Functional Foods*, 75(June), hal. 104244.

- KONSTANTINOOU, G. N. 2017. Enzyme-linked immunosorbent assay (ELISA). *Food Allergens*. Springer.
- LI, Z., BAI, X., PENG, T., YI, X., LUO, L., YANG, J., LIU, J., WANG, Y., HE, T. & WANG, X. 2020. New insights into the skin microbial communities and skin aging. *Frontiers in microbiology*, 11, 565549.
- LEE, D.E. *et al.* (2015) "Clinical evidence of effects of *Lactobacillus plantarum* HY7714 on skin aging: A randomized, double blind, placebo-controlled study," *Journal of Microbiology and Biotechnology*, 25(12), hal. 2160–2168.
- MATHIAS-BRÜGGEN-STR. 2022. *The World's Most Popular Skin Hydration Measurement Instrument* [Online]. Kohn Courage + Khazaka electronic GmbH. [Accessed].
- MICHELLE, L. K., ANNA, L. C. & SEWON, K. 2019. Skin Aging. *In*: SEWON KANG, MASAYUKI AMAGAI, ANNA L. BRUCKNER, H., A., DAVID J. MARGOLIS, AMY J. MCMICHAEL & JEFFREY S. ORRINGER (eds.) *Fitzpatrick's Dermatology*. USA: McGraw-Hill Education.
- NAM, B. *et al.* (2020) "Regulatory effects of *Lactobacillus plantarum* HY7714 on skin health by improving intestinal condition," *PLoS ONE*, 15(4), hal. 1–14.
- RA, J., LEE, D. E., KIM, S. H., JEONG, J.-W., KU, H. K., KIM, T.-Y., CHOI, I.-D., JEUNG, W., SIM, J.-H. & AHN, Y.-T. 2014. Effect of oral administration of *Lactobacillus plantarum* HY7714 on epidermal hydration in ultraviolet B-irradiated hairless mice. *Journal of Microbiology Biotechnology*, 24, 1736-1743.
- RATANAPOKASATIT, Y., LAISUAN, W., RATTANANUKROM, T., PETCHLORLIAN, A., THAIPISUTTIKUL, I. & SOMPORN RATTANAPHAN, M. 2022. How Microbiomes Affect Skin Aging: The Updated Evidence and Current Perspectives. *Life*, 12, 936.
- SHIN, K.-O., MIHARA, H., ISHIDA, K., UCHIDA, Y. & PARK, K. 2022. Exogenous Ceramide Serves as a Precursor to Endogenous Ceramide Synthesis and as a Modulator of Keratinocyte Differentiation. *Cells*, 11, 1742.
- SKOWRON, K., BAUZA-KASZEWSKA, J., KRASZEWSKA, Z., WIKTORCZYK-KAPISCHKE, N., GRUDLEWSKA-BUDA, K., KWIECIŃSKA-PIRÓG, J., WAŁECKA-ZACHARSKA, E., RADTKE, L. & GOSPODAREK-KOMKOWSKA, E. 2021. Human skin microbiome: impact of intrinsic and extrinsic factors on skin microbiota. *Microorganisms*, 9, 543.
- TARAWAN, V. M., ANISSA, A., SUTEDJA, E. & LESMANA, R. 2016. Efek Penggunaan Probiotik Topikal Terhadap Ekspresi MMP-13 dan Kolagen III pada Lapisan Dermis Tikus yang Dipapar Sinar Ultraviolet-B. *Indonesian Journal of Clinical Pharmacy*, 5, 138-148.
- TSAI, W.H. *et al.* (2021) "Regulatory effects of *Lactobacillus plantarum*-GMNL6 on human skin health by improving skin microbiome," *International Journal of Medical Sciences*, 18(5), hal. 1114–1120.

- TSAI, W.-H., CHOU, C.-H., HUANG, T.-Y., WANG, H.-L., CHIEN, P.-J., CHANG, W.-W. & LEE, H.-T. 2021. Heat-Killed Lactobacilli Preparations Promote Healing in the Experimental Cutaneous Wounds. *Cells*, 10, 3264.
- Qingdao Vland Biotech Co., Ltd., 596-1 Jiushui East Road, Laoshan District, Qingdao 266102, China. ²ADM, Nutrition, Health and Wellness, Biopolis S.L., Parc Científic Universitat de València, C/ Catedrático Agustín Escardino Benlloch, 9, 46980 Paterna, Spain. *email: duanzhi@vlandgroup.com
- YE-ON JUNG, HAENGDUENG JEONG, ET AL. 2019. Lysates of Probiotic, Lactobacillus rhamnosus, Can Improve Skin Barrier Function in a Reconstructed Human Epidermis Model. 20, 4289; doi:10.3390/ijms20174289
- WASLIATI, B., PANGKAHILA, W. & WIRAGUNA, A. A. G. P. 2021. The application of black garlic (*Allium sativum* linn) extract cream in preventing the increase level of MMP-1 expression and the decrease of dermal collagen count in the skin of male wistar rats (*Rattus norvegicus*) exposed to UV-B Rays. *IJAAM*, 5, 88-92.
- WHO, W. H. O. 2022. Ageing and health.
- WORLD INTELLECTUAL PROPERTY ORGANIZATION (2020) "Lactobacillus Plantarum For Skin Care," *International Application Published Aunder Patent Cooperation Treaty* [Preprint].
- ŻÓŁKIEWICZ, J., MARZEC, A., RUSZCZYŃSKI, M. & FELESZKO, W. 2020. Postbiotics—a step beyond pre-and probiotics. *Nutrients*, 12, 2189.

LAMPIRAN

Sampel Lotion A

No.	Tanggal Lahir	Jenis Kelamin	No. HP	W-0				W-2				W-4				W-6				W-8			
				Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah
1	09-Apr-89	Perempuan	82187846188	30.03	34.96	39.33	43.8	45.06	40.86	49.36	53.83	54.26	57.02	64.73	63.01	55.92	58.62	65.28	65.55	60.19	62.65	70.82	72.82
2	21 Januari 1990	Perempuan	8124124532	36.02	40.46	33.66	39.56	47.07	51.08	53.13	50.01	49.12	55.67	55.35	54.17	52.94	58.74	57.62	61.02	61.27	62.93	74.91	70.28
3	04 Maret 1984	Perempuan	8194172453	90.6	90.8	88.23	85.2	56.04	50.63	69.04	51.66	118.23	112.09	117.36	120	116.04	112.46	120	115.62	115.82	100.62	118.42	118.58
4	31 Desember 1985	Laki-laki	85342188800	93.7	110.83	108.2	84.56	110.33	89.04	106.33	102.66	104.17	82.06	113.53	102.96	100.62	84.62	113.22	100.80	104.77	86.81	118.04	101.32
5	26 Agustus 1992	Laki-laki	85399778835	37.63	41	54	41.46	93.02	77.23	69.56	57.05	94.29	83.89	73.52	63.36	95	84.66	75	62.98	96.26	88.60	78.25	65.13
6	2 Juli 1993	Perempuan	85212452378	68.80	61.06	67.2	49.03	73.46	55.63	74.76	53.33	68.76	62.04	71.23	63.43	70.22	65.66	72.98	65.85	82.36	79.27	87.65	68.68
7	18 Mei 1986	Perempuan	81342378425	80.30	61.08	76.4	61.03	68.66	51.7	62.03	55.08	108.03	97.04	118.63	109.43	106.28	97.58	116.84	105.26	108.52	100.22	118.44	105.67
8	03-Sep-88	Perempuan	81342942027	40.21	37.58	39.52	42.35	44.35	42.52	49.45	43.38	49.12	45.32	45.43	45.14	53.62	66.18	52.68	52.46	55.05	69.73	58.29	61.40
9	17 Oktober 1991	Perempuan	81287164778	44.21	36.02	45.41	40.12	48.52	42.62	51.20	44.25	48.90	48.51	53.32	47.13	52.62	56.94	55.06	52.23	60.02	65	58.26	58.83
10	3 Juni 1984	Laki-laki	8124271650	42.15	40.43	48.51	46.03	45.82	48.16	49.02	49.03	49.72	53.82	59.13	52.63	52	54	62.64	55.88	56.33	55.84	71.03	58.04
11	05-Apr-88	Perempuan	8124221457	58.01	47.02	48.66	57.16	58.92	48.82	48.71	58.55	63.82	52.39	53.44	57.73	65.82	55.83	55.10	60.06	68.80	58.93	58.61	68.70
12	15 Februari 1984	Laki-laki	82353187394	69.73	49.63	69.23	50.03	69.95	50.15	72.35	55.23	72.01	51.14	70.27	56.27	75.56	52.42	70.12	57.65	78.55	56.28	78.52	62.03
13	18 Maret 1985	Laki-laki	82312675321	95.76	79.13	89.03	59.26	95.91	80.25	94.23	63.12	99.46	85.17	95.10	68.34	101.23	92.04	96.64	70.48	105.02	92.33	99.41	72.45
14	21 Mei 1992	Laki-laki	8123265489	78.33	68.03	70.08	46.66	80.55	71.28	72.85	48.44	81.62	74.79	73.38	53.58	85.89	76.68	75.62	55.26	92.47	76.78	85.90	58.67
15	1 Juni 1984	Perempuan	85298809528	50.93	56.23	62.04	70.03	51.82	61.26	63.87	72.59	55.73	65.43	71.29	73.42	58.28	65.91	72.56	78.21	59.09	68.40	75	80.99
16	23-Sep-84	Perempuan	81342314367	33.23	43.23	30.46	34.76	42.75	48.43	42.78	40.31	46.82	48.39	48.19	45.27	47.33	50.51	50.03	47.73	52.88	58.91	68.63	50.05
17	17-Apr-87	Perempuan	85362936167	47.56	36.03	40.73	40.53	52.93	38.83	52.15	55.38	50.63	42.64	52.94	56.49	51.62	43.88	55.04	58.85	54.27	52.73	69.66	66.92
18	26 Desember 1984	Perempuan	8124267349	52	52.83	43.26	49.36	52.84	53.51	48.29	49.16	55.25	58.19	52.63	56.12	58.03	62	61.26	61.11	57.52	67.27	67.11	62.7
19	23 Mei 1986	Perempuan	85245196389	54.23	43.76	34.09	39.46	61.52	55.49	40.28	42.53	59.39	58.63	45.77	46.04	60.27	61.43	51.28	47.75	70.05	65.02	62.28	55.84
20	18-Sep-92	Perempuan	8524396250	52.03	45.42	51.49	47.72	55.83	47.72	56.83	50.31	57.82	47.91	58.72	48.43	60.42	47.85	65.84	52.46	65.78	51.31	64.02	56.28
21	24 Juni 1988	Perempuan	8161933767	41.35	47.42	48.33	40.69	51.52	55.86	52.95	45.74	52.94	58.73	55.01	49.82	55.48	62.96	61.55	50.02	58.21	66	67.33	60.03
22	12 Juli 1988	Laki-laki	81291594700	51.94	50.58	47.25	42.86	53.82	59.63	50.62	49.57	57.73	60.38	51.65	53.05	62.67	62.72	58.33	58.91	65.84	68.62	58.82	62.93
23	09-Apr-88	Perempuan	8170080137	58.46	49.32	54.02	57.22	58.69	48.52	59.37	59.35	61.39	51.37	59.26	60.25	63.59	55.37	60.66	60.79	68	54.21	72.36	67.70
24	15 Maret 1986	Perempuan	81230008287	62.68	53.47	58.73	57.96	61.32	55.52	56.27	58.89	63.52	57.74	60.06	61.38	65.27	60.54	62.19	65.97	69.31	72.55	68.37	68.61
25	22-Apr-87	Perempuan	82280551988	52.71	42.15	44.21	43.67	55.94	45.73	49.83	49.09	57.28	59.87	55.37	68.84	60.71	61.92	56.08	77	68.43	69.26	58.01	
26	27 Oktober 1993	Perempuan	81318875338	46.37	44.29	53.04	51.62	51.18	57.84	56.83	53.36	53.85	58.94	61.32	58.48	58.77	63.48	65.83	60.57	64.91	67.72	64.82	68.48
27	31 Maret 1994	Laki-laki	89668429697	38.53	35.86	39.03	38.71	41.62	36.27	42.66	40.32	42.93	43.82	45.36	43.74	45.86	48.32	52.71	48.06	66.38	53.68	63.71	55.69
28	5 Agustus 1991	Laki-laki	81342851077	52.83	47.54	52.74	45.04	55.54	50.72	57.38	48.87	57.82	58.10	52.53	53.28	65	61.20	55.37	52.71	68.88	68.62	58.20	55.68
29	10 Juni 1988	Perempuan	811839847	55.49	53.87	61.06	50.93	57.82	58.63	60.25	52.84	60.93	60.51	61.52	55.86	61.11	64.79	68.26	60.05	68.09	75.70	76.12	67.30
30	5 Maret 1990	Laki-laki	8122878899	39.72	36.49	41.28	43.57	41.93	37.36	42.64	42.73	46.68	39.08	47.26	45.22	52	46.82	50.42	55.31	52.85	58.13	56.48	58.82

Sampel Lotion B

No.	Tanggal lahir	Jenis Kelamin	No. HP	W-0				W-2				W-4				W-6				W-8			
				Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah	Lki atas	Lki bawah	Lka atas	Lka bawah
1	12 Desember 1985	Perempuan	82189115556	51.03	57.23	64.7	62.9	73.01	58.96	63.03	63.36	69.06	68.23	76.05	63.46	70.22	70.65	78.28	65	65.22	71.27	78.11	66.27
2	1 Februari 1991	Laki-laki	81283788601	44.23	58.5	33.86	35.21	110.02	114.33	85.06	110.56	110.09	111.93	72.76	113.13	111.16	112.46	74.91	115.91	103.65	112.62	77.10	100.32
3	15-Apr-1984	Perempuan	81342234123	58.01	60	59.08	59.8	116.73	119.43	88.03	114.08	120	117.76	97.73	120	118.30	100.62	103.22	112	115.26	95.61	93.47	102.36
4	16 Oktober 1984	Perempuan	8114016111	31.08	37.76	40.26	36.86	40.16	52.36	42.76	40.03	46.43	55.32	46.21	43.27	51.28	56.44	47.82	45.90	52.93	57	45.26	46.58
5	10 Agustus 1992	Perempuan	8114704275	55.53	45.16	49.36	44.76	95.08	69.73	74.06	55.07	61.33	53.03	51.16	51.33	62.77	54.83	52.84	53.13	63.67	56.21	52.21	54.39
6	20 Juni 1986	Laki-laki	82230308858	94.23	73.36	112.6	75.26	86.66	89.12	129.86	100.66	95.09	107.09	112.73	107.76	98.53	105.28	108.28	104.21	99.27	112.08	110.92	106.17
7	26 Desember 1987	Perempuan	85256671969	50.73	54.4	55.63	52.63	55.32	62.10	54.23	55.23	58.03	62.98	57.37	61.28	61.26	65.22	60	63.22	62.63	67.27	60.68	64.92
8	29 Februari 1994	Perempuan	82129024242	48.52	39.32	55.32	42.39	52.02	42.42	56.44	57.12	52.55	45.43	57.71	60.37	55.05	42.38	58.92	61.40	56.83	45.72	57.88	64.80
9	12-Sep-1993	Perempuan	82214244333	38.43	35.23	41.23	39.42	46.21	42.02	51.24	46.33	47.32	45.44	57.12	48.66	48.68	46.81	58.26	50.14	50	48.94	58.02	54.74
10	2-Sep-1985	Perempuan	8124235123	82.04	83.63	83.03	90.82	82.41	81.27	82.63	87.62	83.63	84.19	82.14	85.29	85.56	83.75	84.01	85.62	86.72	86.50	80.73	87.22
11	4 Mei 1991	Laki-laki	82338461023	47.45	41.69	36.52	40.19	51.62	46.28	36.97	41.29	52.83	51.29	42.73	45.22	55	52.81	45.26	46.36	56.73	53.53	48.64	47.77
12	27 Juni 1993	Laki-laki	82354823653	101.96	89.63	103.06	104.56	105.12	87.36	100.45	107.35	106.17	95.27	101.46	105.38	102.95	97.28	100.26	106.41	104.90	95.02	102.80	106.78
13	4-Apr-1987	Laki-laki	82187853671	50.53	50.05	67.36	43.26	52.88	53.43	67.89	47.95	55.72	68.23	72.16	52.93	56.02	65.33	70.48	53.72	58.35	67.80	71.03	55.20
14	7 Desember 1984	Perempuan	82184894628	36.04	40.15	49.07	40.33	42.83	41.28	50.15	42.17	44.38	42.64	51.93	40.73	45.78	62.78	55.90	45.68	45.54	68.87	57.05	46.63
15	15-Nov-1987	Perempuan	8124286409	54.26	44.07	44.53	47.08	55.53	44.72	45.01	48.24	55.98	47.28	46.28	49.36	57.41	50	51.29	52.36	57.10	50.94	52.91	53.51
16	26 Agustus 1986	Laki-laki	8534723058	61.83	52.23	64.06	54.03	62.03	55.82	64.23	55.21	63.28	57.36	65.48	54.88	63.88	58.91	68.40	65	66	59.91	72.83	68.35
17	4 Mei 1992	Perempuan	8525406391	50.09	61.07	67.56	73.13	55.62	62.72	67.63	74.28	55.56	61.26	68.52	75.38	54.27	62.73	69.66	76.92	56.71	67.42	70	77.29
18	11-Apr-1985	Perempuan	81355990118	48.33	49.07	53.46	45.76	50.04	52.53	53.62	47.46	51.03	55.52	56.90	50.66	57.52	58.03	57.76	52.7	56.23	55.83	58.51	53.72
19	16-Nov-1985	Laki-laki	81355835620	65.53	78.02	57.03	51.46	65.92	79.42	56.26	50.79	68.12	80.48	58.77	52.28	70.05	75.02	62.28	55.84	71.72	76.89	63.36	50.33
20	17-Sep-1988	Perempuan	82187856244	52.73	55.69	57.58	52.63	52.87	52.75	58.52	53.94	54.62	57.98	60.01	54.62	56.78	61.26	64.02	56.42	58.81	65.83	67.52	57.85
21	8-Sep-1988	Perempuan	81223513688	56.27	53.83	60.44	52.48	56.26	54.62	61.28	52.64	58.44	55.46	62.18	61.54	58.21	53.90	65.62	60.33	59.62	55.26	67.24	62.67
22	17 Juni 1988	Perempuan	8123167890	42.63	34.55	46.38	41.26	50.88	36.20	47.82	42.92	51.58	37.91	51	45.38	55.84	48.62	52.18	50.26	57.43	52.41	56.27	52.14
23	5 Mei 1987	Laki-laki	8179875296	48.32	50.64	41.28	41.87	54.27	51.27	43.74	41.68	54.82	52.04	44.36	45	58	54.21	42.72	47.22	58.67	56.52	52.10	52.03
24	20 Maret 1990	Perempuan	81212125251	41.57	46.82	51.08	47.63	42.68	51.82	52.01	48.22	43.74	52.84	52.54	48.62	49.31	52	58.37	53.08	51.46	52.14	59.71	55.82
25	6 Mei 1990	Perempuan	85891330936	50.04	46.27	55.29	53.64	55.53	50.73	55.62	51.03	56.62	52.42	55.92	52.12	60.77	52.58	58.26	55.04	61.70	53.15	61.63	51.17
26	10 Oktober 1987	Perempuan	81283313641	43.63	50.03	48.39	47.33	43.82	52.26	49.52	48.40	46.28	52.35	51.66	50.24	52.39	54.72	54.82	51.48	52.12	51.52	53.26	52.81
27	11 Januari 1992	Laki-laki	82179209090	62.65	60.06	59.42	55.38	63.02	62.94	62.04	58.42	64.26	62.45	60.48	62.88	66.38	63.20	63.71	65.62	64.02	64.79	64.13	66.20
28	6 Februari 1988	Perempuan	82134048753	38.25	41.27	40.38	43.37	40.22	42.62	43.28	44.52	42.48	45.12	46.31	48.02	46.18	48.62	52.92	50.26	47.83	46.47	53.18	51.23
29	14-Apr-1987	Perempuan	81919688877	42.25	48.41	49.32	50.17	42.31	46.28	50.88	52.35	45.76	48.86	51.62	53.48	48.28	55.70	56.66	55.08	50	55	57.92	56.84
30	18 Mei 1988	Laki-laki	82112095609	53.72	50.05	47.26	51.93	55.03	48.32	48.62	52.02	56.73	49.52	52.92	52.76	58.01	50.29	55.40	51.03	60.25	52.92	58	53.62



REKOMENDASI PERSETUJUAN ETIK

Nomor : 299/UN4.6.4.5.31/ PP36/ 2024

Tanggal: 3 Mei 2024

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

No Protokol	UH24040251	No Sponsor	
Peneliti Utama	dr. Jennifer Michelle Widysanto	Sponsor	
Judul Peneliti	Perbandingan Efektivitas Lactobacillus Plantarum Topikal dan Lactobacillus Rhamnosus Topikal Terhadap Hidrasi Kulit		
No Versi Protokol	2	Tanggal Versi	2 Mei 2024
No Versi PSP	2	Tanggal Versi	2 Mei 2024
Tempat Penelitian	RS Universitas Hasanuddin, RSUP. Dr. Wahidin Sudirohusodo dan Jejaring di Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 3 Mei 2024 sampai 3 Mei 2025	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Prof. dr. Muh Nasrum Massi, PhD, SpMK, Subsp. Bakt(K)	Tanda tangan 	
Sekretaris KEP Universitas Hasanuddin	dr. Firdaus Hamid, PhD, SpMK(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 Laporan 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 protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan