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# LAMPIRAN

Lampiran 1. Data Primer Pemeriksaan *Homocystein* Serum

NO	KODE SAMPEL	JENIS KELAMIN	UMUR	TB	BB	IMT	GDP	TEKANAN DARAH		Hcys
1	2	P	28	150	51.2	27.2	68.5	110	70	11.22
2	3	P	27	150	41.5	18.4	79	100	70	9,65
3	4	P	30	148	47.2	21.5	96	100	60	9.96
4	5	P	31	158	63.8	25.6	75.3	100	60	10,31
5	6	P	34	152	54.3	23.5	100	120	80	9.53
6	7	L	30	163.5	67	25.1	95.9	120	70	8,00
7	9	P	32	148.5	53.6	24.3	84.8	110	80	7,81
8	12	P	29	155.5	63.7	26.3	93.9	110	70	8,99
9	13	P	26	162	70.3	26.8	80	110	70	8,32
10	14	P	28	146.5	43.3	20.2	85.7	90	60	9,25
11	15	P	33	148	62.1	28.4	90.7	110	70	6,60
12	16	P	34	148	57.8	26.4	91.3	110	80	6,34
13	17	P	35	155.5	56	23.2	102.5	100	60	6,82
14	18	L	30	168	70.1	24.8	80.9	120	80	8,29
15	21	P	29	155	45.6	19	93.2	100	70	6,71
16	24	P	30	155	62.9	26.2	93.6	100	70	6,20
17	25	P	30	157	58.3	23.7	109	110	80	10,99
18	26	L	28	167	64.1	23	101.4	110	70	10,99
19	28	P	31	153	49.8	21.3	102.8	100	70	7,00
20	29	P	36	155	69.1	28.8	89.3	98	60	7,29
21	31	P	38	147	55.3	25.6	89.1	114	80	8,68
22	33	P	30	157	62.2	25.2	92.6	120	89	6,54
23	35	P	35	145	70	26	101	120	80	10,73
24	37	P	35	159	67.1	26.5	97	120	80	5,75
25	38	L	30	170	66	22.8	88	120	70	10,90
26	39	P	30	155	60	25	91	120	70	8,07
27	40	L	31	167	80	29	102	120	80	7,00
28	43	L	31	165	62	22.8	95	120	80	10,55
29	44	P	27	164	41.2	15.3	92	110	70	11,66
30	45	L	35	162	59.7	22.7	96	120	70	9,49
31	46	L	35	160	57.1	22.3	99	120	70	11,74
32	47	P	35	154	60.4	25.5	91	120	80	9,37
33	48	L	38	154	52	21.9	93	101	70	9,19
34	51	L	29	155	47.1	19.6	96.2	120	70	9,92
35	52	L	29	165	76.8	28.2	117	120	80	9,83
36	53	P	36	150	64.5	28.7	93.2	120	80	18,85
37	54	P	34	155	51.5	21.4	86	110	70	9,05
38	55	L	31	148	62.6	28.4	98	120	80	6,97
39	56	L	36	181	82.6	25.2	94	120	80	9,12
40	59	P	33	154	67.1	28.3	96	120	80	11,20
41	61	L	28	169.5	82.5	28.7	106	110	70	9,62
42	62	P	30	152.5	42	18.1	95	120	70	10,03

43	63	P	31	156.5	46.2	18.9	97	120	80	7,67
44	64	L	34	164	81.3	30.2	87	120	80	9,41
45	65	P	37	157	72.8	29.5	106	120	80	8,10
46	67	L	30	166	71.6	26	94	120	80	12,21
47	71	L	29	159	59.4	23.5	100	120	80	7,03
48	72	P	31	155	45.1	18.3	90	120	70	7,76
49	73	P	29	155	56.6	23.6	94	120	80	11,59
50	75	P	31	158	66.9	26.8	88	110	70	7,58
51	76	L	32	165	73.2	26.9	111	120	80	6,61
52	77	L	40	158	59.6	23.9	91	110	70	9,30
53	78	L	22	162	55.8	21.3	108	120	80	14,23
54	79	L	26	166	83.6	30.3	109	120	80	8,30
55	81	L	26	170	72.9	25.2	95	110	70	7,74
56	82	L	26	163	56.5	21.3	95	120	70	15,18
57	83	L	26	165	62	22.8	92	120	80	12,67
58	84	L	32	172	58.5	19.8	85	120	65	12,19
59	85	L	20	163	65.3	24.6	77.8	120	70	8,45
60	88	L	33	172	70.4	23.5	95	120	80	11,22
61	89	L	38	160	76.4	29.8	93	120	80	10,81
62	90	L	21	177	92.1	29.4	92	110	80	12,29
63	91	L	39	173	92.7	31	92	120	70	9,19
64	95	L	37	162	64.9	24.7	102.6	110	70	10,82
65	96	L	27	178	83.1	26.2	76.6	120	90	12,42
66	97	L	20	154	38	16.2	99.1	100	70	6,92
67	99	L	35	177	84.7	27	97.2	120	80	7,62
68	100	L	25	169	66.5	23.3	96.4	120	80	10,82
69	101	P	34	151	57.8	25.3	101	100	60	8,61
70	103	P	33	153	50.5	21.6	100	100	60	5,76
71	104	P	39	159	46.8	18.5	92	100	70	13,64
72	106	P	39	151	54.5	23.7	88	110	70	10,69
73	107	P	32	158	49.8	17.6	101	110	60	11,44
74	109	P	40	163	54.3	20.4	98	110	70	5,94
75	110	P	37	153	66.3	28.3	83	120	80	9,47
76	111	P	34	162	54.6	20.8	89	110	70	12,43
77	112	P	35	156	49.9	20.5	95	100	70	10,34
78	113	P	24	152	43.2	18.7	85	120	80	9,42
79	114	P	33	146	61.4	28.1	98	100	60	8,02
80	115	P	39	152	91	24.6	84	110	70	14,32
81	116	P	33	155	39.3	16.4	82	110	60	6,89
82	117	P	38	166	59.1	21.4	87	100	60	7,90
83	118	P	32	158	59.7	23.9	93	110	60	8,86
84	121	P	32	155	47.2	19.6	97.9	110	70	8,21
85	123	P	40	157	63	25.6	87	110	70	12,11
86	124	P	35	156	66.8	27.4	91	110	80	14,30
87	127	P	23	162	60.4	23	83	120	80	12,16
88	128	P	22	150	40.9	18.2	78	110	90	10,38
89	130	P	22	153	51.1	21.8	80	110	80	9,80



90	131	P	35	154	61.4	25.9	90	120	70	10,31
91	132	P	29	153	66.4	26.2	93	110	80	13,56
92	140	P	37	157	64.3	26.1	88.5	100	60	10,03
93	142	P	37	150	60	26.7	77.2	110	70	9,64
94	146	L	34	158	67.7	27.1	113.8	120	80	13,44
95	147	L	20	164	45.9	17.1	96.7	110	80	9,99
96	148	L	26	164	61	22.7	97.2	110	70	12,76
97	149	L	35	170	77	26.6	90.7	120	80	6,86
98	150	L	20	168	86.4	30.6	94.5	120	70	10,27
99	151	L	23	165	68	25	94.8	110	80	13,61
100	152	L	32	170	76.6	26.5	100.9	120	70	9,33
101	156	L	28	158	42	16.9	87.3	90	60	14,87
102	157	L	35	167	74.5	26.7	114.4	110	90	5,95
103	162	L	25	168	70.8	25.1	104.4	120	95	10,53
104	164	L	40	173	60.2	20.1	96.1	110	70	6,83
105	165	L	27	156	49.3	20.3	88.8	120	70	15,00
106	166	L	35	163	57.6	21.7	96.9	120	70	12,17
107	167	L	25	158	64.4	25.8	100.3	115	70	9,25
108	169	L	20	164	49.1	18.3	97.8	120	80	8,63
109	170	L	30	177	72.7	23.2	105.5	110	70	13,96
110	171	L	31	163	81.7	30.7	89.9	110	70	7,56
111	176	L	23	168	87.6	31	114.1	120	80	9,96
112	178	L	23	166	68.7	24.9	121	110	70	8,19
113	180	L	33	171	57.4	19.6	100.1	120	80	14,34
114	181	L	35	172	110.6	27.7	109.8	110	70	11,54
115	182	L	22	159	57.6	22.8	97.4	120	70	12,69
116	183	P	22	151	42.6	18.7	57.9	110	80	9,55
117	185	L	37	162	57.7	22	93.6	120	80	7,19
118	186	P	31	155	51.4	21.4	94.2	120	80	11,34
119	188	P	20	152	47.9	20.7	117.2	120	70	7,55
120	191	L	26	171	47.2	16.1	112	120	70	7,12

## Lampiran 2. Rekomendasi Etik 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

**REKOMENDASI PERSETUJUAN ETIK**

Nomor : 272/UN4.6.4.5.31/ PP36/ 2024

Tanggal: 25 April 2024

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

No Protokol	UH24030162	No Sponsor	
Peneliti Utama	<b>Muhammad Tahir H, S.Tr.Kes</b>	Sponsor	
Judul Peneliti	Analisis Nilai Reference Range Homocystein Serum Pada Populasi Dewasa Muda Sehat		
No Versi Protokol	2	Tanggal Versi	<b>22 April 2024</b>
No Versi PSP	2	Tanggal Versi	<b>22 April 2024</b>
Tempat Penelitian	RS Universitas Hasanuddin Dan RS Labuang Baji Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku <b>25 April 2024</b> sampai <b>25 April 2025</b>	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	<b>Prof. dr. Muh Nasrum Massi, PhD, SpMK, Subsp. Bakt(K)</b>	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	<b>dr. Firdaus Hamid, PhD, SpMK(K)</b>	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 prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

## Lampiran 3. Surat Pengantar Izin Penelitian



**KEMENTERIAN PENDIDIKAN KEBUDAYAAN,  
RISET DAN TEKNOLOGI  
UNIVERSITAS HASANUDDIN  
SEKOLAH PASCASARJANA**  
JL. PERINTIS KEMERDEKAAN KM. 10, MAKASSAR 90245  
TELEPON (0411) 586200, (6 SALURAN), 584200, FAX (0411) 585188  
Laman: [www.unhas.ac.id](http://www.unhas.ac.id)

Nomor : 02348/UN4.20.1/PT.01.04/2024  
Hal : Permohonan Izin Penggunaan Laboratorium

14 Maret 2024

Yth. Direktur RSPTN  
Universitas Hasanuddin  
Makassar

Dengan hormat disampaikan bahwa mahasiswa Sekolah Pascasarjana Universitas Hasanuddin yang tersebut dibawah ini :

Nama : Muhammad Tahir H  
Nomor Pokok : P062222008  
Program Pendidikan : Magister (S2)  
Program Studi : Ilmu Biomedik

Bermaksud melakukan penelitian dalam rangka persiapan penulisan tesis terkait dengan judul "Analisis Nilai Reference Range Homocystein Serum Pada Dewasa Muda Sehat".

Sehubungan dengan hal tersebut, mohon kiranya yang bersangkutan diberikan izin untuk menggunakan Laboratorium di instansi yang Bapak/Ibu Pimpin.

Atas perkenan dan kerjasamanya disampaikan terima kasih.

an. Dekan,  
Wakil Dekan Bidang Akademik dan  
Kemahasiswaan



Prof. Baharuddin Hamzah, ST., M.Arch., Ph.D.  
NIP. 196903081995121001

Tembusan:

1. Dekan SPs. Unhas "sebagai laporan";
2. Mahasiswa yang bersangkutan;
3. Pertiinggal.

Lampiran 4 Surat Keterangan Selesai penelitian di RSPTN Unhas



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
**UNIVERSITAS HASANUDDIN**  
**RUMAH SAKIT PENDIDIKAN**

Jl. Perintis Kemerdekaan Km. 10 Tamalanrea, Makassar 90245

Website [www.rs.unhas.ac.id](http://www.rs.unhas.ac.id) Email [info@rs.unhas.ac.id](mailto:info@rs.unhas.ac.id) Telp: (0411) 591331 Fax: (0411) 591332

Nomor : 5214/UN4.24.1.1/PT.01.05/2024  
Hal : **Surat Keterangan Selesai Penelitian**

07 Juni 2024

Dengan ini menerangkan bahwa mahasiswa yang beridentitas :

Nama : Muhammad Tahir H

NIM : P062222008

Institusi : Ilmu Biomedik, Pascasarjana,

Lampiran 5 Surat Keterangan Selesai Penelitian Di RSUD Labuang Baji



PEMERINTAH PROVINSI SULAWESI SELATAN  
DINAS KESEHATAN  
**UPT RUMAH SAKIT UMUM DAERAH LABUANG BAJI**

Jl. Dr. Ratulangi No. 81 Telp. 873482 Makassar

E-mail: [rsudlabuangbaji.sulsel@gmail.com](mailto:rsudlabuangbaji.sulsel@gmail.com)

**SURAT KETERANGAN**

Nomor : 400.7.3.5/103/LB-01.3/VI/2024

Yang bertanda tangan dibawah ini :

Nama : **Dra. Yustlaty Yusuf, SE., M.Si**

NIP. : 19661218 199603 2 001

Pangkat/Golongan : Pembina TK. I/IV.b

Jabatan : Kepala Bidang Pendidikan, Penelitian

Dan Inovasi

Dengan ini menerangkan bahwa :

Nama : Muhammad Tahir H

Nomor Pokok : P062222008

Program Studi : S-2 Ilmu Biomedik

Pekerjaan : Mahasiswa Universitas Hasanuddin

Alamat : Jl. BTN Tamarunang Indah G2 No.4, Gowa

Bahwa nama tersebut di atas telah melakukan Pengambilan Data Awal dan Penelitian di UPT Rumah Sakit Umum Daerah Labuang Baji dalam rangka Penyelesaian tugas akhir Ilmiah/Skripsi/Tesis pada tanggal 25 Maret 2024 s.d. 13 Juni 2024 Dengan Judul **“ANALISIS NILAI REFERENCE RANGE HOMOCYSEIN SERUM PADA POPULASI DEWASA MUDA SEHAT”**

## Lampiran 6 Daftar Riwayat Hidup

**Daftar Riwayat Hidup****A. Data Pribadi**

- |                         |                                       |
|-------------------------|---------------------------------------|
| 1. Nama                 | : Muhammad Tahir H                    |
| 2. Jenis Kelamin        | : Laki - Laki                         |
| 3. Agama                | : Islam                               |
| 4. Tempat/Tanggal Lahir | : Pa'bangiang/14 Januari 975          |
| 5. Status               | : Menikah                             |
| 6. Alamat               | : BTN Tamarunang Indah 1 Blok G2 No.4 |

**B. Riwayat Pendidikan**

1. SDN Inpres Pa'Bangiang lulus tahun 1987
2. SMPS Handayani Sungguminasa lulus tahun 1990
3. SMAK Depkes Ujung Pandang lulus tahun 1993
4. STIK Tamalatea Makassar, Jurusan AKK, Tahun Lulus 2002
5. DIII Poltekkes Kemenkes Manado Jurusan TLM lulus tahun 2018
6. DIV Poltekkes Kemenkes Makassar Jurusan TLM Lulus Tahun 2022

**C. Riwayat Pekerjaan**

1. ASN Pada RSUD Syekh Yusuf Kab. Gowa Mulai 1994-Sekarang
2. Karyawan paruh waktu pada klinik Ratulangi Medical Center mulai tahun 2011-sekarang

**D. Riwayat Organisasi**

1. Sebagai Sekretaris pada Organisasi Profesi **Patelki (Persatuan Teknologi Laboratorium Kesehatan Indonesia)** DPC Gowa.

Lampiran 7 Dokumentasi Kegiatan Penelitian

