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LAMPIRAN

Lampiran 1. ***Informed Consent***

FORMULIR PERSETUJUAN RESPONDEN

Yang bertanda tangan di bawah ini :
Nama :
Tanggal Lahir/Umur :
Alamat :
No.HP :

Saya adalah mahasiswa S2 Fakultas Kesehatan Masyarakat Universitas Hasanuddin. Penelitian ini dilaksanakan sebagai salah satu kegiatan dalam menyelesaikan tugas akhir di Fakultas Kesehatan Masyarakat Universitas Hasanuddin.

Tujuan penelitian ini untuk mengetahui mengetahui untuk mengetahui efek kombinasi daun belimbing wuluh dan daun kemangi dalam menurunkan tekanan darah kelompok prolanis di Wilayah Kerja Puskesmas Lumpue dan Puskesma Lakessi Kota Parepare.

Untuk keperluan tersebut, saya memohon kesediaan Bapak/Ibu untuk menjadi responden dalam penelitian ini, selanjutnya saya memohon kesediaan Bapak/Ibu untuk menggunakan rebusan Daun Belimbing Wuluh dan rebusan Daun Kemangi sebagai obat antihipertensi dan mengisi kuesioner dengan jujur dan apa adanya.

Bapak/Ibu menjadi responden bukan karena adanya paksaan dari pihak lain, tetapi karena keinginan Bapak/Ibu sendiri dan tidak ada biaya yang akan ditanggungkan kepada Bapak/Ibu sesuai dengan penjelasan yang sudah dijelaskan oleh peneliti. Dan percaya bahwa keamanan dan kerahasiaan data yang diperoleh sebagai responden akan terjamin dan dengan ini, Bapak/Ibu menyetujui semua informasi pada penelitian ini dan hasil penelitian ini dapat dipublikasikan dalam bentuk lisan maupun tulisan dengan tidak mencantumkan nama. Bila terjadi perbedaan pendapat dikemudian hari, peneliti akan menyelesaikannya secara kekeluargaan. Bapak/Ibu bersedia menandatangani lembar persetujuan ini sebagai bukti kesediaan sebagai responden.

Apabila terjadi komplikasi atau terdapat masalah pada saat jalannya penelitian, maka peneliti akan bertanggung jawab dan silahkan menghubungi nomor peneliti Wa/Telpon 081347563257

Parepare, 2024

Responden

(_____)

Lampiran 2. *Kuesioner*

KUESIONER KARAKTERISTIK RESPONDEN

EFEK KOMBINASI DAUN BELIMBING WULUH *(AVERRHOA BILIMBI L)* DAN KEMANGI *(OCIMUM BASILICUM)* TERHADAP PENURUNAN TEKANAN DARAH
KELOMPOK PROLANIS KOTA PAREPARE

Nomor Responden :

Tanggal Wawancara :

Kategori : ☐ Kelompok Intervensi Utama

☐ Kelompok Intervensi Pembanding I

☐ Kelompok Intervensi Pembanding II

Karakteristik Responden			
1	Nama Responden		
2	Nomor Hp		
3	Umur Responden		
4	Jenis Kelamin	1. Laki-laki 2. Perempuan	☐
5	Alamat	_____ Desa/Kel : Kec :	

6	Pendidikan Terakhir	1. Tidak Tamat SD 2. Tamat SD 3. Tamat SMP 4. Tamat SMA 5. Tamat Perguruan Tinggi	☐
7	Pekerjaan	1. Tidak Bekerja 2. IRT 3. Pedagang/Wiraswasta 4. PNS 5. TNI/POLRI 6. Pensiunan 7. Lainnya . _____	☐
8	Status Pernikahan	1. Belum Menikah 2. Menikah 3. Janda/Duda	☐
9	Lama menderita Hipertensi		
10	Jenis Obat yang dikonsumsi		

Lampiran 3. *Lembar Observasi*

Lembar Observasi Pengukuran Tekanan Darah

A. Identitas Subjek

1. Nama :
2. Tanggal Lahir :
3. Umur :
4. Jenis Kelamin : L / P
5. Alamat :

B. Data Hasil Pemeriksaan Tekanan Darah

Tekanan Darah	
Sebelum	**Setelah**

Lampiran 3. Pemeriksaan Sampel Penelitian

KEMENTERIAN PENDIDIKAN KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN
FAKULTAS KESEHATAN MASYARAKAT
Jl. Perintis Kemerdekaan Km.10 Makassar 90245, Telp.(0411) 585658,
e-mail : fkm.unhas@gmail.com, website: https://fkm.unhas.ac.id/

Nomor : 02493/UN4.14.1/PT.01.04/2024
Lamp. : ---
Hal : Permohonan Pemeriksaan Sampel Penelitian

Yth. : **Kepala Balai Besar Laboratorium Kesehatan Masyarakat Makassar**
di
Tempat

Dengan hormat, kami sampaikan bahwa mahasiswa Program Pascasarjana Fakultas Kesehatan Masyarakat Universitas Hasanuddin yang tersebut di bawah ini :

Nama : Satriana
Nomor Pokok : K012222034
Program Studi : S2 Ilmu Kesehatan Masyarakat

Bermaksud melakukan pemeriksaan sampel penelitian dalam rangka penyusunan Tesis.

Sehubungan dengan hal tersebut kami mohon kebijaksanaan Bapak/Ibu kiranya berkenan memberi izin kepada yang bersangkutan.

Atas perhatian dan kerjasamanya, disampaikan terima kasih.

Makassar, 19 Maret 2024
an. Dekan,
Wakil Dekan Bidang Akademik dan Kemahasiswaan

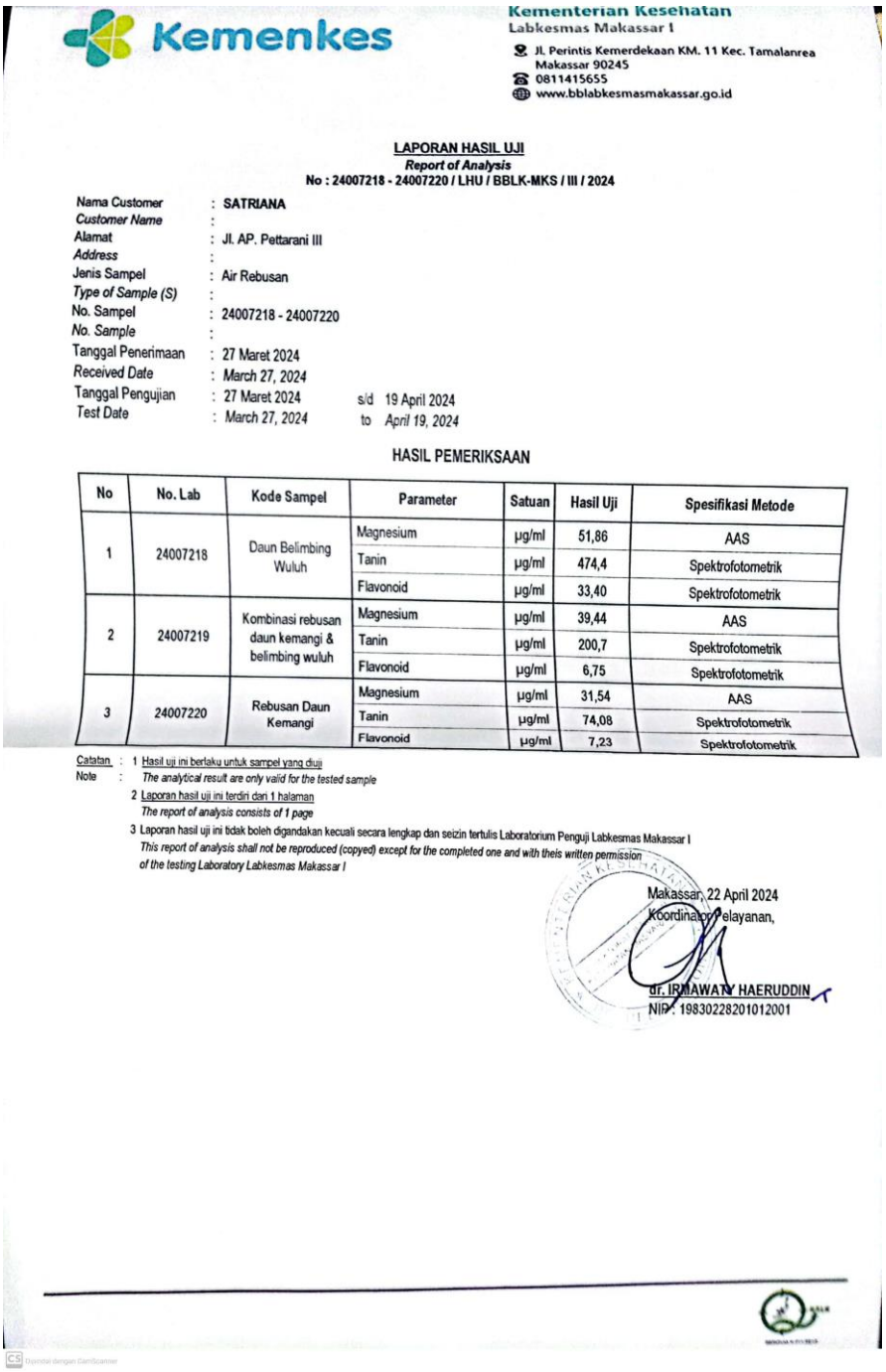
Dr. Wahiduddin, SKM.,M.Kes.
NIP 197604072005011004

Tembusan Yth.:
1. Dekan Fakultas Kesehatan Masyarakat Unhas;

Balai Sertifikasi Elektronik

Catatan :
1. UU ITE No. 11 Tahun 2008 Pasal 5 Ayat 1 "*Informasi Elektronik dan/atau Dokumen Elektronik dan/atau hasil cetakannya merupakan alat bukti yang sah.*"
2. Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh BSrE

Lampiran 4. Hasil Uji Fitokimia



Kementerian Kesehatan
Labkesmas Makassar I
Jl. Perintis Kemerdekaan KM. 11 Kec. Tamalanrea Makassar 90245
0811415655
www.bblabkesmasmakassar.go.id

LAPORAN HASIL UJI
Report of Analysis
No : 24007218 - 24007220 / LHU / BBLK-MKS / III / 2024

Nama Customer / *Customer Name*	:	SATRIANA
Alamat / *Address*	:	Jl. AP. Pettarani III
Jenis Sampel / *Type of Sample (S)*	:	Air Rebusan
No. Sampel / *No. Sample*	:	24007218 - 24007220
Tanggal Penerimaan / *Received Date*	:	27 Maret 2024 / *March 27, 2024*
Tanggal Pengujian / *Test Date*	:	27 Maret 2024 s/d 19 April 2024 / *March 27, 2024* to *April 19, 2024*

HASIL PEMERIKSAAN

No	No. Lab	Kode Sampel	Parameter	Satuan	Hasil Uji	Spesifikasi Metode
1	24007218	Daun Belimbing Wuluh	Magnesium	µg/ml	51,86	AAS
			Tanin	µg/ml	474,4	Spektrofotometrik
			Flavonoid	µg/ml	33,40	Spektrofotometrik
2	24007219	Kombinasi rebusan daun kemangi & belimbing wuluh	Magnesium	µg/ml	39,44	AAS
			Tanin	µg/ml	200,7	Spektrofotometrik
			Flavonoid	µg/ml	6,75	Spektrofotometrik
3	24007220	Rebusan Daun Kemangi	Magnesium	µg/ml	31,54	AAS
			Tanin	µg/ml	74,08	Spektrofotometrik
			Flavonoid	µg/ml	7,23	Spektrofotometrik

Catatan / Note :
1 Hasil uji ini berlaku untuk sampel yang diuji / *The analytical result are only valid for the tested sample*
2 Laporan hasil uji ini terdiri dari 1 halaman / *The report of analysis consists of 1 page*
3 Laporan hasil uji ini tidak boleh digandakan kecuali secara lengkap dan seizin tertulis Laboratorium Penguji Labkesmas Makassar I / *This report of analysis shall not be reproduced (copyed) except for the completed one and with theis written permission of the testing Laboratory Labkesmas Makassar I*

Makassar, 22 April 2024
Koordinator Pelayanan,

dr. IRMAWATY HAERUDDIN
NIP. 19830228201012001

Lampiran 5. Pengambilan Data Awal

Pengambilan Data Awal Puskesmas Lumpue

KEMENTERIAN PENDIDIKAN KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN
FAKULTAS KESEHATAN MASYARAKAT
Jl. Perintis Kemerdekaan Km.10 Makassar 90245, Telp.(0411) 585658,
e-mail : fkm.unhas@gmail.com, website: https://fkm.unhas.ac.id/

Nomor : 01201/UN4.14.1/PT.01.04/2024
Lamp. : ---
Hal : Permohonan Pengambilan Data Awal

Yth. : Kepala Puskesmas Lumpue Kota Pare Pare
di
Tempat

Dengan hormat, kami sampaikan bahwa mahasiswa Program Pascasarjana Fakultas Kesehatan Masyarakat Universitas Hasanuddin yang tersebut di bawah ini :

Nama : Satriana
Nomor Pokok : K012222034
Program Studi : S2 Ilmu Kesehatan Masyarakat

Bermaksud melakukan pengambilan data prolanis penderita diabetes melitus di wilayah kerja puskesmas lumpue. Data tersebut akan digunakan untuk penyusunan proposal tesis dengan judul "Efek Kombinasi Daun Belimbing Wuluh (Averrhoa Bilimbi L) Dan Kemangi (Ocimum Basilicum) Terhadap Penurunan Tekanan Darah Kelompok Prolanis Kota Parepare"

Sehubungan dengan hal tersebut kami mohon kebijaksanaan Bapak/Ibu kiranya berkenan memberi izin kepada yang bersangkutan.

Atas perhatian dan kerjasamanya, disampaikan terima kasih.

Makassar, 5 Februari 2024
an. Dekan,
Wakil Dekan Bidang Akademik dan Kemahasiswaan

Dr. Wahiduddin, SKM.,M.Kes.
NIP 197604072005011004

Tembusan Yth.:
1. Dekan Fakultas Kesehatan Masyarakat Unhas;
2. Arsip.

Balai Sertifikasi Elektronik

Catatan :
1. UU ITE No. 11 Tahun 2008 Pasal 5 Ayat 1 "Informasi Elektronik dan/atau Dokumen Elektronik dan/atau hasil cetakannya merupakan alat bukti yang sah."
2. Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh BSrE

Pengambilan Data Awal Puskesmas Lakessi

KEMENTERIAN PENDIDIKAN KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN
FAKULTAS KESEHATAN MASYARAKAT
Jl. Perintis Kemerdekaan Km.10 Makassar 90245, Telp.(0411) 585658,
e-mail : fkm.unhas@gmail.com, website: https://fkm.unhas.ac.id/

Nomor : 01304/UN4.14.1/PT.01.04/2024
Lamp. : ---
Hal : Permohonan Pengambilan Data Awal

Yth. : Kepala Puskesmas Lakessi
di
Tempat

Dengan hormat, kami sampaikan bahwa mahasiswa Program Pascasarjana Fakultas Kesehatan Masyarakat Universitas Hasanuddin yang tersebut di bawah ini :

Nama : Satriana
Nomor Pokok : K012222034
Program Studi : S2 Ilmu Kesehatan Masyarakat

Bermaksud melakukan pengambilan data awal. Data tersebut akan digunakan untuk penyusunan proposal tesis dengan judul "Efek Kombinasi Daun Belimbing Wuluh (Averrhoa Bilimbi L) Dan Kemangi (Ocimum Basilicum) Terhadap Penurunan Tekanan Darah Kelompok Prolanis Kota Parepare"

Sehubungan dengan hal tersebut kami mohon kebijaksanaan Bapak/Ibu kiranya berkenan memberi izin kepada yang bersangkutan.

Atas perhatian dan kerjasamanya, disampaikan terima kasih.

Makassar, 7 Februari 2024
an. Dekan,
Wakil Dekan Bidang Akademik dan Kemahasiswaan

Dr. Wahiduddin, SKM.,M.Kes.
NIP 197604072005011004

Tembusan Yth.:
1. Dekan Fakultas Kesehatan Masyarakat Unhas;
2. Arsip.

Lampiran 6. Izin Penelitian

PEMERINTAH PROVINSI SULAWESI SELATAN
DINAS PENANAMAN MODAL DAN PELAYANAN TERPADU SATU PINTU
Jl.Bougenville No.5 Telp. (0411) 441077 Fax. (0411) 448936
Website : http://simap-new.sulselprov.go.id Email : ptsp@sulselprov.go.id
Makassar 90231

Nomor	:	**5476/S.01/PTSP/2024**	**Kepada Yth.**
Lampiran	:	-	Walikota Parepare
Perihal	:	**Izin penelitian**	

di-
Tempat

Berdasarkan surat Dekan Fak. Kesehatan Masyarakat UNHAS Makassar Nomor : 01926/UN4.14.1/PT.01.04/2024 tanggal 28 Februari 2024 perihal tersebut diatas, mahasiswa/peneliti dibawah ini:

N a m a	:	**SATRIANA**
Nomor Pokok	:	K012222034
Program Studi	:	Ilmu Kesehatan Masyarakat
Pekerjaan/Lembaga	:	Mahasiswa (S2)
Alamat	:	Jl. P. Kemerdekaan Km,. 10 Makassar

Bermaksud untuk melakukan penelitian di daerah/kantor saudara dalam rangka menyusun Tesis, dengan judul :

" EFEK KOMBINASI DAUN BELIMBING WULUH (AVERRHOA BILIMBI L) DAN KEMANGI (OCIMUM BASILICUM) TERHADAP PENURUNAN TEKANAN DARAH KELOMPOK PROLANIS KOTA PAREPARE "

Yang akan dilaksanakan dari : Tgl. ***05 Maret s/d 06 Mei 2024***

Sehubungan dengan hal tersebut diatas, pada prinsipnya kami ***menyetujui*** kegiatan dimaksud dengan ketentuan yang tertera di belakang surat izin penelitian.

Demikian Surat Keterangan ini diberikan agar dipergunakan sebagaimana mestinya.

Diterbitkan di Makassar
Pada Tanggal 06 Maret 2024

KEPALA DINAS PENANAMAN MODAL DAN PELAYANAN TERPADU SATU PINTU PROVINSI SULAWESI SELATAN

ASRUL SANI, S.H., M.Si.
Pangkat : PEMBINA TINGKAT I
Nip : 19750321 200312 1 008

Tembusan Yth
1. Dekan Fak. Kesehatan Masyarakat UNHAS Makassar di Makassar;
2. *Pertinggal.*

Lampiran 7 . Persetujuan Etik

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN
RISET, DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN
FAKULTAS KESEHATAN MASYARAKAT
Jln.Perintis Kemerdekaan Km.10 Makassar 90245, Telp.(0411) 585658,
E-mail : fkm.unhas@gmail.com, website: https/fkm.unhas.ac.id/

REKOMENDASI PERSETUJUAN ETIK
Nomor : 479/UN4.14.1/TP.01.02/2024

Tanggal: 19 Februari 2024

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

No. Protokol	5224032067	No. Sponsor Protokol	
Peneliti Utama	**Satriana**	Sponsor	Pribadi
Judul Peneliti	**Efek Kombinasi Daun Belimbing Wuluh (Averrhoa Bilimbi L) Dan Kemangi (Ocimum Basilicum) Terhadap Penurunan Tekanan Darah Kelompok Prolanis Kota Parepare**		
No.Versi Protokol	1	Tanggal Versi	05 Februari 2024
No.Versi PSP	1	Tanggal Versi	05 Februari 2024
Tempat Penelitian	**Kota Parepare**		
Judul Review	[ ] Exempted [x] Expedited [ ] Fullboard	Masa Berlaku **19 Februari 2024 Sampai 19 Februari 2025**	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian	Nama : Prof.dr.Veni Hadju,M.Sc,Ph.D	Tanda tangan	Tanggal 19 Februari 2024
Sekretaris komisi Etik Penelitian	Nama : Dr. Wahiduddin, SKM.,M.Kes	Tanda tangan	Tanggal 19 Februari 2024

Kewajiban Peneliti Utama :

1. Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
2. 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
3. Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
4. Menyerahkan laporan akhir setelah Penelitian berakhir
5. Melaporakn penyimpangan dari protocol yang disetujui (protocol deviation/violation)
6. Mematuhi semua peraturan yang ditentukan

Lampiran 8 Output STATA Hasil Analisis Data Penelitian

A. Analisis Univariat

Usia

Usia	Kelompok kombinasi	kemangi	BW	Total
46-55 Tahun	9 56.25	5 31.25	8 50.00	22 45.83
54-65 Tahun	7 43.75	11 68.75	8 50.00	26 54.17
Total	16 100.00	16 100.00	16 100.00	48 100.00

IMT

IMT	Kelompok kombinasi	kemangi	belimbing	Total
underweight	0 0.00	1 6.25	0 0.00	1 2.08
normal	4 25.00	12 75.00	5 31.25	21 43.75
overweight	1 6.25	2 12.50	6 37.50	9 18.75
obesitas I	9 56.25	1 6.25	3 18.75	13 27.08
obesiatas II	2 12.50	0 0.00	2 12.50	4 8.33
Total	16 100.00	16 100.00	16 100.00	48 100.00

Status Pernikahan

Status Pernikahan	Kelompok kombinasi	kemangi	belimbing	Total
menikah	15 93.75	15 93.75	14 87.50	44 91.67
cerai hidup/mati	1 6.25	1 6.25	2 12.50	4 8.33
Total	16 100.00	16 100.00	16 100.00	48 100.00

Pendidikan

Pendidikan	Kelompok intervens	Kelompok intervens	intervens	Total
SD	5 31.25	3 18.75	3 18.75	11 22.92
SMP	9 56.25	5 31.25	7 43.75	21 43.75
SMA	2 12.50	6 37.50	4 25.00	12 25.00
S1	0 0.00	2 12.50	2 12.50	4 8.33
Total	16 100.00	16 100.00	16 100.00	48 100.00

Pekerjaan

Pekerjaan	Kelompok kombinasi	Kelompok kemangi	BW	Total
IRT	11 68.75	12 75.00	11 68.75	34 70.83
Pedagang	5 31.25	4 25.00	5 31.25	14 29.17
Total	16 100.00	16 100.00	16 100.00	48 100.00

Lama Menderita

Lama Menderita	Kelompok kombinasi	Kelompok kemangi	BW	Total
≤5 Tahun	5 31.25	2 12.50	3 18.75	10 20.83
≥5 Tahun	11 68.75	14 87.50	13 81.25	38 79.17
Total	16 100.00	16 100.00	16 100.00	48 100.00

Komplikasi Hipertensi

Komplikasi Hipertensi	Kelompok kombinasi	Kelompok kemangi	BW	Total
Tidak	15 93.75	13 81.25	14 87.50	42 87.50
Ya	1 6.25	3 18.75	2 12.50	6 12.50
Total	16 100.00	16 100.00	16 100.00	48 100.00

Riwayat Keluarga

Riwayat Keluarga	Kelompok kombinasi	kemangi	BW	Total
Tidak	2	1	0	3
	12.50	6.25	0.00	6.25
Ya	14	15	16	45
	87.50	93.75	100.00	93.75
Total	16	16	16	48
	100.00	100.00	100.00	100.00

Aktivitas Fisik

Aktivitas Fisik	Kelompok kombinasi	kemangi	BW	Total
Tidak	15	9	14	38
	93.75	56.25	87.50	79.17
Ya	1	7	2	10
	6.25	43.75	12.50	20.83
Total	16	16	16	48
	100.00	100.00	100.00	100.00

Alergi

Alergi Daun Kemangi dan Daun Belimbing Wuluh	Kelompok kombinasi	kemangi	BW	Total
Tidak	16	16	16	48
	100.00	100.00	100.00	100.00
Total	16	16	16	48
	100.00	100.00	100.00	100.00

Kategori

Sebelum

```
. tab KategoriPre Kelompok
```

KategoriPre	Kelompok kombinasi	kemangi	BW	Total
Pra Hipertensi	2	4	4	10
hipertensi tingkat I	13	8	10	31
hipertensi tingkat II	1	4	2	7
Total	16	16	16	48

Sesudah

```
. tab KategoriH7 Kelompok
```

KategoriH7	Kelompok kombinasi	kemangi	BW	Total
Normal	3	0	0	3
Pra Hipertensi	11	11	11	33
hipertensi tingkat I	2	5	5	12
Total	16	16	16	48

Mean, SD, min, max

a. Kombinasi

sistolik

```
.   sum sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 sistolik7
> if Kelompok ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	16	146.5625	7.7543	135	171
sistolik1	16	143.3125	6.128825	134	160
sistolik2	16	141.4375	5.932608	132	158
sistolik3	16	139.125	7.392564	128	160
sistolik4	16	136.8125	7.661321	126	159
sistolik5	16	134.5	8.246211	124	158
sistolik6	16	131.125	9.200543	120	157
sistolik7	16	127.5	10.12587	115	156

Diastolik

```
.   sum diastolik0 diastolik1 diastolik2 diastolik3 diastolik4 diastolik5 diastolik6 dia
> stolik7 if Kelompok ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
diastolik0	16	95.3125	2.845318	89	103
diastolik1	16	91.8125	1.973787	88	95
diastolik2	16	89.4375	1.931105	85	92
diastolik3	16	89.625	2.578759	84	95
diastolik4	16	87.5625	2.82769	82	93
diastolik5	16	85.875	2.578759	81	91
diastolik6	16	83.75	3.193744	80	90
diastolik7	16	81.3125	3.516035	75	90

b. Kemangi

Sistolik

```
.   sum sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 sistolik7
> if Kelompok ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	16	149.625	13.21552	135	175
sistolik1	16	147.875	12.32815	132	173
sistolik2	16	145.1875	12.55505	130	174
sistolik3	16	143.0625	11.66458	128	168
sistolik4	16	141.125	11.79195	126	165
sistolik5	16	138.4375	10.67688	124	158
sistolik6	16	135.625	10.62623	122	157
sistolik7	16	136.5	11.26055	121	158

Diastolik

```
.   sum diastolik0 diastolik1 diastolik2 diastolik3 diastolik4 diastolik5 diastolik6 dia
> stolik7 if Kelompok ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
diastolik0	16	93	4.830459	80	98
diastolik1	16	90.5625	5.046038	75	96
diastolik2	16	89.5625	3.687253	80	94
diastolik3	16	88.5625	3.966001	78	95
diastolik4	16	86.9375	3.872445	75	91
diastolik5	16	86.3125	2.5224	81	90
diastolik6	16	84.8125	4.003644	75	92
diastolik7	16	84.125	5.829523	75	95

c. Belimbing Wuluh

Sistolik

```
.   sum sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 sistolik7
> if Kelompok ==3
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	16	148.3125	8.498774	135	162
sistolik1	16	145.9375	7.698214	132	158
sistolik2	16	144	7.650708	131	157
sistolik3	16	142.5	7.694154	130	156
sistolik4	16	140.375	7.830496	128	154
sistolik5	16	139.5	7.402702	125	154
sistolik6	16	137.1875	8.518363	124	154
sistolik7	16	135.5625	7.9747	123	151

Diastolik

```
.   sum diastolik0 diastolik1 diastolik2 diastolik3 diastolik4 diastolik5 diastolik6 dia
> stolik7 if Kelompok ==3
```

Variable	Obs	Mean	Std. Dev.	Min	Max
diastolik0	16	92.75	3.473711	85	98
diastolik1	16	90.9375	3.453863	84	95
diastolik2	16	89.9375	2.839454	84	95
diastolik3	16	89.25	3.316625	83	94
diastolik4	16	88.375	3.964425	82	95
diastolik5	16	87.75	3.235223	81	92
diastolik6	16	85.8125	3.816084	80	90
diastolik7	16	84.0625	4.836924	75	90

d. semua kelompok

Sistolik

```
.     swilk sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 sistol
> ik7

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	48	0.91269	3.976	2.937	0.00166
sistolik1	48	0.94835	2.352	1.820	0.03438
sistolik2	48	0.92826	3.267	2.519	0.00589
sistolik3	48	0.94774	2.380	1.845	0.03253
sistolik4	48	0.93757	2.843	2.223	0.01310
sistolik5	48	0.95151	2.208	1.686	0.04595
sistolik6	48	0.94511	2.500	1.950	0.02562
sistolik7	48	0.96051	1.799	1.249	0.10587

Diastolik

```
.     swilk diastolik0 diastolik1 diastolik2 diastolik3 diastolik4 diastolik5 diastolik6
>  diastolik7 if Kelompok

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
  diastolik0 |         48     0.93089      3.147     2.439     0.00736
  diastolik1 |         48     0.84630      7.000     4.140     0.00002
  diastolik2 |         48     0.93866      2.794     2.186     0.01442
  diastolik3 |         48     0.93910      2.773     2.170     0.01499
  diastolik4 |         48     0.95732      1.944     1.414     0.07869
  diastolik5 |         48     0.96674      1.515     0.884     0.18843
  diastolik6 |         48     0.98185      0.826    -0.405     0.65742
  diastolik7 |         48     0.93689      2.874     2.246     0.01234
```

B. Analisis Bivariat

1. Analisis Rerata Perbedaan Tekanan Darah Berdasarkan Karakteristik Responden

a. Intervensi Utama

1) Umur

<60 tahun

Pre

```
.  sum sistolik0 if kat_umur ==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |         11    151.9091     15.2214       135        175
```

Post

```
.  sum sistolik7 if kat_umur ==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |         11    137.8182    13.00629       121        158
```

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_umur ==1

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         11     0.88319      1.891     1.205     0.11418
   sistolik7 |         11     0.93038      1.127     0.215     0.41471
```

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik0= sistolik7 if kat_umur ==1

Paired t test

------------------------------------------------------------------------------
Variable |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
sistol~0 |      11    151.9091    4.589424    15.2214    141.6832    162.135
sistol~7 |      11    137.8182    3.921545   13.00629    129.0804   146.5559
---------+--------------------------------------------------------------------
    diff |      11    14.09091    3.200723    10.6156    6.959254   21.22256
------------------------------------------------------------------------------
     mean(diff) = mean(sistolik0 - sistolik7)                      t =   4.4024
 Ho: mean(diff) = 0                                     degrees of freedom =       10

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9993         Pr(|T| > |t|) = 0.0013          Pr(T > t) = 0.0007
```

>60 tahun

Pre

```
. sum sistolik0 if kat_umur ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	5	144.6	5.458938	138	152

Post

```
. sum sistolik7 if kat_umur ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	5	133.6	6.107373	125	142

Normalitas

```
. swilk sistolik0 sistolik7 if kat_umur ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	5	0.97005	0.354	-1.153	0.87554
sistolik7	5	0.96884	0.368	-1.116	0.86777

Paired t-test (data terdistribusi normal)

```
. ttest sistolik0= sistolik7 if kat_umur ==2

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	5	144.6	2.441311	5.458938	137.8218	151.3782
sistol~7	5	133.6	2.7313	6.107373	126.0167	141.1833
diff	5	11	4.242641	9.486833	-.779459	22.77946

```
     mean(diff) = mean(sistolik0 - sistolik7)                      t =   2.5927
 Ho: mean(diff) = 0                               degrees of freedom =        4

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9697         Pr(|T| > |t|) = 0.0605          Pr(T > t) = 0.0303
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_umur)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
< 60 Tah	11	18.09091	1.875461	6.220202	13.91212	22.2697
> 60 Tah	5	21.2	2.35372	5.263079	14.66502	27.73498
combined	16	19.0625	1.48736	5.94944	15.89227	22.23273
diff		-3.109091	3.215899		-10.00651	3.788327

```
    diff = mean(< 60 Tah) - mean(> 60 Tah)                        t =  -0.9668
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1750         Pr(|T| > |t|) = 0.3501          Pr(T > t) = 0.8250
```

2) IMT

Normal

Pre

```
. sum sistolik0 if kat_IMT ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	12	147.1667	8.962886	135	171

Post

```
. sum sistolik7 if kat_IMT ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	12	128.25	11.46635	115	156

Normalitas

```
. swilk sistolik0 sistolik7 if kat_IMT ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	12	0.87256	2.129	1.473	0.07044
sistolik7	12	0.89221	1.801	1.146	0.12585

Wilcoxon (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_IMT ==1

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	12	78	39
negative	0	0	39
zero	0	0	0
all	12	78	78

```
unadjusted variance      162.50
adjustment for ties       -0.75
adjustment for zeros       0.00
                         ------
adjusted variance        161.75

Ho: sistolik0 = sistolik7
            z =   3.066
    Prob > |z| =   0.0022
```

Obesitas

Sistol

Pre

```
. sum sistolik0 if kat_IMT ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	4	144.75	.5	144	145

Post

```
. sum sistolik7 if kat_IMT ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	4	125.25	4.645787	119	130

Normalitas

```
. swilk sistolik0 sistolik7 if kat_IMT ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	4	0.99977	0.003	-3.241	0.99940
sistolik7	4	0.96205	0.438	-0.813	0.79181

Wilcoxon (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_IMT ==2

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	4	10	5
negative	0	0	5
zero	0	0	0
all	4	10	10

```
unadjusted variance        7.50
adjustment for ties        0.00
adjustment for zeros       0.00
                        ---------
adjusted variance          7.50

Ho: sistolik0 = sistolik7
                z =   1.826
    Prob > |z| =   0.0679
```

Uji beda

```
.    ttest selisih_sistol, by (kat_IMT)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Normal	12	18.91667	1.900791	6.584532	14.73305	23.10028
Obesitas	4	19.5	2.101587	4.203173	12.81181	26.18819
combined	16	19.0625	1.48736	5.94944	15.89227	22.23273
diff		-.5833333	3.552051		-8.201724	7.035058

```
    diff = mean(Normal) - mean(Obesitas)                      t =  -0.1642
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.4360         Pr(|T| > |t|) = 0.8719          Pr(T > t) = 0.5640
```

3) Riwayat Keluarga

Ya

Pre

```
. sum sistolik0 if kat_riwayatKeluarga ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	13	146.7692	8.01201	135	171

Post

```
. sum sistolik7 if kat_riwayatKeluarga ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	13	127.3846	11.08707	115	156

Normalitas

```
. swilk sistolik0 sistolik7 if kat_riwayatKeluarga ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	13	0.73462	4.674	3.021	0.00126
sistolik7	13	0.87073	2.277	1.612	0.05349

Paired t-test (data terdistribusi normal)

```
. ttest sistolik0= sistolik7 if kat_riwayatKeluarga ==1

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	13	146.7692	2.222132	8.01201	141.9276	151.6108
sistol~7	13	127.3846	3.074999	11.08707	120.6848	134.0845
diff	13	19.38462	1.810009	6.526082	15.44094	23.32829

```
     mean(diff) = mean(sistolik0 - sistolik7)                      t =  10.7097
 Ho: mean(diff) = 0                                     degrees of freedom =       12

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
```

Tidak

Pre

```
. sum sistolik0 if kat_riwayatKeluarga ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	3	145.6667	8.020806	138	154

Post

```
. sum sistolik7 if kat_riwayatKeluarga ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	3	128	5.567764	123	134

Normalitas

```
. swilk sistolik0 sistolik7 if kat_riwayatKeluarga ==2

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |          3     0.99482       0.077    -1.091    0.86241
   sistolik7 |          3     0.97581       0.361    -0.529    0.70173
```

Wilcoxon (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_riwayatKeluarga ==2

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |        3            6           3
    negative |        0            0           3
        zero |        0            0           0
-------------+---------------------------------
         all |        3            6           6

unadjusted variance         3.50
adjustment for ties         0.00
adjustment for zeros        0.00
                       ----------
adjusted variance           3.50

Ho: sistolik0 = sistolik7
            z =   1.604
    Prob > |z| =   0.1088
```

Uji beda

```
.    ttest selisih_sistol, by (kat_riwayatKeluarga)

Two-sample t test with equal variances

   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
      Ya |      13    19.38462    1.810009    6.526082    15.44094    23.32829
   Tidak |       3    17.66667    1.452966    2.516611    11.41506    23.91828
---------+--------------------------------------------------------------------
combined |      16     19.0625     1.48736     5.94944    15.89227    22.23273
---------+--------------------------------------------------------------------
    diff |            1.717949    3.917627               -6.684524    10.12042
------------------------------------------------------------------------------
    diff = mean(Ya) - mean(Tidak)                                 t =   0.4385
Ho: diff = 0                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.6661         Pr(|T| > |t|) = 0.6677          Pr(T > t) = 0.3339
```

4) Lama Menderita ≥5 Tahun

Pre

```
. sum sistolik0 if kat_lamaMenderita==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |         11    146.1818    9.141315       135        171
```

Post

```
. sum sistolik7 if kat_lamaMenderita ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	11	126	11.3842	115	156

Normalitas

```
. swilk sistolik0 sistolik7 if kat_lamaMenderita ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	11	0.79527	3.315	2.402	0.00815
sistolik7	11	0.79124	3.380	2.446	0.00722

Wilcoxon (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_lamaMenderita ==1

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	11	66	33
negative	0	0	33
zero	0	0	0
all	11	66	66

```
unadjusted variance      126.50
adjustment for ties       -0.75
adjustment for zeros       0.00
                         ------
adjusted variance        125.75

Ho: sistolik0 = sistolik7
            z =   2.943
    Prob > |z| =   0.0033
```

≤5 Tahun

Pre

```
. sum sistolik0 if kat_lamaMenderita==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	5	147.4	3.911521	145	154

Post

```
. sum sistolik7 if kat_lamaMenderita ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	5	130.8	6.379655	125	140

Normalitas

```
. swilk sistolik0 sistolik7 if kat_lamaMenderita ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	5	0.83122	1.992	1.071	0.14207
sistolik7	5	0.74398	3.022	1.941	0.02615

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_lamaMenderita ==2

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |        5           15         7.5
    negative |        0            0         7.5
        zero |        0            0           0
-------------+---------------------------------
         all |        5           15          15

unadjusted variance        13.75
adjustment for ties        -0.50
adjustment for zeros        0.00
                           ------
adjusted variance          13.25

Ho: sistolik0 = sistolik7
             z =   2.060
    Prob > |z| =   0.0394
```

Uji beda

Sistol

```
.   ttest selisih_Sistol_TD, by (kat_lamaMenderita)

Two-sample t test with equal variances

   Group |      Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
≥5 Tahun |       11    20.18182    1.847938    6.128918    16.06436    24.29928
≤5 Tahun |        5        16.6    2.357965    5.272571    10.05324    23.14676
---------+--------------------------------------------------------------------
combined |       16      19.0625     1.48736     5.94944    15.89227    22.23273
---------+--------------------------------------------------------------------
    diff |            3.581818    3.180579               -3.239844    10.40348
------------------------------------------------------------------------------
    diff = mean(≥5 Tahun) - mean(≤5 Tahun)                        t =   1.1262
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.8605         Pr(|T| > |t|) = 0.2790          Pr(T > t) = 0.1395
```

5) Pekerjaan

Tidak bekerja

Pre

```
.  sum sistolik0 if kat_pekerjaan ==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |         11    145.7273    9.056389       135        171
```

Post

```
.  sum sistolik7 if kat_pekerjaan ==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |         11    126.2727    11.31451       115        156
```

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_pekerjaan ==1

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         11    0.73645      4.267      2.992    0.00138
   sistolik7 |         11    0.79967      3.243      2.353    0.00931
```

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_pekerjaan ==1

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |       11           66          33
    negative |        0            0          33
        zero |        0            0           0
-------------+---------------------------------
         all |       11           66          66

unadjusted variance      126.50
adjustment for ties       -0.88
adjustment for zeros       0.00
                         ------
adjusted variance        125.63

Ho: sistolik0 = sistolik7
            z =   2.944
    Prob > |z| =   0.0032
```

Bekerja

Sistol

Pre

```
.  sum sistolik0 if kat_pekerjaan ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |          5       148.4    3.781534       145        154
```

Post

```
.  sum sistolik7 if kat_pekerjaan ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |          5       130.2    7.155418       122        140
```

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_pekerjaan ==2

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |          5    0.75881      2.847      1.801    0.03584
   sistolik7 |          5    0.97568      0.287     -1.343    0.91030
```

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_pekerjaan ==2

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |        5          15         7.5
    negative |        0           0         7.5
        zero |        0           0           0
-------------+---------------------------------
         all |        5          15          15

unadjusted variance        13.75
adjustment for ties        -0.13
adjustment for zeros        0.00
                           ------
adjusted variance          13.63

Ho: sistolik0 = sistolik7
             z =   2.032
    Prob > |z| =   0.0422
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_pekerjaan)

Two-sample t test with equal variances

   Group |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
   tidak |      11    19.45455    1.675294    5.556323    15.72176    23.18733
      ya |       5        18.2    3.292416    7.362065    9.058789    27.34121
---------+--------------------------------------------------------------------
combined |      16     19.0625     1.48736     5.94944    15.89227    22.23273
---------+--------------------------------------------------------------------
    diff |            1.254545    3.304549               -5.833008    8.342099
------------------------------------------------------------------------------
    diff = mean(tidak) - mean(ya)                                 t =   0.3796
Ho: diff = 0                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.6450         Pr(|T| > |t|) = 0.7099          Pr(T > t) = 0.3550
```

6) Pendidikan

Pendidikan tinggi

Pre

```
.  sum sistolik0 if kat_pendidikan ==1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sistolik0 |         8     147.875    9.891374       138        171
```

Post

```
.  sum sistolik7 if kat_pendidikan ==1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sistolik7 |         8     128.625    11.57507       119        156
```

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_pendidikan ==1

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |          8    0.82759      2.402      1.589     0.05603
   sistolik7 |          8    0.71211      4.011      2.739     0.00308
```

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_pendidikan ==1

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |        8           36          18
    negative |        0            0          18
        zero |        0            0           0
-------------+---------------------------------
         all |        8           36          36

unadjusted variance        51.00
adjustment for ties        -0.63
adjustment for zeros        0.00
                           ------
adjusted variance          50.38

Ho: sistolik0 = sistolik7
             z =   2.536
    Prob > |z| =   0.0112
```

Pendidikan rendah

Pre

```
.  sum sistolik0 if kat_pendidikan ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |          8      145.25    5.203021       135        154
```

Post

```
.  sum sistolik7 if kat_pendidikan ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |          8     126.375    9.101609       115        140
```

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_pendidikan ==2

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |          8    0.87475      1.745      0.964     0.16764
   sistolik7 |          8    0.93915      0.848     -0.260     0.60272
```

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik0= sistolik7 if kat_pendidikan ==2

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	8	145.25	1.839546	5.203021	140.9002	149.5998
sistol~7	8	126.375	3.217905	9.101609	118.7659	133.9841
diff	8	18.875	2.545567	7.19995	12.85569	24.89431

```
     mean(diff) = mean(sistolik0 - sistolik7)                      t =   7.4149
 Ho: mean(diff) = 0                               degrees of freedom =        7

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9999         Pr(|T| > |t|) = 0.0001          Pr(T > t) = 0.0001
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_pendidikan)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
pendidik	8	19.25	1.729471	4.891684	15.16045	23.33955
pendidik	8	18.875	2.545567	7.19995	12.85569	24.89431
combined	16	19.0625	1.48736	5.94944	15.89227	22.23273
diff		.375	3.077496		-6.225573	6.975573

```
    diff = mean(pendidik) - mean(pendidik)                        t =   0.1219
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5476         Pr(|T| > |t|) = 0.9047          Pr(T > t) = 0.4524
```

b. Intervensi Pembanding I

1) Umur

<60 tahun

Pre

```
.  sum sistolik0 if kat_umur ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	11	151.9091	15.2214	135	175

Post

```
.  sum sistolik7 if kat_umur ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	11	137.8182	13.00629	121	158

Normalitas

```
. swilk sistolik0 sistolik7 if kat_umur ==1

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         11    0.88319      1.891     1.205    0.11418
   sistolik7 |         11    0.93038      1.127     0.215    0.41471
```

Paired t-test (data terdistribusi normal)

```
. ttest sistolik0= sistolik7 if kat_umur ==1

Paired t test
------------------------------------------------------------------------------
Variable |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
sistol~0 |      11    151.9091    4.589424    15.2214    141.6832     162.135
sistol~7 |      11    137.8182    3.921545   13.00629    129.0804    146.5559
---------+--------------------------------------------------------------------
    diff |      11    14.09091    3.200723    10.6156    6.959254    21.22256
------------------------------------------------------------------------------
     mean(diff) = mean(sistolik0 - sistolik7)                      t =   4.4024
 Ho: mean(diff) = 0                                     degrees of freedom =       10

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9993         Pr(|T| > |t|) = 0.0013          Pr(T > t) = 0.0007
```

>60 tahun

Pre

```
. sum sistolik0 if kat_umur ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |          5       144.6    5.458938       138        152
```

Post

```
. sum sistolik7 if kat_umur ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |          5       133.6    6.107373       125        142
```

Normalitas

```
. swilk sistolik0 sistolik7 if kat_umur ==2

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |          5    0.97005      0.354    -1.153    0.87554
   sistolik7 |          5    0.96884      0.368    -1.116    0.86777
```

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik0= sistolik7 if kat_umur ==2

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	5	144.6	2.441311	5.458938	137.8218	151.3782
sistol~7	5	133.6	2.7313	6.107373	126.0167	141.1833
diff	5	11	4.242641	9.486833	-.779459	22.77946

```
     mean(diff) = mean(sistolik0 - sistolik7)                      t =   2.5927
 Ho: mean(diff) = 0                                     degrees of freedom =        4

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9697         Pr(|T| > |t|) = 0.0605          Pr(T > t) = 0.0303
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_umur)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
< 60 Tah	11	11.81818	3.280294	10.87951	4.509231	19.12713
> 60 Tah	5	10.4	4.057093	9.071935	-.8642948	21.66429
combined	16	11.375	2.516405	10.06562	6.011411	16.73859
diff		1.418182	5.606742		-10.60708	13.44345

```
    diff = mean(< 60 Tah) - mean(> 60 Tah)                        t =   0.2529
Ho: diff = 0                                           degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5980         Pr(|T| > |t|) = 0.8040          Pr(T > t) = 0.4020
```

2) IMT

Normal

Pre

```
.  sum sistolik0 if kat_IMT ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	6	152.3333	10.48173	143	172

Post

```
.  sum sistolik7 if kat_IMT ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	6	138	7.720104	132	152

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_IMT ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	6	0.84348	1.938	1.084	0.13927
sistolik7	6	0.80351	2.433	1.528	0.06320

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_IMT ==1

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	6	21	10.5
negative	0	0	10.5
zero	0	0	0
all	6	21	21

```
unadjusted variance        22.75
adjustment for ties        -0.25
adjustment for zeros        0.00
                           ------
adjusted variance          22.50

Ho: sistolik0 = sistolik7
              z =   2.214
    Prob > |z| =   0.0269
```

Obesitas

Pre

```
.  sum sistolik0 if kat_IMT ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	10	148	14.90712	135	175

Post

```
.  sum sistolik7 if kat_IMT ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	10	135.6	13.2598	121	158

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_IMT ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	10	0.82065	2.764	1.946	0.02580
sistolik7	10	0.90092	1.527	0.758	0.22422

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_IMT ==2

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	8	50	27.5
negative	2	5	27.5
zero	0	0	0
all	10	55	55

```
unadjusted variance        96.25
adjustment for ties         0.00
adjustment for zeros        0.00
                           ------
adjusted variance          96.25

Ho: sistolik0 = sistolik7
            z =   2.293
    Prob > |z| =   0.0218
```

Uji beda

```
.    ttest selisih_sistol, by (kat_IMT)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Normal	6	14.33333	1.960725	4.802777	9.293128	19.37354
Obesitas	10	12.4	3.930507	12.42936	3.508574	21.29143
combined	16	13.125	2.516405	10.06562	7.761411	18.48859
diff		1.933333	5.35543		-9.552923	13.41959

```
    diff = mean(Normal) - mean(Obesitas)                      t =   0.3610
Ho: diff = 0                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.6383         Pr(|T| > |t|) = 0.7235          Pr(T > t) = 0.3617
```

3) Riwayat Keluarga

Ya

Pre

```
.  sum sistolik0 if kat_riwayatKeluarga ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	13	148.1538	13.30943	135	175

Post

```
.  sum sistolik7 if kat_riwayatKeluarga ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	13	135.5385	11.35499	121	158

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_riwayatKeluarga ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	13	0.85841	2.494	1.790	0.03672
sistolik7	13	0.94330	0.999	-0.003	0.50104

Wilcoxon (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_riwayatKeluarga ==1

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	11	84	45.5
negative	2	7	45.5
zero	0	0	0
all	13	91	91

```
unadjusted variance      204.75
adjustment for ties       -0.25
adjustment for zeros       0.00
                         ------
adjusted variance        204.50

Ho: sistolik0 = sistolik7
            z =   2.692
    Prob > |z| =   0.0071
```

Tidak

Pre

```
.  sum sistolik0 if kat_riwayatKeluarga ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	3	156	13.11488	144	170

Post

```
.  sum sistolik7 if kat_riwayatKeluarga ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	3	140.6667	12.05543	128	152

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_riwayatKeluarga ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	3	0.98256	0.260	-0.665	0.74704
sistolik7	3	0.99083	0.137	-0.903	0.81679

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_riwayatKeluarga ==2

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |        3            6           3
    negative |        0            0           3
        zero |        0            0           0
-------------+---------------------------------
         all |        3            6           6

unadjusted variance        3.50
adjustment for ties        0.00
adjustment for zeros       0.00
                           ----
adjusted variance          3.50

Ho: sistolik0 = sistolik7
             z =   1.604
    Prob > |z| =   0.1088
```

Uji beda

```
.    ttest selisih_sistol, by (kat_riwayatKeluarga)

Two-sample t test with equal variances

   Group |      Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
      Ya |       13    12.61538    3.083327    11.11709    5.897393    19.33338
   Tidak |        3    15.33333    1.763834     3.05505    7.744167     22.9225
---------+--------------------------------------------------------------------
combined |       16      13.125    2.516405    10.06562    7.761411    18.48859
---------+--------------------------------------------------------------------
    diff |           -2.717949    6.633788               -16.94601    11.51011
------------------------------------------------------------------------------
    diff = mean(Ya) - mean(Tidak)                                 t =  -0.4097
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3441         Pr(|T| > |t|) = 0.6882          Pr(T > t) = 0.6559
```

4) Lama Menderita ≥5 Tahun

Pre

```
.  sum sistolik0 if kat_lamaMenderita==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |         12      149.25    12.77871       135        172
```

Post

```
.  sum sistolik7 if kat_lamaMenderita ==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |         12    133.8333    10.61588       121        152
```

Normalitas

```
. swilk sistolik0 sistolik7 if kat_lamaMenderita ==1

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         12     0.90733      1.548      0.852     0.19718
   sistolik7 |         12     0.94592      0.904     -0.198     0.57832
```

Paired t-test (data terdistribusi normal)

```
. ttest sistolik0= sistolik7 if kat_lamaMenderita ==1

Paired t test

Variable |     Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
sistol~0 |      12      149.25    3.688896    12.77871    141.1308    157.3692
sistol~7 |      12    133.8333    3.064541    10.61588    127.0883    140.5783
---------+--------------------------------------------------------------------
    diff |      12    15.41667    1.215171    4.209477    12.74209    18.09124
------------------------------------------------------------------------------
     mean(diff) = mean(sistolik0 - sistolik7)                      t =  12.6868
 Ho: mean(diff) = 0                               degrees of freedom =       11

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
```

≤5 Tahun

Pre

```
. sum sistolik0 if kat_lamaMenderita==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |          4      150.75        16.5       138        175
```

Post

```
. sum sistolik7 if kat_lamaMenderita ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |          4       144.5    10.34408       133        158
```

Normalitas

```
. swilk sistolik0 sistolik7 if kat_lamaMenderita ==2

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |          4     1.00000           .     10.000     0.00000
   sistolik7 |          4     0.97384       0.302     -1.104     0.86513
```

Wilcoxon (data tidak terdistribusi normal)

```
.  signrank sistolik0= sistolik7 if kat_lamaMenderita ==2

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |        2            6           5
    negative |        2            4           5
        zero |        0            0           0
-------------+---------------------------------
         all |        4           10          10

unadjusted variance         7.50
adjustment for ties         0.00
adjustment for zeros        0.00
                       ----------
adjusted variance           7.50

Ho: sistolik0 = sistolik7
             z =   0.365
    Prob > |z| =   0.7150
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_lamaMenderita)

Two-sample t test with equal variances

   Group |      Obs        Mean    Std. Err.   Std. Dev.   [95% Conf. Interval]
---------+--------------------------------------------------------------------
≥5 Tahun |       12    13.66667    1.110101    3.845501    11.22335    16.10998
≤5 Tahun |        4         4.5    9.596006    19.19201   -26.03877    35.03877
---------+--------------------------------------------------------------------
combined |       16      11.375    2.516405    10.06562    6.011411    16.73859
---------+--------------------------------------------------------------------
    diff |            9.166667    5.493864               -2.616499    20.94983
------------------------------------------------------------------------------
    diff = mean(≥5 Tahun) - mean(≤5 Tahun)                        t =   1.6685
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.9413         Pr(|T| > |t|) = 0.1174          Pr(T > t) = 0.0587
```

5) Pekerjaan

Tidak bekerja

Pre

```
.  sum sistolik0 if kat_pekerjaan ==1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sistolik0 |        12    152.1667    13.86843       135        175
```

Post

```
.  sum sistolik7 if kat_pekerjaan ==1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sistolik7 |        12       139.5    11.13961       123        158
```

Normalitas

```
. swilk sistolik0 sistolik7 if kat_pekerjaan ==1

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         12    0.89391      1.773     1.115    0.13234
   sistolik7 |         12    0.96076      0.656    -0.822    0.79457
```

Paired t-test (data terdistribusi normal)

```
. ttest sistolik0= sistolik7 if kat_pekerjaan ==1

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	12	152.1667	4.003471	13.86843	143.3551	160.9782
sistol~7	12	139.5	3.215728	11.13961	132.4222	146.5778
diff	12	12.66667	3.326508	11.52336	5.345072	19.98826

```
     mean(diff) = mean(sistolik0 - sistolik7)                      t =   3.8078
 Ho: mean(diff) = 0                                     degrees of freedom =       11

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9985         Pr(|T| > |t|) = 0.0029          Pr(T > t) = 0.0015
```

Bekerja

Pre

```
. sum sistolik0 if kat_pekerjaan ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik0 |          4         142    8.041559       135        152
```

Post

```
. sum sistolik7 if kat_pekerjaan ==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   sistolik7 |          4       127.5     5.91608       121        133
```

Normalitas

```
. swilk sistolik0 sistolik7 if kat_pekerjaan ==2

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |          4    0.89550      1.205     0.230    0.40903
   sistolik7 |          4    0.87367      1.457     0.489    0.31231
```

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik0= sistolik7 if kat_pekerjaan ==2

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	4	142	4.020779	8.041559	129.2041	154.7959
sistol~7	4	127.5	2.95804	5.91608	118.0862	136.9138
diff	4	14.5	2.020726	4.041452	8.069148	20.93085

```
     mean(diff) = mean(sistolik0 - sistolik7)                      t =   7.1756
 Ho: mean(diff) = 0                               degrees of freedom =        3

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9972         Pr(|T| > |t|) = 0.0056          Pr(T > t) = 0.0028
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_pekerjaan)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
tidak	12	10.75	3.31691	11.49011	3.44953	18.05047
ya	4	13.25	2.015564	4.031129	6.835574	19.66443
combined	16	11.375	2.516405	10.06562	6.011411	16.73859
diff		-2.5	5.978135		-15.32182	10.32182

```
    diff = mean(tidak) - mean(ya)                                 t =  -0.4182
Ho: diff = 0                                 degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3411         Pr(|T| > |t|) = 0.6822          Pr(T > t) = 0.6589
```

6) Pendidikan

Pendidikan tinggi

Pre

```
.  sum sistolik0 if kat_pendidikan ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	11	152	14.15627	135	175

Post

```
.  sum sistolik7 if kat_pendidikan ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	11	139.3636	11.74115	124	158

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_pendidikan ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	11	0.87891	1.961	1.277	0.10079
sistolik7	11	0.93174	1.105	0.180	0.42869

Paired t-test (data terdistribusi normal)

```
. ttest sistolik0= sistolik7 if kat_pendidikan ==1

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	11	152	4.268276	14.15627	142.4897	161.5103
sistol~7	11	139.3636	3.540089	11.74115	131.4758	147.2514
diff	11	12.63636	3.57586	11.85979	4.66885	20.60388

```
    mean(diff) = mean(sistolik0 - sistolik7)                      t =   3.5338
Ho: mean(diff) = 0                               degrees of freedom =       10

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9973         Pr(|T| > |t|) = 0.0054          Pr(T > t) = 0.0027
```

Pendidikan rendah

Pre

```
. sum sistolik0 if kat_pendidikan ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	5	144.4	10.21274	135	160

Post

```
. sum sistolik7 if kat_pendidikan ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	5	130.2	7.661593	121	138

Normalitas

```
. swilk sistolik0 sistolik7 if kat_pendidikan ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	5	0.91258	1.032	0.042	0.48327
sistolik7	5	0.85819	1.674	0.766	0.22183

Paired t-test (data terdistribusi normal)

```
. ttest sistolik0= sistolik7 if kat_pendidikan ==2

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	5	144.4	4.567275	10.21274	131.7192	157.0808
sistol~7	5	130.2	3.426368	7.661593	120.6869	139.7131
diff	5	14.2	2.289105	5.118594	7.844427	20.55557

```
    mean(diff) = mean(sistolik0 - sistolik7)                      t =   6.2033
Ho: mean(diff) = 0                               degrees of freedom =        4

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9983         Pr(|T| > |t|) = 0.0034          Pr(T > t) = 0.0017
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_pendidikan)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
pendidik	11	10.36364	3.57586	11.85979	2.396123	18.33115
pendidik	5	13.6	1.964688	4.393177	8.145151	19.05485
combined	16	11.375	2.516405	10.06562	6.011411	16.73859
diff		-3.236364	5.552574		-15.14545	8.672722

```
    diff = mean(pendidik) - mean(pendidik)                        t =  -0.5829
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2846         Pr(|T| > |t|) = 0.5693          Pr(T > t) = 0.7154
```

c. Intervensi Pembanding II

1) Umur

<60 tahun

Pre

```
.  sum sistolik_0 if kat_usia ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	12	147.4167	9.652681	135	162

Post

```
.  sum sistolik_7 if kat_usia ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	12	135.25	9.146534	123	151

Normalitas

```
.  swilk sistolik_0 sistolik_7 if kat_usia ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik_0	12	0.92092	1.321	0.543	0.29360
sistolik_7	12	0.89722	1.717	1.054	0.14605

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik_0= sistolik_7 if kat_usia ==1

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	12	147.4167	2.786489	9.652681	141.2836	153.5497
sistol~7	12	135.25	2.640377	9.146534	129.4386	141.0614
diff	12	12.16667	1.506719	5.219428	8.850401	15.48293

```
    mean(diff) = mean(sistolik_0 - sistolik_7)                    t =   8.0749
Ho: mean(diff) = 0                                 degrees of freedom =       11

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
```

>60 tahun

Pre

```
. sum sistolik_0 if kat_usia ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	4	151	2.581989	148	154

Post

```
. sum sistolik_7 if kat_usia ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	4	136.5	3.109126	134	141

Normalitas

```
. swilk sistolik_0 sistolik_7 if kat_usia ==2
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
sistolik_0	4	0.99291	0.082	-1.909	0.97188
sistolik_7	4	0.85422	1.681	0.706	0.24012

Paired t-test (data terdistribusi normal)

```
. ttest sistolik_0= sistolik_7 if kat_usia ==2
```

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	4	151	1.290994	2.581989	146.8915	155.1085
sistol~7	4	136.5	1.554563	3.109126	131.5527	141.4473
diff	4	14.5	2.598076	5.196152	6.231762	22.76824

```
    mean(diff) = mean(sistolik_0 - sistolik_7)                    t =   5.5811
Ho: mean(diff) = 0                                     degrees of freedom =        3

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9943         Pr(|T| > |t|) = 0.0114          Pr(T > t) = 0.0057
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_usia)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
<60 Tahu	12	-12.16667	1.506719	5.219428	-15.48293	-8.850401
>60 Tahu	4	-14.5	2.598076	5.196152	-22.76824	-6.231762
combined	16	-12.75	1.286144	5.144576	-15.49135	-10.00865
diff		2.333333	3.010563		-4.123683	8.79035

```
    diff = mean(<60 Tahu) - mean(>60 Tahu)                        t =   0.7750
Ho: diff = 0                                           degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.7744         Pr(|T| > |t|) = 0.4512          Pr(T > t) = 0.2256
```

2) IMT

Normal

Pre

```
. sum sistolik0 if kat_IMT ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	9	148.7778	8.43768	135	160

Post

```
. sum sistolik7 if kat_IMT ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	9	136	9.069179	123	151

Normalitas

```
. swilk sistolik0 sistolik7 if kat_IMT ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	9	0.93135	1.009	0.014	0.49428
sistolik7	9	0.97945	0.302	-1.767	0.96137

Paired t-test (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_IMT ==1

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	9	45	22.5
negative	0	0	22.5
zero	0	0	0
all	9	45	45

```
unadjusted variance        71.25
adjustment for ties        -0.25
adjustment for zeros         0.00
                        ----------
adjusted variance          71.00

Ho: sistolik0 = sistolik7
              z =   2.670
    Prob > |z| =   0.0076
```

Obesitas

Pre

```
. sum sistolik0 if kat_IMT ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	7	147.7143	9.214378	135	162

Post

```
. sum sistolik7 if kat_IMT ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	7	135	6.97615	129	150

Normalitas

```
. swilk sistolik0 sistolik7 if kat_IMT ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	7	0.93053	0.912	-0.139	0.55540
sistolik7	7	0.75853	3.172	2.155	0.01557

Wilcoxon (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_IMT ==2

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	7	28	14
negative	0	0	14
zero	0	0	0
all	7	28	28

```
unadjusted variance        35.00
adjustment for ties        -0.25
adjustment for zeros        0.00
                           ------
adjusted variance          34.75

Ho: sistolik0 = sistolik7
              z =   2.375
    Prob > |z| =   0.0176
```

Uji beda

```
.    ttest selisih_sistol, by (kat_IMT)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Normal	9	12.77778	1.869178	5.607535	8.467445	17.08811
Obesitas	7	12.71429	1.860802	4.92322	8.161067	17.2675
combined	16	12.75	1.286144	5.144576	10.00865	15.49135
diff		.0634921	2.683566		-5.692184	5.819169

```
    diff = mean(Normal) - mean(Obesitas)                      t =   0.0237
Ho: diff = 0                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.5093         Pr(|T| > |t|) = 0.9815          Pr(T > t) = 0.4907
```

3) Riwayat Keluarga

Ya

Pre

```
. sum sistolik0 if kat_riwayatKeluarga ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	12	147.5833	8.522253	135	162

Post

```
. sum sistolik7 if kat_riwayatKeluarga ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	12	135.4167	7.452374	123	150

Normalitas

```
. swilk sistolik0 sistolik7 if kat_riwayatKeluarga ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	12	0.93414	1.100	0.186	0.42606
sistolik7	12	0.96762	0.541	-1.197	0.88432

Wilcoxon (data tidak terdistribusi normal)

```
. signrank sistolik0= sistolik7 if kat_riwayatKeluarga ==1

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	12	78	39
negative	0	0	39
zero	0	0	0
all	12	78	78

```
unadjusted variance      162.50
adjustment for ties       -0.50
adjustment for zeros       0.00
                        ---------
adjusted variance        162.00

Ho: sistolik0 = sistolik7
            z =   3.064
    Prob > |z| =   0.0022
```

Tidak

Pre

```
. sum sistolik0 if kat_riwayatKeluarga ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik0	4	150.5	9.291573	138	160

Post

```
. sum sistolik7 if kat_riwayatKeluarga ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik7	4	136	10.67708	126	151

Normalitas

```
.  swilk sistolik0 sistolik7 if kat_riwayatKeluarga ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik0	4	0.96205	0.438	-0.813	0.79181
sistolik7	4	0.91405	0.991	-0.010	0.50411

Wilcoxon (data tidak terdistribusi n ormal)

```
.  signrank sistolik0= sistolik7 if kat_riwayatKeluarga ==2

Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	4	10	5
negative	0	0	5
zero	0	0	0
all	4	10	10

```
unadjusted variance         7.50
adjustment for ties         0.00
adjustment for zeros        0.00
                        ----------
adjusted variance           7.50

Ho: sistolik0 = sistolik7
                z =   1.826
    Prob > |z| =   0.0679
```

Uji beda

```
.    ttest selisih_sistol, by (kat_riwayatKeluarga)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
Ya	12	12.16667	1.536591	5.322906	8.784653	15.54868
Tidak	4	14.5	2.397916	4.795832	6.868762	22.13124
combined	16	12.75	1.286144	5.144576	10.00865	15.49135
diff		-2.333333	3.010563		-8.79035	4.123683

```
    diff = mean(Ya) - mean(Tidak)                                 t =  -0.7750
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.2256         Pr(|T| > |t|) = 0.4512          Pr(T > t) = 0.7744
```

4) Lama Menderita ≥5 Tahun

Pre

```
.  sum sistolik_0 if LamaMenderita ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	3	148	8.717798	138	154

Post

```
. sum sistolik_7 if LamaMenderita ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	3	137	9.848858	126	145

Normalitas

```
. swilk sistolik_0 sistolik_7 if LamaMenderita ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik_0	3	0.84211	2.357	0.774	0.21954
sistolik_7	3	0.93041	1.039	0.025	0.49016

Paired t-test (data terdistribusi normal)

```
. ttest sistolik_0= sistolik_7 if LamaMenderita ==1

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	3	148	5.033223	8.717798	126.3438	169.6562
sistol~7	3	137	5.686241	9.848858	112.5341	161.4659
diff	3	11	2.081666	3.605551	2.043314	19.95669

```
     mean(diff) = mean(sistolik_0 - sistolik_7)                    t =   5.2842
 Ho: mean(diff) = 0                                     degrees of freedom =        2

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9830         Pr(|T| > |t|) = 0.0340          Pr(T > t) = 0.0170
```

≤5 Tahun

Pre

```
. sum sistolik_0 if LamaMenderita ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	13	148.3846	8.808504	135	162

Post

```
. sum sistolik_7 if LamaMenderita ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	13	135.2308	7.917847	123	151

Normalitas

```
. swilk sistolik_0 sistolik_7 if LamaMenderita ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik_0	13	0.94021	1.053	0.102	0.45956
sistolik_7	13	0.88113	2.094	1.448	0.07387

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik_0= sistolik_7 if LamaMenderita ==2

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	13	148.3846	2.443039	8.808504	143.0617	153.7075
sistol~7	13	135.2308	2.196016	7.917847	130.4461	140.0155
diff	13	13.15385	1.51846	5.474884	9.845407	16.46229

```
     mean(diff) = mean(sistolik_0 - sistolik_7)                    t =   8.6626
 Ho: mean(diff) = 0                                     degrees of freedom =       12

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (LamaMenderita)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
≥5 Tahun	3	-11	2.081666	3.605551	-19.95669	-2.043314
≤5 Tahun	13	-13.15385	1.51846	5.474884	-16.46229	-9.845407
combined	16	-12.75	1.286144	5.144576	-15.49135	-10.00865
diff		2.153846	3.361895		-5.056702	9.364394

```
    diff = mean(≥5 Tahun) - mean(≤5 Tahun)                        t =   0.6407
Ho: diff = 0                                             degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.7340         Pr(|T| > |t|) = 0.5321          Pr(T > t) = 0.2660
```

5) Pekerjaan

Tidak bekerja

Pre

```
.  sum sistolik_0 if kat_pekerjaan ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	12	147.5	7.775252	135	160

Post

```
.  sum sistolik_7 if kat_pekerjaan ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	12	134.5	7.798601	123	151

Normalitas

```
.  swilk sistolik_0 sistolik_7 if kat_pekerjaan ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik_0	12	0.95101	0.818	-0.390	0.65184
sistolik_7	12	0.92749	1.212	0.374	0.35422

Paired t-test (data terdisribusi normal)

```
.  ttest sistolik_0= sistolik_7 if kat_pekerjaan ==1

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	12	147.5	2.244522	7.775252	142.5598	152.4402
sistol~7	12	134.5	2.251262	7.798601	129.545	139.455
diff	12	13	1.600189	5.543219	9.478007	16.52199

```
     mean(diff) = mean(sistolik_0 - sistolik_7)                    t =   8.1240
 Ho: mean(diff) = 0                                     degrees of freedom =       11

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
```

Bekerja

Pre

```
.  sum sistolik_0 if kat_pekerjaan ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	4	150.75	11.35415	135	162

Post

```
.  sum sistolik_7 if kat_pekerjaan ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	4	138.75	8.770215	129	150

Normalitas

```
.  swilk sistolik_0 sistolik_7 if kat_pekerjaan ==2

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik_0	4	0.92253	0.893	-0.129	0.55120
sistolik_7	4	0.98785	0.140	-1.609	0.94621

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik_0= sistolik_7 if kat_pekerjaan ==2

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	4	150.75	5.677074	11.35415	132.683	168.817
sistol~7	4	138.75	4.385107	8.770215	124.7946	152.7054
diff	4	12	2.160247	4.320494	5.12513	18.87487

```
     mean(diff) = mean(sistolik_0 - sistolik_7)                    t =   5.5549
 Ho: mean(diff) = 0                                     degrees of freedom =        3

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9942         Pr(|T| > |t|) = 0.0115          Pr(T > t) = 0.0058
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_pekerjaan)

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
tidak be	12	-13	1.600189	5.543219	-16.52199	-9.478007
bekerja	4	-12	2.160247	4.320494	-18.87487	-5.12513
combined	16	-12.75	1.286144	5.144576	-15.49135	-10.00865
diff		-1	3.062834		-7.569126	5.569126

```
    diff = mean(tidak be) - mean(bekerja)                         t =  -0.3265
Ho: diff = 0                                     degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.3744         Pr(|T| > |t|) = 0.7489          Pr(T > t) = 0.6256
```

6) Pendidikan

Pendidikan tinggi

Pre

```
.  sum sistolik_0 if kat_pendidikan ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	11	150.5455	7.474806	135	162

Post

```
.  sum sistolik_7 if kat_pendidikan ==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	11	137	8.160882	123	151

Normalitas

```
.  swilk sistolik_0 sistolik_7 if kat_pendidikan ==1

                    Shapiro-Wilk W test for normal data
```

Variable	Obs	W	V	z	Prob>z
sistolik_0	11	0.96616	0.548	-1.017	0.84536
sistolik_7	11	0.92171	1.268	0.431	0.33315

Paired t-test (data terdistribusi normal)

```
.  ttest sistolik_0= sistolik_7 if kat_pendidikan ==1

Paired t test
```

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	11	150.5455	2.253739	7.474806	145.5238	155.5671
sistol~7	11	137	2.460599	8.160882	131.5174	142.4826
diff	11	13.54545	1.123012	3.724611	11.04323	16.04768

```
     mean(diff) = mean(sistolik_0 - sistolik_7)                   t =  12.0617
 Ho: mean(diff) = 0                                degrees of freedom =       10

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
```

Pendidikan rendah

Pre

```
. sum sistolik_0 if kat_pendidikan ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_0	5	143.4	9.343447	135	155

Post

```
. sum sistolik_7 if kat_pendidikan ==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sistolik_7	5	132.4	7.334848	126	145

Normalitas

```
. swilk sistolik_0 sistolik_7 if kat_pendidikan ==2
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
sistolik_0	5	0.81917	2.135	1.200	0.11507
sistolik_7	5	0.82956	2.012	1.089	0.13806

Paired t-test/ (data terdistribusi normal)

```
. ttest sistolik_0= sistolik_7 if kat_pendidikan ==2
```

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
sistol~0	5	143.4	4.178516	9.343447	131.7986	155.0014
sistol~7	5	132.4	3.280244	7.334848	123.2926	141.5074
diff	5	11	3.435113	7.681146	1.462598	20.5374

```
     mean(diff) = mean(sistolik_0 - sistolik_7)                    t =   3.2022
 Ho: mean(diff) = 0                                     degrees of freedom =        4

 Ha: mean(diff) < 0           Ha: mean(diff) != 0           Ha: mean(diff) > 0
 Pr(T < t) = 0.9836         Pr(|T| > |t|) = 0.0328          Pr(T > t) = 0.0164
```

Uji beda

```
.   ttest selisih_Sistol_TD, by (kat_pendidikan)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf.	Interval]
pendidik	11	-13.54545	1.123012	3.724611	-16.04768	-11.04323
pendidik	5	-11	3.435113	7.681146	-20.5374	-1.462598
combined	16	-12.75	1.286144	5.144576	-15.49135	-10.00865
diff		-2.545455	2.790437		-8.530347	3.439438

```
    diff = mean(pendidik) - mean(pendidik)                        t =  -0.9122
Ho: diff = 0                                           degrees of freedom =       14

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.1886         Pr(|T| > |t|) = 0.3771          Pr(T > t) = 0.8114
```

2. Efektivitas Tekanan Darah Sebelum Dan Sesudah Diberikan Rebusan Kombinasi Daun Kemangi Dan Daun Blimbing Wuluh Pada Penderita Hipertensi

a. Analisis rata-rata perubahan tekanan darah dalam setiap post setelah pemberian rebusan

1) Kombinasi

Normalitas

```
. swilk sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 s
> istolik7

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V         z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         16    0.81164      3.816     2.660    0.00390
   sistolik1 |         16    0.89094      2.210     1.575    0.05764
   sistolik2 |         16    0.86421      2.751     2.010    0.02220
   sistolik3 |         16    0.89363      2.155     1.525    0.06359
   sistolik4 |         16    0.87646      2.503     1.822    0.03419
   sistolik5 |         16    0.86432      2.749     2.009    0.02229
   sistolik6 |         16    0.87744      2.483     1.807    0.03541
   sistolik7 |         16    0.88048      2.422     1.757    0.03948
```

Hari 1

```
. signrank sistolik0= sistolik1

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |       16          136          68
    negative |        0            0          68
        zero |        0            0           0
-------------+---------------------------------
         all |       16          136         136

unadjusted variance      374.00
adjustment for ties       -8.38
adjustment for zeros       0.00
                        ----------
adjusted variance        365.63

Ho: sistolik0 = sistolik1
             z =   3.556
    Prob > |z| =   0.0004
```

Hari 2

```
. signrank sistolik0= sistolik2

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -5.13
adjustment for zeros       0.00
                        --------
adjusted variance        368.88

Ho: sistolik0 = sistolik2
             z =   3.541
    Prob > |z| =   0.0004
```

Hari 3

```
. signrank sistolik0= sistolik3

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       15         135        67.5
    negative |        0           0        67.5
        zero |        1           1           1
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -2.63
adjustment for zeros      -0.25
                        --------
adjusted variance        371.13

Ho: sistolik0 = sistolik3
             z =   3.504
    Prob > |z| =   0.0005
```

Hari 4

```
. signrank sistolik0= sistolik4

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -1.25
adjustment for zeros       0.00
                        --------
adjusted variance        372.75

Ho: sistolik0 = sistolik4
             z =   3.522
    Prob > |z| =   0.0004
```

Hari 5

```
. signrank sistolik0= sistolik5

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |       16          136          68
    negative |        0            0          68
        zero |        0            0           0
-------------+---------------------------------
         all |       16          136         136

unadjusted variance      374.00
adjustment for ties       -1.63
adjustment for zeros       0.00
                        --------
adjusted variance        372.38

Ho: sistolik0 = sistolik5
             z =   3.524
    Prob > |z| =   0.0004
```

Hari 6

```
. signrank sistolik0= sistolik6

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |       16          136          68
    negative |        0            0          68
        zero |        0            0           0
-------------+---------------------------------
         all |       16          136         136

unadjusted variance      374.00
adjustment for ties       -1.88
adjustment for zeros       0.00
                        --------
adjusted variance        372.13

Ho: sistolik0 = sistolik6
             z =   3.525
    Prob > |z| =   0.0004
```

Hari 7

```
. signrank sistolik0= sistolik7

Wilcoxon signed-rank test

        sign |      obs    sum ranks    expected
-------------+---------------------------------
    positive |       16          136          68
    negative |        0            0          68
        zero |        0            0           0
-------------+---------------------------------
         all |       16          136         136

unadjusted variance      374.00
adjustment for ties       -2.38
adjustment for zeros       0.00
                        --------
adjusted variance        371.63

Ho: sistolik0 = sistolik7
             z =   3.527
    Prob > |z| =   0.0004
```

2) Kemangi

Normalitas

```
. swilk sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 sis
> tolik7

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         16    0.88382      2.354      1.700    0.04452
   sistolik1 |         16    0.93614      1.294      0.512    0.30435
   sistolik2 |         16    0.90752      1.874      1.247    0.10614
   sistolik3 |         16    0.92899      1.439      0.723    0.23493
   sistolik4 |         16    0.92215      1.577      0.905    0.18263
   sistolik5 |         16    0.93015      1.415      0.690    0.24517
   sistolik6 |         16    0.93017      1.415      0.689    0.24531
   sistolik7 |         16    0.95369      0.938     -0.126    0.55028
```

Hari 1

```
. signrank sistolik0= sistolik1

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       12       109.5        66.5
    negative |        2        23.5        66.5
        zero |        2           3           3
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties      -10.75
adjustment for zeros      -1.25
                     ----------
adjusted variance        362.00

Ho: sistolik0 = sistolik1
            z =   2.260
    Prob > |z| =   0.0238
```

Hari 2

```
. signrank sistolik0= sistolik2

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       15         135        67.5
    negative |        0           0        67.5
        zero |        1           1           1
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -2.50
adjustment for zeros      -0.25
                     ----------
adjusted variance        371.25

Ho: sistolik0 = sistolik2
            z =   3.503
    Prob > |z| =   0.0005
```

Hari 3

```
. signrank sistolik0= sistolik3

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       15         135        67.5
    negative |        0           0        67.5
        zero |        1           1           1
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -1.88
adjustment for zeros      -0.25
                     ----------
adjusted variance        371.88

Ho: sistolik0 = sistolik3
             z =   3.500
    Prob > |z| =   0.0005
```

Hari 4

```
. signrank sistolik0= sistolik4

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -1.38
adjustment for zeros       0.00
                     ----------
adjusted variance        372.63

Ho: sistolik0 = sistolik4
             z =   3.523
    Prob > |z| =   0.0004
```

Hari 5

```
. signrank sistolik0= sistolik5

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -1.13
adjustment for zeros       0.00
                        --------
adjusted variance        372.88

Ho: sistolik0 = sistolik5
             z =   3.521
    Prob > |z| =   0.0004
```

Hari 6

```
. signrank sistolik0= sistolik6

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -1.25
adjustment for zeros       0.00
                        --------
adjusted variance        372.75

Ho: sistolik0 = sistolik6
             z =   3.522
    Prob > |z| =   0.0004
```

Hari 7

```
. signrank sistolik0= sistolik7

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       14         128          68
    negative |        2           8          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -0.63
adjustment for zeros       0.00
                        --------
adjusted variance        373.38

Ho: sistolik0 = sistolik7
             z =   3.105
    Prob > |z| =   0.0019
```

3) Belimbing wuluh

Normalitas

```
. swilk sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistol
> ik6 sistolik7

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         16    0.93351      1.347      0.592     0.27691
   sistolik1 |         16    0.95540      0.904     -0.201     0.57969
   sistolik2 |         16    0.95779      0.855     -0.311     0.62200
   sistolik3 |         16    0.96637      0.681     -0.762     0.77692
   sistolik4 |         16    0.96947      0.619     -0.954     0.82990
   sistolik5 |         16    0.98721      0.259     -2.682     0.99634
   sistolik6 |         16    0.95252      0.962     -0.077     0.53056
   sistolik7 |         16    0.94098      1.196      0.355     0.36124
```

Hari 1

```
. signrank sistolik0= sistolik1

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       13         130          65
    negative |        0           0          65
        zero |        3           6           6
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -5.00
adjustment for zeros      -3.50
                     ----------
adjusted variance        365.50

Ho: sistolik0 = sistolik1
             z =   3.400
    Prob > |z| =   0.0007
```

Hari 2

```
. signrank sistolik0= sistolik2

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       15         135        67.5
    negative |        0           0        67.5
        zero |        1           1           1
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -2.38
adjustment for zeros      -0.25
                     ----------
adjusted variance        371.38

Ho: sistolik0 = sistolik2
             z =   3.503
    Prob > |z| =   0.0005
```

Hari 3

```
. signrank sistolik0= sistolik3

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -2.50
adjustment for zeros       0.00
                       ----------
adjusted variance        371.50

Ho: sistolik0 = sistolik3
            z =   3.528
    Prob > |z| =   0.0004
```

Hari 4

```
. signrank sistolik0= sistolik4

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -2.00
adjustment for zeros       0.00
                       ----------
adjusted variance        372.00

Ho: sistolik0 = sistolik4
            z =   3.526
    Prob > |z| =   0.0004
```

Hari 5

```
. signrank sistolik0= sistolik5

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       15         127          68
    negative |        1           9          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -1.25
adjustment for zeros       0.00
                       ----------
adjusted variance        372.75

Ho: sistolik0 = sistolik5
            z =   3.056
    Prob > |z| =   0.0022
```

Hari 6

```
. signrank sistolik0= sistolik6

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       15       134.5          68
    negative |        1         1.5          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -0.38
adjustment for zeros       0.00
                        ---------
adjusted variance        373.63

Ho: sistolik0 = sistolik6
              z =   3.440
    Prob > |z| =   0.0006
```

Hari 7

```
. signrank sistolik0= sistolik7

Wilcoxon signed-rank test

        sign |      obs   sum ranks    expected
-------------+---------------------------------
    positive |       16         136          68
    negative |        0           0          68
        zero |        0           0           0
-------------+---------------------------------
         all |       16         136         136

unadjusted variance      374.00
adjustment for ties       -0.88
adjustment for zeros       0.00
                        ---------
adjusted variance        373.13

Ho: sistolik0 = sistolik7
              z =   3.520
    Prob > |z| =   0.0004
```

b. **Analisis rerata perubahan tekanan darah sebelum dan sesudah intervensi**

1) Kombinasi

Normalitas

```
.   swilk sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 s
> istolik7

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         16    0.81164      3.816      2.660    0.00390
   sistolik1 |         16    0.89094      2.210      1.575    0.05764
   sistolik2 |         16    0.86421      2.751      2.010    0.02220
   sistolik3 |         16    0.89363      2.155      1.525    0.06359
   sistolik4 |         16    0.87646      2.503      1.822    0.03419
   sistolik5 |         16    0.86432      2.749      2.009    0.02229
   sistolik6 |         16    0.87744      2.483      1.807    0.03541
   sistolik7 |         16    0.88048      2.422      1.757    0.03948
```

Uji

```
.   friedman sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik
> 6 sistolik7 if Kelompok ==1

Friedman = 101.0129
Kendall =    0.8418
P-value =    0.0000
```

2) Kemangi

Normalitas

```
.   swilk sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 s
> istolik7

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         16    0.88382      2.354      1.700    0.04452
   sistolik1 |         16    0.93614      1.294      0.512    0.30435
   sistolik2 |         16    0.90752      1.874      1.247    0.10614
   sistolik3 |         16    0.92899      1.439      0.723    0.23493
   sistolik4 |         16    0.92215      1.577      0.905    0.18263
   sistolik5 |         16    0.93015      1.415      0.690    0.24517
   sistolik6 |         16    0.93017      1.415      0.689    0.24531
   sistolik7 |         16    0.95369      0.938     -0.126    0.55028
```

Uji

```
. friedman sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6
> sistolik7

Friedman = 109.6268
Kendall =    0.9136
P-value =    0.0000
```

3) Belimbing Wuluh

Normalitas

```
.   swilk sistolik0 sistolik1 sistolik2 sistolik3 sistolik4 sistolik5 sistolik6 s
> istolik7

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
   sistolik0 |         16    0.93351      1.347      0.592    0.27691
   sistolik1 |         16    0.95540      0.904     -0.201    0.57969
   sistolik2 |         16    0.95779      0.855     -0.311    0.62200
   sistolik3 |         16    0.96637      0.681     -0.762    0.77692
   sistolik4 |         16    0.96947      0.619     -0.954    0.82990
   sistolik5 |         16    0.98721      0.259     -2.682    0.99634
   sistolik6 |         16    0.95252      0.962     -0.077    0.53056
   sistolik7 |         16    0.94098      1.196      0.355    0.36124
```

Uji

```
. anova sistolik subject hari, repeated (hari)

                           Number of obs =        128    R-squared     =  0.8761
                           Root MSE      =     3.3722    Adj R-squared =  0.8502

      Source | Partial SS         df         MS        F     Prob>F
-------------+----------------------------------------------------
       Model |  8444.1875         22    383.8267     33.75  0.0000

     subject |  6328.4688         15   421.89792     37.10  0.0000
        hari |  2115.7187          7   302.24554     26.58  0.0000

    Residual |  1194.0313        105   11.371726
-------------+----------------------------------------------------
       Total |  9638.2188        127   75.891486


Between-subjects error term:  subject
                     Levels:  16        (15 df)
         Lowest b.s.e. variable:  subject

Repeated variable: hari
                                        Huynh-Feldt epsilon        =  0.4570
                                        Greenhouse-Geisser epsilon =  0.3720
                                        Box's conservative epsilon =  0.1429

                                                  ---------- Prob > F ----------
      Source |  df      F     Regular    H-F      G-G      Box
-------------+----------------------------------------------------
        hari |   7    26.58   0.0000   0.0000   0.0000   0.0001
    Residual | 105
-------------+----------------------------------------------------
```

3. Perbedaan Efektivitas Rebusan Daun Kemangi dan Daun Blimbing Wuluh Terhadap Perubahan Tekanan Darah

a. Uji Normalitas

```
.   swilk selisih_sistolik

                    Shapiro-Wilk W test for normal data

    Variable |        Obs       W           V          z       Prob>z
-------------+-------------------------------------------------------
selisih_si~k |         48     0.93385       3.013      2.346     0.00948
```

b. Uji Kurskal Wallis

```
.  kwallis selisih_sistolik, by (Kelompok)

Kruskal-Wallis equality-of-populations rank test
```

Kelompok	Obs	Rank Sum
kombinasi	16	519.00
kemangi	16	365.50
BW	16	291.50

```
chi-squared =     8.588 with 2 d.f.
probability =     0.0137

chi-squared with ties =     8.645 with 2 d.f.
probability =     0.0133
```

c. Post hoc

```
.   pwmean selisih_sistolik, over (Kelompok) mcompare (tukey) effects

Pairwise comparisons of means with equal variances

over         : Kelompok
```

	Number of Comparisons
Kelompok	3

selisih_sistolik	Contrast	Std. Err.	Tukey t	Tukey P>|t|	Tukey [95% Conf.	Interval]
Kelompok						
kemangi vs kombinasi	-3.8125	2.029599	-1.88	0.157	-8.731464	1.106464
BW vs kombinasi	-6.3125	2.029599	-3.11	0.009	-11.23146	-1.393536
BW vs kemangi	-2.5	2.029599	-1.23	0.441	-7.418964	2.418964

Lampiran 9 Pembuatan Rebusan

Lampiran 9 Dokumentasi Kegiatan Penelitian







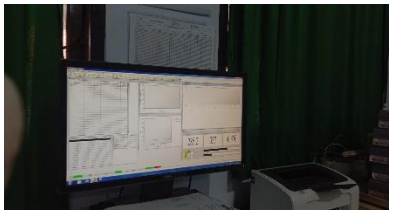

Lampiran 10 Dokumentasi Kegiatan Penelitian (Laboratorium)

1. Magnesium (Mg)









2. Tannin dan Flavonoid

Lampiran 11

DAFTAR RIWAYAT HIDUP

A. Data Pribadi

1. Nama : Satriana
2. Tempat, Tanggal Lahir : Salo Dua, 26 Mei 1999
3. Alamat : Jl. A.P Pettarani III
4. Kewarganegaraan : Warga Negara Indonesia

B. Riwayat Pendidikan

1. Tamat SD tahun 2011 di SD Negeri 63 Santunan
2. Tamat SMP tahun 2014 di Mts P.P Al Urwatul Wutsqaa
3. Tamat SMA tahun 2017 di MA P.P Al Urwatul Wutsqaa
4. Strata 1 (S1) tahun 2021 di Universitas Muhammadiyah Parepare

C. Karya Ilmiah yang telah Dipublikasikan

1. Satriana, Hengky, H. K., Nurlinda, & Anggraeni, R. (2021). Kecenderungan Body Dysmorphic Disorder Dengan Perilaku Diet Pada Mahasiswi Fikes UM Parepare. *Jurnal Ilmiah Manusia Dan Kesehatan Universitas Muhammadiyah Parepare*, 1–17.