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LAMPIRAN

Lampiran 1. Lembar Persetujuan Etik

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

REKOMENDASI PERSETUJUAN ETIK
Nomor : 28/UN4.6.4.5.31/ PP36/ 2024

Tanggal: 12 Januari 2024

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

No Protokol	UH23120921	No Sponsor	
Peneliti Utama	**dr. Ngalasantaru Janstar Tarigan**	Sponsor	
Judul Peneliti	PERBANDINGAN PENGARUH TERAPI ADJUVANT CONSTRAINT INDUCED MOVEMENT THERAPY DENGAN REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION TERHADAP FUNGSI MOTORIK EKSTREMITAS ATAS PADA PASIEN STROKE ISKEMIK		
No Versi Protokol	**2**	Tanggal Versi	**11 Januari 2024**
No Versi PSP	**2**	Tanggal Versi	**11 Januari 2024**
Tempat Penelitian	RSUP dr. Wahidin Sudirohusodo dan Jejaring di Makassar		
Jenis Review	☐ Exempted ☐ Expedited ☒ Fullboard Tanggal **11 Januari 2024**	Masa Berlaku **12 Januari 2024** sampai **12 Januari 2025**	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Nama **Prof. dr. Muh Nasrum Massi,PhD,SpMK, Subsp. Bakt(K)**	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	Nama **dr. Firdaus Hamid, PhD, SpMK(K)**	Tanda tangan	

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

Lampiran 2. Naskah Penjelasan Penelitian

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN KESEHATAN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
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Contact Person: dr. Agussalim Bukhari.,MMed,PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

NASKAH PENJELASAN

Selamat pagi Bapak/Ibu, Assalamualaikum Warahmatullahi Wabarakatuh. Perkenalkan saya dr. Ngalasantaru Janstar Tarigan dari Departemen Neurologi Fakultas Kedokteran UNHAS, yang berencana akan melakukan penelitian untuk mengetahui Perbandingan pengaruh *constraint induced movement therapy* disertai terapi standar dengan *Repetitive Transcranial Magnetic Stimulation (rTMS)* disertai terapi standar terhadap fungsi motoric ekstremitas atas pada pasien stroke iskemik yang dialami bapak/Ibu.

Constraint-Induced Movement Therapy (CIMT) adalah teknik yang bertujuan untuk mengintegrasikan kembali lengan yang terkena dalam kinerja Aktivitas Kehidupan Sehari-hari (ADLs) dan mengurangi *non-use learned*. Untuk mencapaitujuan ini, CIMT mengusulkan untuk membatasi pergerakan lengan pasien yang kurang terpengaruh selama sekitar 90% dari jam bangun pasien, yang secara fisik memaksa penggunaan lengan yang terkena selama kinerja ADL. Teknik CIMT ini dilakukan terus menerus selama 30 hari, dan setiap harinya partisipan melakuakn Latihan selama 6 jam.

Repetitive Transcranial Magnetic Stimulation adalah metode terapi non invasif untuk stimulasi otak dengan menggunakan magnet yang ditargetkan pada suatu area tertentu di otak. Intervensi dilakukan dengan nakan frekuensi rendah 1 Hz pada M1 kontralesi dan frekuensi Hz pada M1 ipsilesi. Stimulasi ini dilakukan selama 10 kali, dengan

5 kali secara berturut-turut kemudian jeda 2 hari lalu dilanjutkan stimulasi 5 kali berturut-turut lagi.

Terlebih dahulu, kami akan mencatat identitas Bapak/Ibu (nama, alamat, umur, jenis kelamin, pekerjaan, riwayat penyakit sebelumnya), lalu melakukan pengukuran skor *Fugl Mayer Upper Extremity*. Langkah selanjutnya kami akan melakukan tindakan CIMT atau rTMS pada bapak/ibu.

Kami akan mencatat dan mengolah semua data yang sudah kami peroleh, hasil dari pengolahan data akan kami tampilkan di jurnal ilmiah tanpa membuka informasi data pribadi subyek penelitian. Kerahasiaan data dijamin dan hanya diketahui oleh peneliti dan komisi etik. Hasil penelitian ini diharapkan dapat menjadi pengetahuan sebagai bahan edukasi terhadap prognosis stroke iskemik akut.

Keikutsertaan Bapak/Ibu dalam penelitian ini bersifat sukarela tanpa paksaan, karena itu bila Bapak/Ibu menolak ikut atau berhenti ikut pada penelitian ini tidak akan mengurangi atau kehilangan hak untuk mendapatkan pelayanan kesehatan standar rutin sesuai dengan penyakit yang Bapak/Ibu derita serta mendapat obat yang diperlukan.

Bila masih ada hal-hal yang ingin bapak/Ibu ketahui, atau masih ada hal-hal yang belum jelas, maka Bapak/Ibu bisa bertanya dan meminta penjelasan kami di Poliklinik Saraf Departemen Ilmu penyakit Saraf RSUP dr. Wahidin Sudirohusodo Makassar, atau secara langsung melalui No. HP peneliti: 081343165596.

emikian penjelasan saya, jika Bapak/Ibu bersedia untuk ıipasi, diharapkan menandatangani surat persetujuan mengikuti n. Atas kesediaan dan kerjasamanya diucapkan terima kasih.

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
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Contact Person: dr. Agussalim Bukhari.,MMed,PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

Identitas peneliti :

Nama : dr. Ngalasantaru Janstar Tarigan

Alamat : BTP Blok M No.612

Telepon : 081347702211

Lampiran 3. Formulir Persetujuan Setelah Penjelasan

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN KESEHATAN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
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Contact Person: dr. Agussalim Bukhari.,MMed,PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

FORMULIR PERSETUJUAN SETELAH PENJELASAN

Saya yang bertandatangan di bawah ini :

Nama : .....

Umur : .....

Alamat : ……..

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

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

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

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

	Nama	Tanda Tangan	Tgl/Bln/Thn
Responden/Wali	.....	.....	.....
Saksi	.....	.....	.....

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

1. Berusia di bawah 18 tahun
2. Gangguan mental
3. Pasien tidak sadar
4. Dan lain-lain kondisi yang tidak memungkinkan memberikan persetujuan

Penanggung Jawab Penelitian:

Nama : dr. Ngalasantaru Janstar Tarigan

Alamat : BTP Blok M No.612

Tlp : 081347702211

Penanggung Jawab Medis:

Nama : Dr.dr. David Gunawan Umbas, Sp.S(K)

Alamat : Jl Hertasning Baru Perum Anging Mammiri Blok D-5 no 5-6

Tlp : 081241183290

Lampiran 4. Fugl Meyer Assesment

FMA
(Fugl Meyer Assessment)

FUGL-MEYER ASSESSMENT ID:
UPPER EXTREMITY (FMA-UE) Date:
Assessment of sensorimotor function Examiner:

Fugl-Meyer AR, Jaasko L, Leyman I, Olsson S, Steglind S: The post-stroke hemiplegic patient. A method for evaluation of physical performance. Scand J Rehabil Med 1975, 7:13-31.

A. UPPER EXTREMITY, sitting position

I. Reflex activity		none	can be elicited
Flexors: biceps and finger flexors (at least one)		0	2
Extensors: triceps		0	2
	Subtotal I (max 4)		

II. Volitional movement within synergies, without gravitational help			none	partial	full
Flexor synergy: Hand from contralateral knee to ipsilateral ear. From extensor synergy (shoulder adduction/ internal rotation, elbow extension, forearm pronation) to flexor synergy (shoulder abduction/ external rotation, elbow flexion, forearm supination).	Shoulder	retraction	0	1	2
		elevation	0	1	2
		abduction (90°)	0	1	2
		external rotation	0	1	2
	Elbow	flexion	0	1	2
	Forearm	supination	0	1	2
Extensor synergy: Hand from ipsilateral ear to the contralateral knee	Shoulder	adduction/internal rotation	0	1	2
	Elbow	extension	0	1	2
	Forearm	pronation	0	1	2
		Subtotal II (max 18)			

III. Volitional movement mixing synergies, without compensation		none	partial	full
Hand to lumbar spine hand on lap	cannot perform or hand in front of ant-sup iliac spine hand behind ant-sup iliac spine (without compensation) hand to lumbar spine (without compensation)	0	1	2
Shoulder flexion 0° - 90° elbow at 0° pronation-supination 0°	immediate abduction or elbow flexion abduction or elbow flexion during movement flexion 90°, no shoulder abduction or elbow flexion	0	1	2
Pronation-supination elbow at 90° shoulder at 0°	no pronation/supination, starting position impossible limited pronation/supination, maintains starting position full pronation/supination, maintains starting position	0	1	2
	Subtotal III (max 6)			

IV. Volitional movement with little or no synergy		none	partial	full
Shoulder abduction 0 - 90° elbow at 0° forearm neutral	immediate supination or elbow flexion supination or elbow flexion during movement abduction 90°, maintains extension and pronation	0	1	2
Shoulder flexion 90° - 180° elbow at 0° pronation-supination 0°	immediate abduction or elbow flexion abduction or elbow flexion during movement flexion 180°, no shoulder abduction or elbow flexion	0	1	2
Pronation/supination elbow at 0° shoulder at 30° - 90° flexion	no pronation/supination, starting position impossible limited pronation/supination, maintains start position full pronation/supination, maintains starting position	0	1	2
	Subtotal IV (max 6)			

V. Normal reflex activity assessed only if full score of 4 points is achieved in part IV; compare with the unaffected side		hyper	lively	normal
Biceps, triceps, finger flexors	2 of 3 reflexes markedly hyperactive 1 reflex markedly hyperactive or at least 2 reflexes lively maximum of 1 reflex lively; none hyperactive	0	1	2
	Subtotal V (max 2)			
	Total A (max 36)			

B. WRIST support may be provided at the elbow to take or hold the starting position, no support at wrist, check the passive range of motion prior testing		none	partial	full
Stability at 15° dorsiflexion elbow at 90°, forearm pronated shoulder at 0°	less than 15° active dorsiflexion dorsiflexion 15°, no resistance tolerated maintains dorsiflexion against resistance	0	1	2
Repeated dorsiflexion / volar flexion elbow at 90°, forearm pronated shoulder at 0°, slight finger flexion	cannot perform volitionally limited active range of motion full active range of motion, smoothly	0	1	2
Stability at 15° dorsiflexion elbow at 0°, forearm pronated slight shoulder flexion/abduction	less than 15° active dorsiflexion dorsiflexion 15°, no resistance tolerated maintains dorsiflexion against resistance	0	1	2
Repeated dorsiflexion / volar flexion elbow at 0°, forearm pronated slight shoulder flexion/abduction	cannot perform volitionally limited active range of motion full active range of motion, smoothly	0	1	2
Circumduction elbow at 90°, forearm pronated shoulder at 0°	cannot perform volitionally jerky movement or incomplete complete and smooth circumduction	0	1	2
	Total B (max 10)			

C. HAND support may be provided at the elbow to keep 90° flexion, no support at the wrist, compare with unaffected hand, the objects are interposed, active grasp		none	partial	full
Mass flexion from full active or passive extension		0	1	2
Mass extension from full active or passive flexion		0	1	2
GRASP				
a. Hook grasp flexion in PIP and DIP (digits II-V), extension in MCP II-V	cannot be performed can hold position but weak maintains position against resistance	0	1	2
b. Thumb adduction 1-st CMC, MCP, IP at 0°, scrap of paper between thumb and 2-nd MCP joint	cannot be performed can hold paper but not against tug can hold paper against a tug	0	1	2
c. Pincer grasp, opposition pulpa of the thumb against the pulpa of 2-nd finger, pencil, tug upward	cannot be performed can hold pencil but not against tug can hold pencil against a tug	0	1	2
d. Cylinder grasp cylinder shaped object (small can) tug upward, opposition of thumb and fingers	cannot be performed can hold cylinder but not against tug can hold cylinder against a tug	0	1	2
e. Spherical grasp fingers in abduction/flexion, thumb opposed, tennis ball, tug away	cannot be performed can hold ball but not against tug can hold ball against a tug	0	1	2
	Total C (max. 14)			

D. COORDINATION/SPEED, sitting, after one trial with both arms, eyes closed, tip of the index finger from knee to nose, 5 times as fast as possible		marked	slight	none
Tremor		0	1	2
Dysmetria	pronounced or unsystematic slight and systematic no dysmetria	0	1	2
		≥ 6s	2 - 5s	< 2s
Time start and end with the hand on the knee	6 or more seconds slower than unaffected side 2-5 seconds slower than unaffected side less than 2 seconds difference	0	1	2
	Total D (max 5)			

TOTAL A-D (max 66)	

H. SENSATION, upper extremity eyes closed, compared with the unaffected side		anesthesia	hypoesthesia or dysesthesia	normal
Light touch	upper arm, forearm palmary surface of the hand	0 0	1 1	2 2
		less than 3/4 correct or absence	**3/4 correct or considerable difference**	**correct 100%, little or no difference**
Position small alterations in the position	shoulder elbow wrist thumb (IP-joint)	0 0 0 0	1 1 1 1	2 2 2 2
			Total H (max12)	

I. PASSIVE JOINT MOTION, upper extremity. sitting position, compare with the unaffected side				**J. JOINT PAIN** during passive motion, upper extremity		
	only few degrees (less than 10° in shoulder)	decreased	normal	pronounced pain during movement or very marked pain at the end of the movement	some pain	no pain
Shoulder						
Flexion (0° - 180°]	0	1	2	0	1	2
Abduction (0°-90°)	0	1	2	0	1	2
External rotation	0	1	2	0	1	2
Internal rotation	0	1	2	0	1	2
Elbow						
Flexion	0	1	2	0	1	2
Extension	0	1	2	0	1	2
Forearm						
Pronation	0	1	2	0	1	2
Supination	0	1	2	0	1	2
Wrist						
Flexion	0	1	2	0	1	2
Extension	0	1	2	0	1	2
Fingers						
Flexion	0	1	2	0	1	2
Extension	0	1	2	0	1	2
Total (max 24)				**Total** (max 24)		

A. UPPER EXTREMITY	/36
B. WRIST	/10
C. HAND	/14
D. COORDINATION / SPEED	/ 6
TOTAL A-D (motor function)	/66

H. SENSATION	/12
I. PASSIVE JOINT MOTION	/24
J. JOINT PAIN	/24

Lampiran 5. Data Pasien

Tabel CIMT

NO	NAMA PASIEN	JK	USIA	ONSET	KLINIS	MMT	CT SCAN KEPALA	MEROKOK	HIPERTENSI	DM T2	PJK	DIAGNOSIS
1	Tn. H	L	56	7	Hemiparese Dextra	4	Infark Cerebri Sinistra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
2	Ny. H	P	55	9	Hemiparese Sinistra	4	Infark Cerebri Dextra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
3	Ny.S	L	48	8	Hemiparese Dextra	4	Infark Cerebri Sinistra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
4	Ny. N	P	70	19	Hemiparese Sinistra	3	Infark Cerebri Dextra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
5	Ny. N	P	42	7	Hemiparese Sinistra	4	Infark Cerebri Dextra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
6	Tn. T	L	50	7	Hemiparese Sinistra	4	Infark Cerebri Dextra	Ya	Ya	Tidak	Tidak	Cerebral Infarction
7	Ny. N	P	56	7	Hemiparese Sinistra	3	Infark Cerebri Dextra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
8	Tn.S	L	55	7	Hemiparese Dextra	4	Infark Pons Sinistra	Ya	Ya	Tidak	Ya	Cerebral Infarction
9	Ny. S	P	70	10	Hemiparese Sinistra	4	Infark Cerebri Dextra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
10	Ny. H	L	45	7	Hemiparese dextra	4	Infark Cerebri Sinistra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
11	Ny.I	P	55	8	Hemiparese Sinistra	4	Infark Cerebri Dextra	Tidsk	Ya	Tidak	Tidak	Cerebral Infarction
12	Tn. Y	L	61	7	Hemiparese Sinistra	4	Infark Cerebri Dextra	Ya	Ya	Tidak	Tidak	Cerebral Infarction
13	Tn. N	L	57	8	Hemiparese Sinistra	4	Infark Cerebri Dextra	Ya	Ya	Tidak	Tidak	Cerebral Infarction
14	Ny. S	P	51	8	Hemiparese dextra	4	Infark Cerebri Sinistra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction
15	Ny. D	P	67	8	Hemiparese Sinistra	4	Infark Cerebri Dextra	Tidak	Ya	Tidak	Tidak	Cerebral Infarction

NO	NAMA PASIEN
1	Tn. H
2	Ny. H
3	Ny.S
4	Ny. N
5	Ny. N
6	Tn. T
7	Ny. N
8	Tn.S
9	Ny. S
10	Ny. H
11	Ny.I
12	Tn. Y
13	Tn. N
14	Ny. S
15	Ny. D

PRE CIMT FMA UE					POST CIMT FMA UE (Hari ke 12)					POST rTMS FMA UE (Hari ke 30)					Delta H 0-12	Delta H 0-30
A./36	B./10	C./14	D./6	TOTAL MOTORIK	A./36	B./10	C./14	D./6	TOTAL MOTORIK	A./36	B./10	C./14	D./6	TOTAL MOTORIK		
32	10	12	4	58	32	10	14	4	60	36	10	14	4	64	2	6
31	10	10	5	56	32	10	10	5	57	34	10	12	5	61	1	5
24	5	11	5	45	26	5	11	5	47	30	8	12	5	55	2	10
19	5	7	0	31	20	5	9	0	34	20	5	10	0	35	3	4
24	5	10	5	44	28	5	10	5	48	30	7	12	5	54	4	10
29	5	12	5	51	31	5	12	5	53	33	8	12	5	58	2	7
27	6	14	5	52	30	7	14	5	56	34	8	14	5	61	4	9
32	8	11	5	56	34	8	11	5	58	36	8	14	5	63	2	7
28	8	7	5	48	32	8	8	5	53	34	8	10	5	57	5	9
24	8	14	4	50	26	8	14	4	52	28	8	14	5	55	2	5
27	8	12	5	52	28	8	12	5	53	32	8	14	5	59	1	7
33	10	14	5	62	34	10	14	5	63	36	10	14	6	66	1	4
27	5	11	3	46	30	6	11	4	51	32	6	11	5	54	5	8
30	5	9	4	48	33	5	10	4	52	33	7	11	5	56	4	8
24	6	10	4	44	25	7	10	4	46	27	8	12	5	52	2	8

KETERANGAN FMA-UE :
A UPPER EXTREMITY
B WRIST
C HAND
D COORDINATION/SPEED

Tabel rTMS

NO	NAMA PASIEN	JK	USIA	ONSET	KLINIS	MMT	CT SCAN KEPALA	MEROKOK	HIPERTENSI	DM T2	PJK
1	Tn. S	L	46	10	HEMIPARESE DEXTRA	4	INFARK CEREBRI SINISTRA	TIDAK	TIDAK	TIDAK	TIDAK
2	Ny. C	P	54	10	HEMIPARESE SINISTRA	3	INFARK CEREBRI DEXTRA	TIDAK	YA	TIDAK	TIDAK
3	Ny. S	P	64	11	HEMIPARESE SINISTRA	3	INFARK CEREBRI SINISTRA	TIDAK	YA	TIDAK	TIDAK
4	Ny. J	P	62	21	HEMIPARESE DEXTRA	3	INFARK CEREBRI SINISTRA	TIDAK	YA	TIDAK	TIDAK
5	Ny. A	P	61	15	HEMIPARESE SINISTRA	3	INFARK CEREBRI DEXTRA	TIDAK	YA	TIDAK	TIDAK
6	Ny. H	P	65	18	HEMIPARESE DEXTRA	4	INFARK CEREBRI SINISTRA	TIDAK	YA	TIDAK	TIDAK
7	Nn. R	P	20	16	HEMIPARESE SINISTRA	4	INFARK CEREBRI DEXTRA	TIDAK	TIDAK	TIDAK	TIDAK
8	Ny. N	P	70	18	HEMIPARESE	3	INFARK CEREBRI DEXTRA	TIDAK	YA	TIDAK	TIDAK
9	Tn. M	L	47	90	HEMIPARESE DEXTRA	4	INFARK CEREBRI SINISTRA	YA	YA	TIDAK	TIDAK
10	Ny. J	P	59	19	HEMIPARESE SINISTRA	3	INFARK CEREBRI DEXTRA	TIDAK	YA	TIDAK	TIDAK
11	Tn. S	L	31	12	HEMIPARESE DEXTRA	4	INFARK CEREBRI SINISTRA	TIDAK	YA	TIDAK	TIDAK
12	Tn. A	L	33	20	HEMIPARESE SINISTRA	3	INFARK CEREBRI DEXTRA	TIDAK	YA	TIDAK	TIDAK
13	Tn. A	L	57	24	HEMIPARESE DEXTRA	3	INFARK CEREBRI SINISTRA	TIDAK	YA	TIDAK	TIDAK
14	Tn. A	L	62	30	HEMIPARESE SINSTRA	3	INFARK CEREBRI DEXTRA	TIDAK	YA	TIDAK	TIDAK
15	Tn. M	L	69	22	HEMIPARESE DEXTRA	4	INFARK CEREBRI SINISTRA	TIDAK	YA	TIDAK	TIDAK

NO	NAMA PASIEN
1	Tn. S
2	Ny. C
3	Ny. S
4	Ny. J
5	Ny. A
6	Ny. H
7	Nn. R
8	Ny. N
9	Tn. M
10	Ny. J
11	Tn. S
12	Tn. A
13	Tn. A
14	Tn. A
15	Tn. M

PRE rTMS FMA UE					POST rTMS FMA UE (Hari ke 12)					POST rTMS FMA UE (Hari ke 30)					Delta H 0-12	Delta H 0-30
A./36	B./10	C./14	D./6	TOTAL MOTORIK	A./36	B./10	C./14	D./6	TOTAL MOTORIK	A./36	B./10	C./14	D./6	TOTAL MOTORIK		
24	5	9	4	42	36	10	14	6	66	36	10	14	6	66	24	24
4	0	7	0	11	5	10	14	0	29	5	10	14	0	29	18	18
7	5	1	0	13	17	0	4	10	21	17	0	4	10	21	8	8
21	5	0	0	26	36	10	9	5	60	36	10	9	5	60	34	34
28	5	0	3	36	27	10	8	6	51	27	10	8	6	51	15	15
33	5	14	5	57	36	10	14	6	66	36	10	14	6	66	9	9
32	10	14	6	62	36	10	14	6	66	36	10	14	6	66	4	4
23	5	7	3	38	31	5	12	5	53	31	5	12	5	53	15	15
32	9	14	4	59	36	10	14	5	65	36	10	14	5	65	6	6
18	5	2	0	25	30	5	7	0	42	30	5	7	0	42	17	17
31	5	14	5	55	36	10	14	6	66	36	10	14	6	66	11	11
21	5	0	3	29	36	10	9	5	60	36	10	9	5	60	31	31
4	5	7	0	16	5	10	14	3	31	5	10	14	3	31	15	15
28	5	2	3	38	30	10	8	6	54	30	10	8	6	54	16	16
26	5	9	4	44	36	10	14	6	66	36	10	14	6	66	22	22

KETERANGAN FMA-UE :

A UPPER EXTREMITY
B WRIST
C HAND
D COORDINATION/SPEED

Lampiran 6. Analisa Data

Crosstabs

Notes

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Comments		
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	Active Dataset	DataSet21
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	Split File	<none>
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
Syntax		CROSSTABS /TABLES=JK Klinis Merokok HT DM PJK BY Kelompok /FORMAT=AVALUE TABLES /STATISTICS=CHISQ /CELLS=COUNT COLUMN /COUNT ROUND CELL.
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	Elapsed Time	00:00:00.02
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	Cells Available	524245

[DataSet21] D:\Office\Statistics\Data 2 dr Jans.sav

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.000[a]	1	1.000		
Continuity Correction[b]	.000	1	1.000		
Likelihood Ratio	.000	1	1.000		
Fisher's Exact Test				1.000	.642
Linear-by-Linear Association	.000	1	1.000		
N of Valid Cases	30				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 7.00.

b. Computed only for a 2x2 table

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
JK * Kelompok	30	100.0%	0	0.0%	30	100.0%
Klinis * Kelompok	30	100.0%	0	0.0%	30	100.0%
Merokok * Kelompok	30	100.0%	0	0.0%	30	100.0%
HT * Kelompok	30	100.0%	0	0.0%	30	100.0%
DM * Kelompok	30	100.0%	0	0.0%	30	100.0%
PJK * Kelompok	30	100.0%	0	0.0%	30	100.0%

JK * Kelompok

Crosstab

			Kelompok		
			rTMS	CIMT	Total
JK	Laki-laki	Count	7	7	14
		% within Kelompok	46.7%	46.7%	46.7%
	Perempuan	Count	8	8	16
		% within Kelompok	53.3%	53.3%	53.3%
Total		Count	15	15	30
		% within Kelompok	100.0%	100.0%	100.0%

Klinis * Kelompok

Crosstab

			Kelompok		
			rTMS	CIMT	Total
Klinis	Hemiparese Dextra	Count	7	5	12
		% within Kelompok	46.7%	33.3%	40.0%
	Hemiparese Sinistra	Count	8	10	18
		% within Kelompok	53.3%	66.7%	60.0%
Total		Count	15	15	30
		% within Kelompok	100.0%	100.0%	100.0%

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.556[a]	1	.456		
Continuity Correction[b]	.139	1	.709		
Likelihood Ratio	.558	1	.455		
Fisher's Exact Test				.710	.355
Linear-by-Linear Association	.537	1	.464		
N of Valid Cases	30				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 6.00.

b. Computed only for a 2x2 table

Merokok * Kelompok

Crosstab

			Kelompok		
			rTMS	CIMT	Total
Merokok	Ya	Count	1	4	5
		% within Kelompok	6.7%	26.7%	16.7%
	Tidak	Count	14	11	25
		% within Kelompok	93.3%	73.3%	83.3%
		Count	15	15	30
		% within Kelompok	100.0%	100.0%	100.0%

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	2.160[a]	1	.142		
Continuity Correction[b]	.960	1	.327		
Likelihood Ratio	2.288	1	.130		
Fisher's Exact Test				.330	.165
Linear-by-Linear Association	2.088	1	.148		
N of Valid Cases	30				

a. 2 cells (50.0%) have expected count less than 5. The minimum expected count is 2.50.

b. Computed only for a 2x2 table

HT * Kelompok

Crosstab

			Kelompok		
			rTMS	CIMT	Total
HT	Ya	Count	13	15	28
		% within Kelompok	86.7%	100.0%	93.3%
	Tidak	Count	2	0	2
		% within Kelompok	13.3%	0.0%	6.7%
Total		Count	15	15	30
		% within Kelompok	100.0%	100.0%	100.0%

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	2.143[a]	1	.143		
Continuity Correction[b]	.536	1	.464		
Likelihood Ratio	2.916	1	.088		
Fisher's Exact Test				.483	.241
Linear-by-Linear Association	2.071	1	.150		
N of Valid Cases	30				

50.0%) have expected count less than 5. The minimum expected count is 1.00.

b. Computed only for a 2x2 table

DM * Kelompok

Crosstab

			Kelompok		
			rTMS	CIMT	Total
DM	Tidak	Count	15	15	30
		% within Kelompok	100.0%	100.0%	100.0%
Total		Count	15	15	30
		% within Kelompok	100.0%	100.0%	100.0%

Chi-Square Tests

	Value
Pearson Chi-Square	.[a]
N of Valid Cases	30

a. No statistics are computed because DM is a constant.

PJK * Kelompok

Crosstab

			Kelompok		
			rTMS	CIMT	Total
PJK	Ya	Count	0	1	1
		% within Kelompok	0.0%	6.7%	3.3%
	Tidak	Count	15	14	29
		% within Kelompok	100.0%	93.3%	96.7%
Total		Count	15	15	30
		% within Kelompok	100.0%	100.0%	100.0%

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	1.034[a]	1	.309		
Continuity Correction[b]	.000	1	1.000		
Likelihood Ratio	1.421	1	.233		
Fisher's Exact Test				1.000	.500
Linear-by-Linear Association	1.000	1	.317		
N of Valid Cases	30				

a. 2 cells (50.0%) have expected count less than 5. The minimum expected count is .50.

b. Computed only for a 2x2 table

```
MEANS TABLES=Usia Onset MMT H0 H12 H30 H0_H12 H0_H30 H12_H30 BY Kelompok
  /CELLS=MEAN STDDEV MEDIAN MIN MAX.
```

Means

Notes

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	Active Dataset	DataSet21
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Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.

ΩΩReport

Kelompok		Usia	Onset	MMT	H0	H12	H30	H0_H12	H0_H30	H12
rTMS	Mean	53.3333	22.4000	2.9333	36.7333	53.0667	53.0667	16.3333	16.3333	
	Std. Deviation	14.98888	19.51117	1.16292	16.75652	15.34585	15.34585	8.60786	8.60786	
	Median	59.0000	18.0000	3.0000	38.0000	60.0000	60.0000	15.0000	15.0000	
	Minimum	20.00	10.00	1.00	11.00	21.00	21.00	4.00	4.00	
	Maximum	70.00	90.00	4.00	62.00	66.00	66.00	34.00	34.00	
CIMT	Mean	55.8667	8.4667	3.8667	49.5333	52.2000	56.6667	2.6667	7.1333	
	Std. Deviation	8.38252	3.04412	.35187	7.40527	6.89928	7.25718	1.39728	1.99523	1
	Median	55.0000	8.0000	4.0000	50.0000	53.0000	57.0000	2.0000	7.0000	
	Minimum	42.00	7.00	3.00	31.00	34.00	35.00	1.00	4.00	
	Maximum	70.00	19.00	4.00	62.00	63.00	66.00	5.00	10.00	
Total	Mean	54.6000	15.4333	3.4000	43.1333	52.6333	54.8667	9.5000	11.7333	
	Std. Deviation	12.00172	15.44218	.96847	14.29669	11.69876	11.93584	9.22048	7.71891	2
	Median	56.0000	10.0000	4.0000	45.5000	53.0000	57.5000	5.0000	9.0000	
	Minimum	20.00	7.00	1.00	11.00	21.00	21.00	1.00	4.00	
	Maximum	70.00	90.00	4.00	62.00	66.00	66.00	34.00	34.00	

Syntax		MEANS TABLES=Usia Onset MMT H0 H12 H30 H0_H12 H0_H30 H12_H30 BY Kelompok /CELLS=MEAN STDDEV MEDIAN MIN MAX.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Case Processing Summary

Cases		
Included	Excluded	Total

	N	Percent	N	Percent	N	Percent
Usia * Kelompok	30	100.0%	0	0.0%	30	100.0%
Onset * Kelompok	30	100.0%	0	0.0%	30	100.0%
MMT * Kelompok	30	100.0%	0	0.0%	30	100.0%
H0 * Kelompok	30	100.0%	0	0.0%	30	100.0%
H12 * Kelompok	30	100.0%	0	0.0%	30	100.0%
H30 * Kelompok	30	100.0%	0	0.0%	30	100.0%
H0_H12 * Kelompok	30	100.0%	0	0.0%	30	100.0%
H0_H30 * Kelompok	30	100.0%	0	0.0%	30	100.0%
H12_H30 * Kelompok	30	100.0%	0	0.0%	30	100.0%

```
EXAMINE VARIABLES=Usia Onset MMT H0 H12 H30 H0_H12 H0_H30 H12_H30
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		28-JAN-2024 20:29:25
Comments		
Input	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.

Syntax		EXAMINE VARIABLES=Usia Onset MMT H0 H12 H30 H0_H12 H0_H30 H12_H30 /PLOT BOXPLOT STEMLEAF NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:02.06
	Elapsed Time	00:00:10.25

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Usia	30	100.0%	0	0.0%	30	100.0%
Onset	30	100.0%	0	0.0%	30	100.0%
MMT	30	100.0%	0	0.0%	30	100.0%
H0	30	100.0%	0	0.0%	30	100.0%
H12	30	100.0%	0	0.0%	30	100.0%
H30	30	100.0%	0	0.0%	30	100.0%
H0_H12	30	100.0%	0	0.0%	30	100.0%
H0_H30	30	100.0%	0	0.0%	30	100.0%
H12_H30	30	100.0%	0	0.0%	30	100.0%

Descriptives

			Statistic	Std. Error
Usia	Mean		54.6000	2.19120
	95% Confidence Interval for Mean	Lower Bound	50.1185	
		Upper Bound	59.0815	
	5% Trimmed Mean		55.4630	
	Median		56.0000	
	Variance		144.041	

	Std. Deviation		12.00172	
	Minimum		20.00	
	Maximum		70.00	
	Range		50.00	
	Interquartile Range		14.75	
	Skewness		-1.064	.427
	Kurtosis		1.305	.833
Onset	Mean		15.4333	2.81934
	95% Confidence Interval for Mean	Lower Bound	9.6671	
		Upper Bound	21.1995	
	5% Trimmed Mean		12.8704	
	Median		10.0000	
	Variance		238.461	
	Std. Deviation		15.44218	
	Minimum		7.00	
	Maximum		90.00	
	Range		83.00	
	Interquartile Range		11.25	
	Skewness		4.132	.427
	Kurtosis		19.807	.833
MMT	Mean		3.4000	.17682
	95% Confidence Interval for Mean	Lower Bound	3.0384	
		Upper Bound	3.7616	
	5% Trimmed Mean		3.5000	
	Median		4.0000	
	Variance		.938	
	Std. Deviation		.96847	
	Minimum		1.00	
	Maximum		4.00	
	Range		3.00	
	Interquartile Range		1.00	
	Skewness		-1.650	.427
	Kurtosis		1.775	.833
	Mean		43.1333	2.61021
	95% Confidence Interval for Mean	Lower Bound	37.7949	
		Upper Bound	48.4718	
	5% Trimmed Mean		43.8333	

	Median		45.5000	
	Variance		204.395	
	Std. Deviation		14.29669	
	Minimum		11.00	
	Maximum		62.00	
	Range		51.00	
	Interquartile Range		20.50	
	Skewness		-.822	.427
	Kurtosis		-.099	.833
H12	Mean		52.6333	2.13589
	95% Confidence Interval for Mean	Lower Bound	48.2649	
		Upper Bound	57.0017	
	5% Trimmed Mean		53.5000	
	Median		53.0000	
	Variance		136.861	
	Std. Deviation		11.69876	
	Minimum		21.00	
	Maximum		66.00	
	Range		45.00	
	Interquartile Range		13.00	
	Skewness		-1.080	.427
	Kurtosis		.906	.833
H30	Mean		54.8667	2.17918
	95% Confidence Interval for Mean	Lower Bound	50.4097	
		Upper Bound	59.3236	
	5% Trimmed Mean		55.9815	
	Median		57.5000	
	Variance		142.464	
	Std. Deviation		11.93584	
	Minimum		21.00	
	Maximum		66.00	
	Range		45.00	
	Interquartile Range		11.50	
	Skewness		-1.485	.427
	Kurtosis		1.657	.833
	Mean		9.5000	1.68342
		Lower Bound	6.0570	

	95% Confidence Interval for Mean	Upper Bound	12.9430	
	5% Trimmed Mean		8.6667	
	Median		5.0000	
	Variance		85.017	
	Std. Deviation		9.22048	
	Minimum		1.00	
	Maximum		34.00	
	Range		33.00	
	Interquartile Range		13.25	
	Skewness		1.221	.427
	Kurtosis		.751	.833
H0_H30	Mean		11.7333	1.40927
	95% Confidence Interval for Mean	Lower Bound	8.8510	
		Upper Bound	14.6156	
	5% Trimmed Mean		10.9815	
	Median		9.0000	
	Variance		59.582	
	Std. Deviation		7.71891	
	Minimum		4.00	
	Maximum		34.00	
	Range		30.00	
	Interquartile Range		8.50	
	Skewness		1.504	.427
	Kurtosis		1.918	.833
H12_H30	Mean		2.2333	.46654
	95% Confidence Interval for Mean	Lower Bound	1.2791	
		Upper Bound	3.1875	
	5% Trimmed Mean		2.0741	
	Median		.5000	
	Variance		6.530	
	Std. Deviation		2.55536	
	Minimum		.00	
	Maximum		8.00	
	Range		8.00	
	Interquartile Range		4.25	
	Skewness		.598	.427

Kurtosis	-1.048	.833

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Usia	.147	30	.098	.921	30	.029
Onset	.292	30	.000	.518	30	.000
MMT	.366	30	.000	.654	30	.000
H0	.158	30	.056	.923	30	.032
H12	.178	30	.016	.893	30	.006
H30	.206	30	.002	.818	30	.000
H0_H12	.221	30	.001	.832	30	.000
H0_H30	.222	30	.001	.832	30	.000
H12_H30	.309	30	.000	.800	30	.000

a. Lilliefors Significance Correction

Usia

```
Usia Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     1.00 Extremes    (=<20)
     2.00         3 .  13
      .00         3 .
     1.00         4 .  2
     4.00         4 .  5678
     3.00         5 .  014
     8.00         5 .  55566779
     5.00         6 .  11224
     3.00         6 .  579
     3.00         7 .  000

 Stem width:     10.00
 Each leaf:       1 case(s)
```

Onset

```
Onset Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    13.00        0 .  7777777888889
     5.00        1 .  00012
     6.00        1 .  568899
     4.00        2 .  0124
      .00        2 .
     1.00        3 .  0
     1.00 Extremes    (>=90)

 Stem width:     10.00
 Each leaf:        1 case(s)
```

MMT

```
MMT Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     3.00 Extremes    (=<1.0)
     1.00        2 .  0
      .00        2 .
     7.00        3 .  0000000
      .00        3 .
    19.00        4 .  0000000000000000000

 Stem width:      1.00
 Each leaf:        1 case(s)
```

H0

```
H0 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     3.00        1 .  136
     3.00        2 .  569
     4.00        3 .  1688
     8.00        4 .  24445688
    10.00        5 .  0122566789
     2.00        6 .  22

          dth:     10.00
          af:        1 case(s)
```

H12

H12 Stem-and-Leaf Plot

```
 Frequency    Stem &  Leaf

     2.00 Extremes    (=<29)
     2.00         3 .  14
      .00         3 .
     1.00         4 .  2
     3.00         4 .  678
     9.00         5 .  112233334
     3.00         5 .  678
     4.00         6 .  0003
     6.00         6 .  566666

 Stem width:     10.00
 Each leaf:        1 case(s)
```

H30

H30 Stem-and-Leaf Plot

```
 Frequency    Stem &  Leaf

     4.00 Extremes    (=<35)
     1.00         4 .  2
      .00         4 .
     6.00         5 .  123444
     6.00         5 .  556789
     6.00         6 .  001134
     7.00         6 .  5666666

 Stem width:     10.00
 Each leaf:        1 case(s)
```

H0_H12

H0_H12 Stem-and-Leaf Plot

```
 Frequency    Stem &  Leaf
    14.00         0 .  11122222234444
     5.00         0 .  55689
     1.00         1 .  1
     6.00         1 .  555678
     2.00         2 .  24
      .00         2 .
     2.00         3 .  14
 Stem width:     10.00
 Each leaf:        1 case(s)
```

H0_H30

H0_H30 Stem-and-Leaf Plot

```
 Frequency    Stem &  Leaf
     3.00         0 .  444
    14.00         0 .  55667778888999
     3.00         1 .  001
     6.00         1 .  555678
     2.00         2 .  24
        0 Extremes    (>=31)
        dth:     10.00
        af:        1 case(s)
```

H12_H30

```
H12_H30 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    15.00        0 .  000000000000000
     1.00        1 .  0
      .00        2 .
     3.00        3 .  000
     4.00        4 .  0000
     3.00        5 .  000
     3.00        6 .  000
      .00        7 .
     1.00        8 .  0

 Stem width:      1.00
 Each leaf:        1 case(s)

DATASET ACTIVATE DataSet21.
DATASET CLOSE DataSet20.
NPAR TESTS
  /M-W= Usia Onset MMT H0 H12 H30 H0_H12 H0_H30 H12_H30 BY Kelompok(1 2)
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		28-JAN-2024 20:30:07
Comments		
Input	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= Usia Onset MMT H0 H12 H30 H0_H12 H0_H30 H12_H30 BY Kelompok(1 2) /MISSING ANALYSIS.
	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00
	Number of Cases Allowed[a]	209715

a. Based on availability of workspace memory.

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Usia	rTMS	15	15.80	237.00
	CIMT	15	15.20	228.00
	Total	30		
Onset	rTMS	15	22.37	335.50
	CIMT	15	8.63	129.50
	Total	30		
MMT	rTMS	15	11.73	176.00
	CIMT	15	19.27	289.00
	Total	30		
H0	rTMS	15	11.90	178.50
	CIMT	15	19.10	286.50
	Total	30		
H12	rTMS	15	17.40	261.00
	CIMT	15	13.60	204.00
	Total	30		
H30	rTMS	15	15.57	233.50
	CIMT	15	15.43	231.50
	Total	30		
H0_H12	rTMS	15	22.77	341.50
	CIMT	15	8.23	123.50
	Total	30		
H0_H30	rTMS	15	20.80	312.00
	CIMT	15	10.20	153.00
	Total	30		
H12_H30	rTMS	15	8.00	120.00
	CIMT	15	23.00	345.00
	Total	30		

Test Statistics[a]

	Usia	Onset	MMT	H0	H12	H30	H0_H12	H0_H30	H12_H30
Mann-Whitney U	108.000	9.500	56.000	58.500	84.000	111.500	3.500	33.000	.000
Wilcoxon W	228.000	129.500	176.000	178.500	204.000	231.500	123.500	153.000	120.000
Z	-.187	-4.312	-2.737	-2.242	-1.187	-.042	-4.549	-3.308	-5.001
Asymp. Sig. (2-tailed)	.852	.000	.006	.025	.235	.967	.000	.001	.000
Exact Sig. [2*(1-tailed Sig.)]	.870[b]	.000[b]	.019[b]	.023[b]	.250[b]	.967[b]	.000[b]	.001[b]	.000[b]

a. Grouping Variable: Kelompok

b. Not corrected for ties.

```
USE ALL.
COMPUTE filter_$=(Kelompok = 1).
VARIABLE LABELS filter_$ 'Kelompok = 1 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
EXAMINE VARIABLES=H0 H12 H30
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		28-JAN-2024 20:30:33
Comments		
	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	Kelompok = 1 (FILTER)

	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	15
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=H0 H12 H30 /PLOT BOXPLOT STEMLEAF NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:00.62
	Elapsed Time	00:00:00.64

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
H0	15	100.0%	0	0.0%	15	100.0%
H12	15	100.0%	0	0.0%	15	100.0%
H30	15	100.0%	0	0.0%	15	100.0%

Descriptives

		Statistic	Std. Error
Mean		36.7333	4.32651
95% Confidence Interval for Mean	Lower Bound	27.4539	
	Upper Bound	46.0128	
5% Trimmed Mean		36.7593	

	Median		38.0000	
	Variance		280.781	
	Std. Deviation		16.75652	
	Minimum		11.00	
	Maximum		62.00	
	Range		51.00	
	Interquartile Range		30.00	
	Skewness		-.009	.580
	Kurtosis		-1.102	1.121
H12	Mean		53.0667	3.96228
	95% Confidence Interval for Mean	Lower Bound	44.5684	
		Upper Bound	61.5649	
	5% Trimmed Mean		54.1296	
	Median		60.0000	
	Variance		235.495	
	Std. Deviation		15.34585	
	Minimum		21.00	
	Maximum		66.00	
	Range		45.00	
	Interquartile Range		24.00	
	Skewness		-1.045	.580
	Kurtosis		-.183	1.121
H30	Mean		53.0667	3.96228
	95% Confidence Interval for Mean	Lower Bound	44.5684	
		Upper Bound	61.5649	
	5% Trimmed Mean		54.1296	
	Median		60.0000	
	Variance		235.495	
	Std. Deviation		15.34585	
	Minimum		21.00	
	Maximum		66.00	
	Range		45.00	
	Interquartile Range		24.00	
	Skewness		-1.045	.580
	Kurtosis		-.183	1.121

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H0	.129	15	.200*	.947	15	.473
H12	.208	15	.081	.820	15	.007
H30	.208	15	.081	.820	15	.007

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

H0

```
H0 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     3.00        1 .  136
     3.00        2 .  569
     3.00        3 .  688
     2.00        4 .  24
     3.00        5 .  579
     1.00        6 .  2

 Stem width:     10.00
 Each leaf:        1 case(s)
```

H12

```
H12 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     2.00        2 .  19
     1.00        3 .  1
     1.00        4 .  2
     3.00        5 .  134
     8.00        6 .  00566666

 Stem width:     10.00
 Each leaf:        1 case(s)
```

H30

```
H30 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     2.00        2 .  19
     1.00        3 .  1
     1.00        4 .  2
     3.00        5 .  134
     8.00        6 .  00566666

        dth:     10.00
        af:        1 case(s)
```

```
NPAR TESTS
  /FRIEDMAN=H0 H12 H30
  /MISSING LISTWISE.
```

NPar Tests

Notes

Output Created		28-JAN-2024 20:30:48
Comments		
Input	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	15
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for all tests are based on cases with no missing data for any variables used.
Syntax		NPAR TESTS /FRIEDMAN=H0 H12 H30 /MISSING LISTWISE.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00
	Number of Cases Allowed[a]	393216

a. Based on availability of workspace memory.

Friedman Test

Ranks

	Mean Rank
H0	1.00
H12	2.50
H30	2.50

Test Statistics[a]

N	15
Chi-Square	30.000
df	2
Asymp. Sig.	.000

a. Friedman Test

```
NPAR TESTS
  /WILCOXON=H0 H0 H12 WITH H12 H30 H30 (PAIRED)
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		28-JAN-2024 20:31:01
Comments		
Input	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	15
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.

Syntax		NPAR TESTS /WILCOXON=H0 H0 H12 WITH H12 H30 H30 (PAIRED) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02
	Number of Cases Allowed[a]	393216

a. Based on availability of workspace memory.

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
H12 - H0	Negative Ranks	0[a]	.00	.00
	Positive Ranks	15[b]	8.00	120.00
	Ties	0[c]		
	Total	15		
H30 - H0	Negative Ranks	0[d]	.00	.00
	Positive Ranks	15[e]	8.00	120.00
	Ties	0[f]		
	Total	15		
H30 - H12	Negative Ranks	0[g]	.00	.00
	Positive Ranks	0[h]	.00	.00
	Ties	15[i]		
	Total	15		

a. H12 < H0

b. H12 > H0

I0

I0

I0

0

g. H30 < H12

h. H30 > H12

i. H30 = H12

Test Statistics[a]

	H12 - H0	H30 - H0	H30 - H12
Z	-3.411[b]	-3.411[b]	.000[c]
Asymp. Sig. (2-tailed)	.001	.001	1.000

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. The sum of negative ranks equals the sum of positive ranks.

```
USE ALL.
COMPUTE filter_$=(Kelompok = 2).
VARIABLE LABELS filter_$ 'Kelompok = 2 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
EXAMINE VARIABLES=H0 H12 H30
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		28-JAN-2024 20:31:14
Comments		
Input	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	15
alue Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.

	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=H0 H12 H30 /PLOT BOXPLOT STEMLEAF NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:00.61
	Elapsed Time	00:00:00.66

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
H0	15	100.0%	0	0.0%	15	100.0%
H12	15	100.0%	0	0.0%	15	100.0%
H30	15	100.0%	0	0.0%	15	100.0%

Descriptives

			Statistic	Std. Error
H0	Mean		49.5333	1.91203
	95% Confidence Interval for Mean	Lower Bound	45.4324	
		Upper Bound	53.6342	
	5% Trimmed Mean		49.8704	
	Median		50.0000	
	Variance		54.838	
	Std. Deviation		7.40527	
	Minimum		31.00	
	Maximum		62.00	
	Range		31.00	

	Interquartile Range		11.00	
	Skewness		-.757	.580
	Kurtosis		1.833	1.121
H12	Mean		52.2000	1.78139
	95% Confidence Interval for Mean	Lower Bound	48.3793	
		Upper Bound	56.0207	
	5% Trimmed Mean		52.6111	
	Median		53.0000	
	Variance		47.600	
	Std. Deviation		6.89928	
	Minimum		34.00	
	Maximum		63.00	
	Range		29.00	
	Interquartile Range		9.00	
	Skewness		-1.101	.580
	Kurtosis		2.605	1.121
H30	Mean		56.6667	1.87380
	95% Confidence Interval for Mean	Lower Bound	52.6478	
		Upper Bound	60.6856	
	5% Trimmed Mean		57.3519	
	Median		57.0000	
	Variance		52.667	
	Std. Deviation		7.25718	
	Minimum		35.00	
	Maximum		66.00	
	Range		31.00	
	Interquartile Range		7.00	
	Skewness		-1.872	.580
	Kurtosis		5.493	1.121

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
	.161	15	.200*	.946	15	.461
	.164	15	.200*	.923	15	.217
	.223	15	.043	.830	15	.009

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

H0

```
H0 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     1.00 Extremes    (=<31)
     2.00        4 .  44
     4.00        4 .  5688
     4.00        5 .  0122
     3.00        5 .  668
     1.00        6 .  2

 Stem width:     10.00
 Each leaf:        1 case(s)
```

H12

```
H12 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     1.00 Extremes    (=<34)
     3.00        4 .  678
     6.00        5 .  122333
     3.00        5 .  678
     2.00        6 .  03

 Stem width:     10.00
 Each leaf:        1 case(s)
```

H30

```
H30 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     1.00 Extremes    (=<35)
     3.00        5 .  244
     6.00        5 .  556789
     4.00        6 .  1134
     1.00        6 .  6

 Stem width:     10.00
 Each leaf:        1 case(s)


NPAR TESTS
  /FRIEDMAN=H0 H12 H30
  /MISSING LISTWISE.
```

NPar Tests

Notes

Output Created		28-JAN-2024 20:31:20
Comments		
Input	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	15
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for all tests are based on cases with no missing data for any variables used.
Syntax		NPAR TESTS /FRIEDMAN=H0 H12 H30 /MISSING LISTWISE.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00
	Number of Cases Allowed[a]	393216

a. Based on availability of workspace memory.

Friedman Test

Ranks

	Mean Rank
H0	1.00
H12	2.00
	3.00

Test Statistics[a]

N	15
Chi-Square	30.000
df	2
Asymp. Sig.	.000

a. Friedman Test

```
NPAR TESTS
  /WILCOXON=H0 H0 H12 WITH H12 H30 H30 (PAIRED)
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		28-JAN-2024 20:31:22
Comments		
Input	Data	D:\Office\Statistics\Data 2 dr Jans.sav
	Active Dataset	DataSet21
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	15
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /WILCOXON=H0 H0 H12 WITH H12 H30 H30 (PAIRED) /MISSING ANALYSIS.

Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00
	Number of Cases Allowed[a]	393216

a. Based on availability of workspace memory.

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
H12 - H0	Negative Ranks	0[a]	.00	.00
	Positive Ranks	15[b]	8.00	120.00
	Ties	0[c]		
	Total	15		
H30 - H0	Negative Ranks	0[d]	.00	.00
	Positive Ranks	15[e]	8.00	120.00
	Ties	0[f]		
	Total	15		
H30 - H12	Negative Ranks	0[g]	.00	.00
	Positive Ranks	15[h]	8.00	120.00
	Ties	0[i]		
	Total	15		

a. H12 < H0

b. H12 > H0

c. H12 = H0

d. H30 < H0

e. H30 > H0

f. H30 = H0

g. H30 < H12

h. H30 > H12

i. H30 = H12

Test Statistics[a]

	H12 - H0	H30 - H0	H30 - H12
Z	-3.438[b]	-3.416[b]	-3.423[b]
Asymp. Sig. (2-tailed)	.001	.001	.001

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.