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LAMPIRAN

Lampiran 1. Formulir MNSI versi Bahasa Indonesia

MNSI VERSI BAHASA INDONESIA

Untuk Pasien

INSTRUMEN SKRINING NEUROPATI MICHIGAN

A. Riwayat Penyakit (Diisi oleh pasien yang menderita diabetes)

Dimohon untuk meluangkan waktu Anda selama beberapa menit untuk menjawab pertanyaan di bawah ini terkait rasa pada betis dan kaki Anda. Pilih jawaban ya atau tidak sesuai dengan yang biasa Anda rasakan. Terima kasih.

1. Apakah Anda merasa kebas/mati rasa pada betis dan/atau kaki? Ya Tidak
2. Apakah Anda pernah merasa nyeri seperti terbakar pada betis dan/atau kaki? Ya Tidak
3. Apakah kaki Anda terasa terlalu sensitif untuk disentuh? Ya Tidak
4. Apakah Anda mengalami kram otot pada betis dan/atau kaki? Ya Tidak
5. Apakah Anda merasa seperti tertusuk-tusuk pada betis dan/atau kaki? Ya Tidak
6. Apakah kulit Anda terasa sakit saat bersentuhan dengan selimut? Ya Tidak
7. Ketika Anda mandi, dapatkah Anda membedakan rasa air panas dan air dingin? Ya Tidak
8. Apakah Anda pernah mengalami luka terbuka pada kaki Anda? Ya Tidak
9. Apakah dokter Anda pernah mengatakan bahwa Anda terkena neuropati diabetes? Ya Tidak
10. Apakah seluruh tubuh Anda sering terasa lemas? Ya Tidak
11. Apakah gejala yang Anda alami memburuk pada malam hari? Ya Tidak
12. Apakah betis Anda terasa sakit saat berjalan? Ya Tidak
13. Apakah Anda dapat merasakan kaki Anda saat berjalan? Ya Tidak
14. Apakah kulit kaki Anda sangat kering dan pecah-pecah? Ya Tidak
15. Apakah Anda pernah diamputasi? Ya Tidak

Total: _____

INSTRUMEN SKRINING NEUROPATI MICHIGAN

B. Pemeriksaan Fisik (Diisi oleh petugas medis)

1. Penampakan kaki

| | Kanan | | Kiri |
|---|--|--|---|
| a. Normal | <input type="checkbox"/> 0 Ya <input type="checkbox"/> 1 Tidak | | Normal <input type="checkbox"/> 0 Ya <input type="checkbox"/> 1 Tidak |
| b. Jika tidak, silakan pilih yang sesuai: | | | |
| Deformitas | <input type="checkbox"/> | | Deformitas <input type="checkbox"/> |
| Kulit kering, kalus | <input type="checkbox"/> | | Kulit kering, kalus <input type="checkbox"/> |
| Infeksi | <input type="checkbox"/> | | Infeksi <input type="checkbox"/> |
| Fissura | <input type="checkbox"/> | | Fissura <input type="checkbox"/> |
| Lainnya | <input type="checkbox"/> | | Lainnya <input type="checkbox"/> |
| Sebutkan: | _____ | | Sebutkan: _____ |

| | Kanan | | | Kiri | | |
|--|---|---|---|---|---|---|
| 2. Ulkus | Tidak ada <input type="checkbox"/> 0 | Ada <input type="checkbox"/> 1 | | Tidak ada <input type="checkbox"/> 0 | Ada <input type="checkbox"/> 1 | |
| 3. Refleks pergelangan kaki | Ada <input type="checkbox"/> 0 | Ada/Penguatan <input type="checkbox"/> 0,5 | Tidak ada <input type="checkbox"/> 1 | Ada <input type="checkbox"/> 0 | Ada/Penguatan <input type="checkbox"/> 0,5 | Tidak ada <input type="checkbox"/> 1 |
| 4. Persepsi getaran pada ibu jari kaki | Ada <input type="checkbox"/> 0 | Berkurang <input type="checkbox"/> 0,5 | Tidak ada <input type="checkbox"/> 1 | Ada <input type="checkbox"/> 0 | Berkurang <input type="checkbox"/> 0,5 | Tidak ada <input type="checkbox"/> 1 |
| 5. Monofilamen | Normal <input type="checkbox"/> 0 | Berkurang <input type="checkbox"/> 0,5 | Tidak ada <input type="checkbox"/> 1 | Normal <input type="checkbox"/> 0 | Berkurang <input type="checkbox"/> 0,5 | Tidak ada <input type="checkbox"/> 1 |

Tanda tangan: _____

Total nilai: _____/10 poin

PANDUAN PENGISIAN MNSI VERSI BAHASA INDONESIA

MNSI VERSI BAHASA INDONESIA A

| Pertanyaan | Skor | |
|-------------------------------------|------------------------------------|-------|
| | Ya | Tidak |
| 4, 10 7, 13 | Tidak dimasukkan dalam perhitungan | |
| 1, 2, 3, 5, 6, 8, 9, 11, 12, 14, 15 | 0 | 1 |
| | 1 | 0 |

Skor MNSI versi Bahasa Indonesia A tidak digunakan dalam penentuan skor akhir

MNSI VERSI BAHASA INDONESIA B

Penampakan kaki

Skor 1 jika terdapat deformitas (termasuk *hallux valgus*, subluksasi sendi, sendi Charcot), kulit kering, kalus, infeksi, dan fisura

Ulkus

Skor 1 jika terdapat ulserasi

Refleks pergelangan kaki

Manuver Jendrassik dilakukan dengan menarik kedua tangan yang saling terkait pada hitungan ketiga bersamaan dengan saat pemeriksa mengetukkan palu refleks

| Hasil Pemeriksaan | Skor |
|---|------|
| Terdapat refleks tanpa manuver Jendrassik | 0 |
| Terdapat refleks dengan manuver Jendrassik | 0,5 |
| Tidak ada refleks yang muncul dengan manuver Jendrassik | 1 |

Persepsi getaran pada ibu jari kaki

Garpu tala 128 Hz diletakkan pada sendi interfalangeal ibu jari kaki. Jika merasakan getaran, pasien menunggu hingga getaran hilang. Pasien memberikan tanda jika getaran sudah hilang. Garpu tala tetap diletakkan di tempat semula hingga pemeriksa tidak merasakan getaran. Selisih waktu saat getaran hilang antara pasien dan pemeriksa diukur.

| Hasil Pemeriksaan | Skor |
|----------------------------------|------|
| Selisih waktu <10 detik | 0 |
| Selisih waktu ≥10 detik | 0,5 |
| Tidak ada getaran yang dirasakan | 1 |

Monofilamen

Monofilamen 10 gram diletakkan pada ibu jari kaki bagian dorsal, antara lipatan kuku dan sendi interfalangeal. Penekanan filamen dilakukan tegak lurus dalam waktu singkat (<1 detik) hingga membengkok. Pasien memberikan tanda bila merasakan tekanan. Pemeriksaan diulang hingga 10 kali.

| Hasil Pemeriksaan | Skor |
|------------------------|------|
| 8-10 respon benar | 0 |
| 1-7 respon benar | 0,5 |
| Tidak ada respon benar | 1 |

Interpretasi: MNSI versi Bahasa Indonesia B ≥2,5 = neuropati positif
MNSI versi Bahasa Indonesia B <2,5 = neuropati negatif

Lampiran 2. Data Karakteristik Subjek Penelitian

| Subjek Neuropati Diabetik | | | | | | | | | | | |
|----------------------------------|------|-------|----|-------------|-----------|--------------------------|-----------------------|-----------------|--------------------|--------------------------------------|-----|
| No | Nama | Umur | JK | Klasifikasi | Durasi DM | Riw. Penyakit | HbA1c | MNSI A | MNSI B | IMT | BDC |
| 1 | M | 67 | P | DM tipe 2 | 6 | (-) | 7,8 | 8 | 4,5 | 25,7 | 3 |
| 2 | R | 47 | L | DM tipe 2 | 12 | HT (+), dislipidemia (+) | 7,9 | 7 | 6 | 26,15 | 3 |
| 3 | M | 62 | L | DM tipe 2 | 10 | HT (+) | 10,8 | 8 | 7 | 23,46 | 4 |
| 4 | B | 52 | L | DM tipe 2 | 10 | (-) | 6,7 | 9 | 4 | 19,14 | 4 |
| 5 | M | 58 | P | DM tipe 2 | 10 | HT (+), dislipidemia (+) | 9,8 | 3 | 6 | 27,89 | 3 |
| 6 | H | 58 | P | DM tipe 2 | 11 | HT (-), dislipidemia (+) | 11,3 | 5 | 7,5 | 22,47 | 4 |
| | | 57,33 | | | 9,83 | | 9,05 | 6,67 | 5,83 | 24,13 | 3 |
| Subjek Normal | | | | | | | | | | | |
| No | Nama | Umur | JK | IMT | Riw. DM | Riw. Hipertensi | Riw. penyakit jantung | Riw. Ggn ginjal | Riw. Konsumsi Obat | Riw. konsumsi kopi (12 jam terakhir) | |
| 1 | N | 46 | P | 32 | (-) | (-) | (-) | (-) | (-) | (-) | |
| 2 | D | 40 | L | 22,83 | (-) | (-) | (-) | (-) | (-) | (-) | |
| 3 | F | 62 | L | 19,35 | (-) | (-) | (-) | (-) | (-) | (-) | |
| 4 | W | 52 | L | 23,1 | (-) | (-) | (-) | (-) | (-) | (-) | |
| 5 | M | 44 | L | 24,9 | (-) | (-) | (-) | (-) | (-) | (-) | |
| 6 | H | 50 | P | 26,3 | (-) | (-) | (-) | (-) | (-) | (-) | |
| 7 | G | 44 | L | 23,22 | (-) | (-) | (-) | (-) | (-) | (-) | |

| Kontrol Negatif | | | | | |
|-----------------|------|------|----|---|--|
| No | Nama | Umur | JK | Klasifikasi Sampel | Hasil MRI |
| 1 | E | 29 | P | Paraparesis UMN+ Inkontinensia Urin ec Vertebral Bone Metastase | Gambaran tumor metastasis ke tulang |
| 2 | N | 52 | L | Paraparesis UMN+ Retensi Urin ec Burst Fracture Vertebral CV Th 11-12 | Burst fracture CV Th12 disertai destruksi pedicle dengan fragmen fraktur retropulsi yang menekan medula spinalis dan spondylolistesis CV Th11 terhadap Th12 |
| 3 | R | 29 | P | Paraparesis UMN+ Inkotinensia Urin ec Shwannoma spinal | Lesi intradural extramedular pada CV T1-T2 yang mendesak dan menyempitkan spinal cord di posterior menyebabkan moderate stenosis suspek spinal schwannoma DD/ meningioma |
| 4 | M | 49 | L | Paraparesis UMN+ Retensio Urin ec Vertebral Bone Metastase | Lesi heterointens regio colli CV C5-C6 dan C6-Th1 yang mendesak medula spinalis level tsb +Lesi kistik CV L1,L3, dan S2 gambaran metastasis tumor ke tulang |
| 5 | J | 22 | L | Paraparesis UMN + inkontinensia urin/alvi ec tumor intramedullary intradural | Myelitis transversa |

Lampiran 3. Data Hasil Penelitian

Subjek Normal

| Ny N (46 thn) (Normal) (24/11) | | | | | | |
|---------------------------------------|-------------|-----------------|----------------|----------------|----------------|----------------|
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 263 | 13 | 16 | 22 | 40 | 127 |
| 10 | 266 | 10 | 19 | 16 | 28 | 92 |
| 20 | 267 | 9 | 13 | 19 | 28 | 92 |
| 30 | 271 | 8 | 13 | 13 | 23 | 80 |
| 40 | 273 | 8 | 13 | 13 | 23 | 78 |
| 50 | 276 | 8 | 13 | 13 | 23 | 78 |
| 60 | 277 | 9 | 13 | 13 | 23 | 78 |
| | | | | | | 89,28571429 |
| Tn G (44 thn) (Normal) (28/11) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 305 | 9 | 15 | 25 | 45 | 79 |
| 10 | 304 | 8 | 13 | 23 | 41 | 74 |
| 20 | 303 | 8 | 13 | 24 | 41 | 73 |
| 30 | 302 | 8 | 14 | 24 | 44 | 81 |
| 40 | 302 | 8 | 13 | 23 | 39 | 71 |
| 50 | 302 | 8 | 12 | 20 | 38 | 67 |
| | | | | | | 74,16666667 |
| Tn D (40 thn) (Normal) (12/11) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 292 | 8 | 14 | 21 | 35 | 61 |
| 10 | 294 | 10 | 15 | 24 | 40 | 69 |
| 20 | 301 | 13 | 18 | 29 | 49 | 84 |
| 30 | 303 | 9 | 15 | 24 | 42 | 74 |
| 40 | 305 | 11 | 16 | 28 | 47 | 83 |
| 50 | 306 | 9 | 13 | 18 | 32 | 59 |
| 60 | 306 | 9 | 15 | 22 | 42 | 68 |
| | | | | | | 71,14285714 |
| Tn F (62 thn) (Normal) (8/11) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 294 | 14 | 21 | 32 | 51 | 82 |
| 10 | 301 | 14 | 21 | 33 | 54 | 89 |
| 20 | 303 | 30 | 35 | 47 | 67 | 106 |
| 30 | 304 | 22 | 29 | 42 | 63 | 105 |
| 40 | 304 | 21 | 28 | 39 | 61 | 100 |
| 50 | 305 | 24 | 29 | 41 | 64 | 105 |
| 60 | 305 | 16 | 25 | 41 | 68 | 114 |

| | | | | | | | 100,1428571 |
|---------------------------------------|-------------|-----------------|----------------|----------------|----------------|----------------|--------------------|
| Tn W (52 thn) (Normal) (28/11) | | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) | |
| 0 | 261 | 5 | 7 | 13 | 24 | 50 | |
| 10 | 283 | 4 | 7 | 13 | 25 | 49 | |
| 20 | 292 | 6 | 6 | 11 | 23 | 43 | |
| 30 | 299 | 6 | 6 | 10 | 18 | 37 | |
| 40 | 304 | 4 | 5 | 9 | 19 | 38 | |
| 50 | 309 | 4 | 5 | 9 | 19 | 39 | |
| | | | | | | | 42,66666667 |
| Tn M (44 thn) (Normal) (28/11) | | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) | |
| 0 | 312 | 23 | 35 | 55 | 90 | 151 | |
| 10 | 313 | 9 | 13 | 22 | 37 | 66 | |
| 20 | 314 | 9 | 14 | 23 | 39 | 68 | |
| 30 | 314 | 12 | 18 | 29 | 48 | 80 | |
| 40 | 312 | 9 | 13 | 21 | 35 | 59 | |
| 50 | 310 | 17 | 27 | 46 | 80 | 139 | |
| | | | | | | | 93,83333333 |
| Ny H (50 thn) (Normal) (28/11) | | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) | |
| 0 | 313 | 21 | 37 | 66 | 123 | 227 | |
| 10 | 312 | 19 | 33 | 60 | 109 | 201 | |
| 20 | 309 | 23 | 41 | 73 | 133 | 245 | |
| 30 | 307 | 20 | 35 | 64 | 116 | 215 | |
| 40 | 306 | 20 | 36 | 65 | 120 | 222 | |
| 50 | 306 | 19 | 34 | 62 | 114 | 212 | |
| 60 | 305 | 26 | 47 | 86 | 158 | 296 | |
| | | | | | | | 231,1428571 |

Subjek Neuropati Diabetik

| Ny M(67 thn) (DM tipe 2 + Painful Diabetic Neuropathy) (7/12) | | | | | | | |
|--|-------------|-----------------|----------------|----------------|----------------|----------------|-------|
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) | |
| 0 | 246 | 4 | 7 | 13 | 24 | 52 | |
| 10 | 255 | 21 | 32 | 32 | 29 | 52 | |
| 20 | 256 | 21 | 17 | 26 | 27 | 47 | |
| 30 | 257 | 11 | 15 | 20 | 33 | 62 | |
| | | | | | | | 53,25 |
| Tn R (47 thn) (DM tipe 2) (22/12) | | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) | |

| | | | | | | |
|--|-------------|-----------------|----------------|----------------|----------------|----------------|
| 0 | 280 | 16 | 25 | 20 | 30 | 53 |
| 10 | 284 | 14 | 15 | 22 | 33 | 58 |
| 20 | 286 | 16 | 18 | 24 | 36 | 65 |
| 30 | 287 | 18 | 22 | 35 | 53 | 92 |
| | | | | | | 67 |
| Ny H (58 thn) (DM tipe 2) (14/12) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 260 | 7 | 12 | 20 | 35 | 63 |
| 10 | 275 | 12 | 16 | 25 | 40 | 70 |
| 20 | 281 | 11 | 17 | 26 | 44 | 75 |
| | | | | | | 69,33333333 |
| Tn B (52 thn) (DM tipe 2) (2/12) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 250 | 10 | 12 | 17 | 31 | 56 |
| 10 | 262 | 13 | 15 | 21 | 34 | 60 |
| 20 | 269 | 11 | 13 | 20 | 35 | 63 |
| 30 | 273 | 10 | 14 | 22 | 38 | 69 |
| | | | | | | 62 |
| Tn M (62 thn) (DM tipe 2) (16/12) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 274 | 6 | 7 | 13 | 24 | 48 |
| 10 | 287 | 7 | 10 | 17 | 30 | 55 |
| 20 | 291 | 7 | 11 | 19 | 33 | 60 |
| 30 | 293 | 6 | 10 | 16 | 30 | 55 |
| | | | | | | 54,5 |
| Ny M (58 thn) (DM tipe 2) (19/12) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 260 | 6 | 10 | 17 | 31 | 57 |
| 10 | 273 | 11 | 14 | 23 | 42 | 77 |
| 20 | 277 | 9 | 15 | 25 | 47 | 82 |
| 30 | 276 | 10 | 16 | 29 | 51 | 92 |
| | | | | | | 77 |

Kontrol Negatif

| Ny (29 thn) (Paraparese UMN ec Bone metastasis) (10/11) | | | | | | |
|--|-------------|-----------------|----------------|----------------|----------------|----------------|
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 301 | 4 | 7 | 12 | 24 | 48 |
| 10 | 309 | 4 | 7 | 13 | 22 | 45 |
| 20 | 327 | 4 | 16 | 8 | 18 | 38 |

| | | | | | | |
|--|-------------|-----------------|----------------|----------------|----------------|----------------|
| 30 | 332 | 4 | 8 | 9 | 22 | 28 |
| 40 | 337 | 4 | 5 | 13 | 13 | 34 |
| 50 | 338 | 4 | 9 | 8 | 19 | 24 |
| 60 | 340 | 4 | 4 | 10 | 19 | 27 |
| | | | | | | 34,85714286 |
| Tn (52 thn) (Paraparese UMN ec Fraktur CV Th11-12) (11/11) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 286 | 4 | 7 | 12 | 24 | 49 |
| 10 | 290 | 5 | 7 | 13 | 24 | 43 |
| 20 | 295 | 6 | 8 | 13 | 24 | 46 |
| 30 | 300 | 4 | 6 | 12 | 20 | 37 |
| 40 | 308 | 4 | 6 | 9 | 22 | 40 |
| 50 | 312 | 6 | 6 | 8 | 19 | 32 |
| | | | | | | 41,16666667 |
| Ny R (29 thn) (Paraparese UMN ec Tumor intradural extramedular) (10/11) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 288 | 4 | 7 | 13 | 24 | 48 |
| 10 | 301 | 5 | 9 | 15 | 27 | 52 |
| 20 | 312 | 6 | 10 | 17 | 30 | 58 |
| 30 | 319 | 7 | 10 | 18 | 31 | 57 |
| 40 | 325 | 8 | 12 | 20 | 35 | 63 |
| 50 | 325 | 9 | 12 | 19 | 34 | 61 |
| 60 | 328 | 9 | 14 | 22 | 38 | 68 |
| | | | | | | 58,14285714 |
| Tn J (22 thn)/1002602 (Paraparese UMN ec Myelitis Transversa) (18/12) | | | | | | |
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 276 | 11 | 7 | 12 | 23 | 46 |
| 10 | 307 | 11 | 10 | 27 | 32 | 53 |
| 20 | 333 | 9 | 14 | 22 | 37 | 65 |
| 30 | 348 | 9 | 16 | 25 | 45 | 74 |
| 40 | 348 | 11 | 17 | 25 | 43 | 75 |
| 50 | 359 | 11 | 20 | 31 | 49 | 84 |
| | | | | | | 66,16666667 |

| M (49 thn)/1001467 (Paraprese UMN ec Bone metastasis) (3/11) | | | | | | |
|---|-------------|-----------------|----------------|----------------|----------------|----------------|
| Time | temperature | data_3E[500](6) | data_3E[1k](6) | data_3E[2k](6) | data_3E[4k](6) | data_3E[8k](6) |
| 0 | 298 | 9 | 10 | 14 | 23 | 45 |
| 10 | 307 | 17 | 14 | 16 | 25 | 45 |
| 20 | 309 | 5 | 13 | 18 | 24 | 40 |
| 30 | 310 | 6 | 8 | 15 | 27 | 50 |
| 40 | 309 | 6 | 9 | 19 | 32 | 59 |
| 50 | 311 | 5 | 9 | 17 | 31 | 58 |
| 60 | 310 | 9 | 14 | 25 | 44 | 77 |
| | | | | | | 53,42857143 |

Lampiran 4. Hasil Optimisasi Frekuensi

| Ordinary one-way ANOVA | | |
|------------------------|---|-----------------------|
| ANOVA results | | |
| 1 | Table Analyzed | Patch_3E(500 Hz)6_Eng |
| 2 | Data sets analyzed | A-C |
| 3 | | |
| 4 | ANOVA summary | |
| 5 | F | 24.55 |
| 6 | P value | <0.0001 |
| 7 | P value summary | **** |
| 8 | Significant diff. among means (P < 0.05)? | Yes |
| 9 | R squared | 0.7542 |

| Ordinary one-way ANOVA | | |
|------------------------|---|-------------------|
| ANOVA results | | |
| 1 | Table Analyzed | Patch_3E(1K)6_Eng |
| 2 | Data sets analyzed | A-C |
| 3 | | |
| 4 | ANOVA summary | |
| 5 | F | 4.626 |
| 6 | P value | 0.0348 |
| 7 | P value summary | * |
| 8 | Significant diff. among means (P < 0.05)? | Yes |
| 9 | R squared | 0.4569 |

| Ordinary one-way ANOVA | | |
|------------------------|---|-------------------|
| ANOVA results | | |
| 1 | Table Analyzed | Patch_3E(2K)6_Eng |
| 2 | Data sets analyzed | A-C |
| 3 | | |
| 4 | ANOVA summary | |
| 5 | F | 6.189 |
| 6 | P value | 0.0158 |
| 7 | P value summary | * |
| 8 | Significant diff. among means (P < 0.05)? | Yes |
| 9 | R squared | 0.5295 |

| Ordinary one-way ANOVA | | |
|------------------------|---|--------------------|
| ANOVA results | | |
| 1 | Table Analyzed | Patch_3E (4K)6_Eng |
| 2 | Data sets analyzed | A-C |
| 3 | | |
| 4 | ANOVA summary | |
| 5 | F | 7.421 |
| 6 | P value | 0.0091 |
| 7 | P value summary | ** |
| 8 | Significant diff. among means (P < 0.05)? | Yes |
| 9 | R squared | 0.5743 |

| Ordinary one-way ANOVA | | |
|------------------------|---|-------------------|
| ANOVA results | | |
| 1 | Table Analyzed | Patch_3E(8K)6_Eng |
| 2 | Data sets analyzed | A-C |
| 3 | | |
| 4 | ANOVA summary | |
| 5 | F | 62.10 |
| 6 | P value | <0.0001 |
| 7 | P value summary | **** |
| 8 | Significant diff. among means (P < 0.05)? | Yes |
| 9 | R squared | 0.9324 |

Lampiran 5. Hasil Tukey's Post-Hoc

- Data 3E(500 Hz)(6)

| 5 | Tukey's multiple comparisons test | Summary | Adjusted P Value | | | |
|----|---|-------------|------------------|-----|-------|----|
| 6 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | * | 0.0198 | A-B | | |
| 7 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | ** | 0.0018 | A-C | | |
| 8 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | **** | <0.0001 | B-C | | |
| 9 | | | | | | |
| 10 | Test details | SE of diff. | n1 | n2 | q | DF |
| 11 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | 1.146 | 7 | 7 | 4.311 | 16 |
| 12 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | 1.255 | 7 | 5 | 5.971 | 16 |
| 13 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | 1.255 | 7 | 5 | 9.906 | 16 |

- Data 3E(1K Hz)(6)

| 5 | Tukey's multiple comparisons test | Summary | Adjusted P Value | | | |
|----|---|-------------|------------------|-----|-------|----|
| 6 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | ns | 0.2279 | A-B | | |
| 7 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | ns | 0.5264 | A-C | | |
| 8 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | * | 0.0311 | B-C | | |
| 9 | | | | | | |
| 10 | Test details | SE of diff. | n1 | n2 | q | DF |
| 11 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | 2.837 | 4 | 6 | 2.488 | 11 |
| 12 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | 3.108 | 4 | 4 | 1.574 | 11 |
| 13 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | 2.837 | 6 | 4 | 4.212 | 11 |

- Data 3E(2K Hz)(6)

| 5 | Tukey's multiple comparisons test | | | | | |
|----|---|--|--------|--|----|--|
| 6 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | | | | | |
| 7 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | | | | | |
| 8 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | | | | | |
| 9 | | | | | | |
| 10 | Test details | | q | | DF | |
| 11 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | | 4.022 | | 11 | |
| 12 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | | 0.2476 | | 11 | |
| 13 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | | 4.293 | | 11 | |

- Data 3E(4K Hz)(6)

| 5 | Tukey's multiple comparisons test | Adjusted P Value | | | |
|----|---|------------------|-----|--------|----|
| 6 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | | A-B | | |
| 7 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | | A-C | | |
| 8 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | | B-C | | |
| 9 | | | | | |
| 10 | Test details | | n2 | q | DF |
| 11 | Normal Subject (n = 7) vs. Impaired Sweat Function (n=5) | | 6 | 4.818 | 11 |
| 12 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 5) | | 4 | 0.5110 | 11 |
| 13 | Impaired Sweat Function (n=5) vs. DPN moderate-severe (n = 5) | | 4 | 4.259 | 11 |

- Data 3E(8K Hz)(6)

| 5 | Šidák's multiple comparisons test | Adjusted P Value | | | |
|----|--|------------------|-----|-------|----|
| 6 | Normal Subject (n = 7) vs. Column B | | A-B | | |
| 7 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 6) | | A-C | | |
| 8 | Column B vs. DPN moderate-severe (n = 6) | | B-C | | |
| 9 | | | | | |
| 10 | Test details | | n2 | t | DF |
| 11 | Normal Subject (n = 7) vs. Column B | | 4 | 10.87 | 9 |
| 12 | Normal Subject (n = 7) vs. DPN moderate-severe (n = 6) | | 4 | 7.567 | 9 |
| 13 | Column B vs. DPN moderate-severe (n = 6) | | 4 | 3.302 | 9 |

Lampiran 6. Hasil Perbandingan Normal, Kontrol Negatif, dan Neuropati Diabetik

- Baseline

| Ordinary one-way ANOVA Multiple comparisons | | | | | | | |
|--|--|-------------------|---------------------------|-------------------------|--------------------|-------------------------|-----------|
| 1 | Number of families | 1 | | | | | |
| 2 | Number of comparisons per family | 3 | | | | | |
| 3 | Alpha | 0.05 | | | | | |
| 4 | | | | | | | |
| 5 | Tukey's multiple comparisons test | Mean Diff. | 95.00% CI of diff. | Below threshold? | Summary | Adjusted P Value | |
| 6 | Normal vs. Neuropati Diabetik | 56.17 | -1.080 to 113.4 | No | ns | 0.0548 | A-B |
| 7 | Normal vs. Kontrol Negatif | 63.80 | 3.549 to 124.1 | Yes | * | 0.0373 | A-C |
| 8 | Neuropati Diabetik vs. Kontrol Negatif | 7.633 | -54.67 to 69.94 | No | ns | 0.9459 | B-C |
| 9 | | | | | | | |
| 10 | Test details | Mean 1 | Mean 2 | Mean Diff. | SE of diff. | n1 | n2 |
| 11 | Normal vs. Neuropati Diabetik | 111.0 | 54.83 | 56.17 | 22.04 | 7 | 6 |
| 12 | Normal vs. Kontrol Negatif | 111.0 | 47.20 | 63.80 | 23.20 | 7 | 5 |
| 13 | Neuropati Diabetik vs. Kontrol Negatif | 54.83 | 47.20 | 7.633 | 23.99 | 6 | 5 |

- 10 menit

| Ordinary one-way ANOVA Multiple comparisons | | | | | | | |
|--|--|-------------------|---------------------------|-------------------------|--------------------|-------------------------|-----------|
| 1 | Number of families | 1 | | | | | |
| 2 | Number of comparisons per family | 3 | | | | | |
| 3 | Alpha | 0.05 | | | | | |
| 4 | | | | | | | |
| 5 | Tukey's multiple comparisons test | Mean Diff. | 95.00% CI of diff. | Below threshold? | Summary | Adjusted P Value | |
| 6 | Normal vs. Neuropati Diabetik | 29.43 | -17.48 to 76.34 | No | ns | 0.2642 | A-B |
| 7 | Normal vs. Kontrol Negatif | 43.83 | -5.544 to 93.20 | No | ns | 0.0858 | A-C |
| 8 | Neuropati Diabetik vs. Kontrol Negatif | 14.40 | -36.66 to 65.46 | No | ns | 0.7484 | B-C |
| 9 | | | | | | | |
| 10 | Test details | Mean 1 | Mean 2 | Mean Diff. | SE of diff. | n1 | n2 |
| 11 | Normal vs. Neuropati Diabetik | 91.43 | 62.00 | 29.43 | 18.06 | 7 | 6 |
| 12 | Normal vs. Kontrol Negatif | 91.43 | 47.60 | 43.83 | 19.01 | 7 | 5 |
| 13 | Neuropati Diabetik vs. Kontrol Negatif | 62.00 | 47.60 | 14.40 | 19.66 | 6 | 5 |

- 20 menit

| Ordinary one-way ANOVA Multiple comparisons | | | | | | | |
|--|--|-------------------|---------------------------|-------------------------|--------------------|-------------------------|-----------|
| 1 | Number of families | 1 | | | | | |
| 2 | Number of comparisons per family | 3 | | | | | |
| 3 | Alpha | 0.05 | | | | | |
| 4 | | | | | | | |
| 5 | Tukey's multiple comparisons test | Mean Diff. | 95.00% CI of diff. | Below threshold? | Summary | Adjusted P Value | |
| 6 | Normal vs. Neuropati Diabetik | 36.24 | -25.81 to 98.29 | No | ns | 0.3112 | A-B |
| 7 | Normal vs. Kontrol Negatif | 52.17 | -13.13 to 117.5 | No | ns | 0.1288 | A-C |
| 8 | Neuropati Diabetik vs. Kontrol Negatif | 15.93 | -51.60 to 83.47 | No | ns | 0.8154 | B-C |
| 9 | | | | | | | |
| 10 | Test details | Mean 1 | Mean 2 | Mean Diff. | SE of diff. | n1 | n2 |
| 11 | Normal vs. Neuropati Diabetik | 101.6 | 65.33 | 36.24 | 23.89 | 7 | 6 |
| 12 | Normal vs. Kontrol Negatif | 101.6 | 49.40 | 52.17 | 25.14 | 7 | 5 |
| 13 | Neuropati Diabetik vs. Kontrol Negatif | 65.33 | 49.40 | 15.93 | 26.00 | 6 | 5 |

- 30 menit

| Ordinary one-way ANOVA Multiple comparisons | | | | | | | |
|--|--|-------------------|---------------------------|-------------------------|--------------------|-------------------------|-----------|
| 1 | Number of families | 1 | | | | | |
| 2 | Number of comparisons per family | 3 | | | | | |
| 3 | Alpha | 0.05 | | | | | |
| 4 | | | | | | | |
| 5 | Tukey's multiple comparisons test | Mean Diff. | 95.00% CI of diff. | Below threshold? | Summary | Adjusted P Value | |
| 6 | Normal vs. Neuropati Diabetik | 22.00 | -37.91 to 81.91 | No | ns | 0.6123 | A-B |
| 7 | Normal vs. Kontrol Negatif | 46.80 | -13.11 to 106.7 | No | ns | 0.1381 | A-C |
| 8 | Neuropati Diabetik vs. Kontrol Negatif | 24.80 | -39.91 to 89.51 | No | ns | 0.5870 | B-C |
| 9 | | | | | | | |
| 10 | Test details | Mean 1 | Mean 2 | Mean Diff. | SE of diff. | n1 | n2 |
| 11 | Normal vs. Neuropati Diabetik | 96.00 | 74.00 | 22.00 | 22.89 | 7 | 5 |
| 12 | Normal vs. Kontrol Negatif | 96.00 | 49.20 | 46.80 | 22.89 | 7 | 5 |
| 13 | Neuropati Diabetik vs. Kontrol Negatif | 74.00 | 49.20 | 24.80 | 24.73 | 5 | 5 |

Lampiran 7. ROC dari Sweat Patch berdasarkan waktu pengukuran

- ROC pada Baseline

| ROC Area | | Sensitivity & Specificity | | | | | |
|----------|--------------------------|---------------------------|--------|-------------------|--------|-------------------|-------|
| | | Sensitivity% | 95% CI | Specificity% | 95% CI | Likelihood ratio | |
| 1 | Area under the ROC curve | < 49.00 | 16.67 | 0.8549% to 56.35% | 100.0 | 64.57% to 100.0% | |
| 2 | Area | < 51.00 | 16.67 | 0.8549% to 56.35% | 85.71 | 48.69% to 99.27% | 1.167 |
| 3 | Std. Error | < 52.50 | 33.33 | 5.923% to 70.00% | 85.71 | 48.69% to 99.27% | 2.333 |
| 4 | 95% confidence interval | < 54.50 | 50.00 | 18.76% to 81.24% | 85.71 | 48.69% to 99.27% | 3.500 |
| 5 | P value | < 56.50 | 66.67 | 30.00% to 94.08% | 85.71 | 48.69% to 99.27% | 4.667 |
| | | < 59.00 | 83.33 | 43.65% to 99.15% | 85.71 | 48.69% to 99.27% | 5.833 |
| | | < 62.00 | 83.33 | 43.65% to 99.15% | 71.43 | 35.89% to 94.92% | 2.917 |
| | | < 71.00 | 100.0 | 60.97% to 100.0% | 71.43 | 35.89% to 94.92% | 3.500 |
| | | < 80.50 | 100.0 | 60.97% to 100.0% | 57.14 | 25.05% to 84.18% | 2.333 |
| | | < 104.5 | 100.0 | 60.97% to 100.0% | 42.86 | 15.82% to 74.95% | 1.750 |
| | | < 139.0 | 100.0 | 60.97% to 100.0% | 28.57 | 5.077% to 64.11% | 1.400 |
| | | < 189.0 | 100.0 | 60.97% to 100.0% | 14.29 | 0.7328% to 51.31% | 1.167 |
| 7 | Data | | | | | | |
| 8 | Controls (Normal) | 7 | | | | | |
| 9 | Patients (DPN) | 6 | | | | | |

- ROC pada 10 menit

| ROC Area | | Sensitivity & Specificity | | | | | |
|----------|--------------------------|---------------------------|--------|-------------------|--------|-------------------|-------|
| | | Sensitivity% | 95% CI | Specificity% | 95% CI | Likelihood ratio | |
| 1 | Area under the ROC curve | < 50.50 | 0.000 | 0.000% to 39.03% | 85.71 | 48.69% to 99.27% | 0.000 |
| 2 | Area | < 53.50 | 16.67 | 0.8549% to 56.35% | 85.71 | 48.69% to 99.27% | 1.167 |
| 3 | Std. Error | < 56.50 | 33.33 | 5.923% to 70.00% | 85.71 | 48.69% to 99.27% | 2.333 |
| 4 | 95% confidence interval | < 59.00 | 50.00 | 18.76% to 81.24% | 85.71 | 48.69% to 99.27% | 3.500 |
| 5 | P value | < 63.00 | 66.67 | 30.00% to 94.08% | 85.71 | 48.69% to 99.27% | 4.667 |
| | | < 67.50 | 66.67 | 30.00% to 94.08% | 71.43 | 35.89% to 94.92% | 2.333 |
| | | < 69.50 | 66.67 | 30.00% to 94.08% | 57.14 | 25.05% to 84.18% | 1.556 |
| | | < 72.00 | 83.33 | 43.65% to 99.15% | 57.14 | 25.05% to 84.18% | 1.944 |
| | | < 75.50 | 83.33 | 43.65% to 99.15% | 42.86 | 15.82% to 74.95% | 1.458 |
| | | < 83.00 | 100.0 | 60.97% to 100.0% | 42.86 | 15.82% to 74.95% | 1.750 |
| | | < 90.50 | 100.0 | 60.97% to 100.0% | 28.57 | 5.077% to 64.11% | 1.400 |
| | | < 146.5 | 100.0 | 60.97% to 100.0% | 14.29 | 0.7328% to 51.31% | 1.167 |
| 7 | Data | | | | | | |
| 8 | Controls (Normal) | 7 | | | | | |
| 9 | Patients (DPN) | 6 | | | | | |

- ROC pada 20 menit

| ROC Area | | Sensitivity & Specificity | | | | | |
|----------|--------------------------|---------------------------|--------|-------------------|--------|-------------------|-------|
| | | Sensitivity% | 95% CI | Specificity% | 95% CI | Likelihood ratio | |
| 1 | Area under the ROC curve | < 45.00 | 0.000 | 0.000% to 39.03% | 85.71 | 48.69% to 99.27% | 0.000 |
| 2 | Area | < 53.50 | 16.67 | 0.8549% to 56.35% | 85.71 | 48.69% to 99.27% | 1.167 |
| 3 | Std. Error | < 61.50 | 33.33 | 5.923% to 70.00% | 85.71 | 48.69% to 99.27% | 2.333 |
| 4 | 95% confidence interval | < 64.00 | 50.00 | 18.76% to 81.24% | 85.71 | 48.69% to 99.27% | 3.500 |
| 5 | P value | < 66.50 | 66.67 | 30.00% to 94.08% | 85.71 | 48.69% to 99.27% | 4.667 |
| | | < 70.50 | 66.67 | 30.00% to 94.08% | 71.43 | 35.89% to 94.92% | 2.333 |
| | | < 74.00 | 66.67 | 30.00% to 94.08% | 57.14 | 25.05% to 84.18% | 1.556 |
| | | < 78.50 | 83.33 | 43.65% to 99.15% | 57.14 | 25.05% to 84.18% | 1.944 |
| | | < 83.00 | 100.0 | 60.97% to 100.0% | 57.14 | 25.05% to 84.18% | 2.333 |
| | | < 88.00 | 100.0 | 60.97% to 100.0% | 42.86 | 15.82% to 74.95% | 1.750 |
| | | < 99.00 | 100.0 | 60.97% to 100.0% | 28.57 | 5.077% to 64.11% | 1.400 |
| | | < 175.5 | 100.0 | 60.97% to 100.0% | 14.29 | 0.7328% to 51.31% | 1.167 |
| 7 | Data | | | | | | |
| 8 | Controls (Normal) | 7 | | | | | |
| 9 | Patients (DPN) | 6 | | | | | |

- ROC pada 30 menit

| ROC Area | | Sensitivity & Specificity | | | | | |
|----------|--------------------------|---------------------------|--------|------------------|--------|-------------------|--------|
| | | Sensitivity% | 95% CI | Specificity% | 95% CI | Likelihood ratio | |
| 1 | Area under the ROC curve | < 46.00 | 0.000 | 0.000% to 43.45% | 85.71 | 48.69% to 99.27% | 0.000 |
| 2 | Area | < 58.50 | 20.00 | 1.026% to 62.45% | 85.71 | 48.69% to 99.27% | 1.400 |
| 3 | Std. Error | < 65.50 | 40.00 | 7.107% to 76.93% | 85.71 | 48.69% to 99.27% | 2.800 |
| 4 | 95% confidence interval | < 71.50 | 60.00 | 23.07% to 92.89% | 85.71 | 48.69% to 99.27% | 4.200 |
| 5 | P value | < 77.00 | 60.00 | 23.07% to 92.89% | 71.43 | 35.89% to 94.92% | 2.100 |
| | | < 80.50 | 60.00 | 23.07% to 92.89% | 42.86 | 15.82% to 74.95% | 1.050 |
| | | < 86.50 | 60.00 | 23.07% to 92.89% | 28.57 | 5.077% to 64.11% | 0.8400 |
| | | < 98.50 | 100.0 | 56.55% to 100.0% | 28.57 | 5.077% to 64.11% | 1.400 |
| | | < 160.0 | 100.0 | 56.55% to 100.0% | 14.29 | 0.7328% to 51.31% | 1.167 |
| 7 | Data | | | | | | |
| 8 | Controls (Normal) | 7 | | | | | |
| 9 | Patients (DPN) | 5 | | | | | |