**LAMPIRAN**

Lampiran 1

**SURAT PERMOHONAN RESPONDEN**

Dengan Hormat,

Saya yang bertandatangan dibawah ini adalah mahasiswa Program Studi D-IV Keperawatan Poltekkes Kemenkes Yogyakarta :

Nama : IZMI NUR RASYIDA

NIM : P07120214016

Saya akan melakukan penelitian yang berjudul “Pengaruh *Transcutaneous Electrical Nerve Stimulation (TENS)* terhadap Nyeri *Post Sectio Caesarea* di RSUD Sleman Yogyakarta”.

Sehubungan dengan maksud tersebut, maka dengan kerendahan hati saya mohon partisipasi Saudara/Bapak/Ibu untuk menjadi responden penelitian ini. Data yang diperoleh dari penelitian ini dapat bermanfaat bagi masyarakat, tenaga kesehatan, dan institusi pendidikan. Informasi tentang data yang diperoleh akan dijamin kerahasiaanya dan hanya digunakan untuk data penelitian.

Demikian permohonan ini, atas perhatian dan partisipasinya saya ucapkan terima kasih.

|  |
| --- |
| Hormat saya,  IZMI NUR RASYIDA |

Lampiran 2

**PENJELASAN UNTUK MENGIKUTI PENELITIAN (PSP)**

1. Saya adalah Izmi Nur Rasyida mahasiswa dari institusi Politeknik Kesehatan Kementrian Kesehatan Yogyakarta jurusan D-IV Keperawatan dengan minat khusus Anestesi dengan ini meminta anda untuk berpartisipasi dengan sukarela dalam penelitian yang berjudul “Pengaruh *Transcutaneous Electrical Nerve Stimulation (TENS)* terhadap Nyeri *Post Sectio Caesarea* di RSUD Sleman Yogyakarta”.
2. Tujuan dari penelitian ini adalah untuk mengetahui mengetahui pengaruh *Transcutaneous Electrical Nerve Stimulation (TENS)* terhadap nyeri *post* *Sectio Caesarea* di RSUD Sleman Yogyakarta.
3. Penelitian ini dapat memberi manfaat yaitu untuk mengetahui Membuktikan dan mendukung teori tentang pengaruh *Transcutaneous Electrical Nerve Stimulation (TENS)* terhadap nyeri *post* *Sectio Caesarea*.
4. Penelitian ini akan dilakukan setelah 2 jam *post Sectio Caesarea*. Sampel penelitian yang terlibat dalam penelitian yaitu pasien yang telah menjalankan operasi *Sectio Caesarea* di RSUD Sleman Yogyakarta. Bahan penelitiannya berupa observasi nyeri.
5. Prosedur pengambilan bahan penelitian/data dengan cara meminta persetujuan terlebih dahulu kepada anda untuk melakukan penelitian dengan cara memberikan lembar persetujuan bahwa anda bersedia mengikuti penelitian saya, saya akan beri waktu untuk berpikir atau untuk menanyakan hal-hal yang anda belum jelas tentang penjelasan dari saya, apabila anda menyetujui mengikuti penelitian yang saya lakukan baru menandatangani surat persetujuan. Setelah itu anda akan dioperasi menggunakan spinal anestesi atau tidak setelah selesai operasi saya akan melakukan observasi apakah anda mengalami nyeri pada saat 2 jam setelah operasi selesai.
6. Keuntungan Bapak/Ibu/Saudara/i yang diperoleh dalam keiikutsertaan pada penelitian ini adalah hasil dari penelitian nyeri yang dirasakan akan dicatat dalam lembar observasi
7. Seandainya anda tidak menyetujui cara ini maka anda dapat memilih tidak mengikuti penelitian ini. Partisipasi anda bersifat sukarela, tidak ada paksaan, dan anda bisa sewaktu-waktu mengundurkan diri dari penelitian ini.
8. Nama dan jati diri anda akan tetap dirahasiakan. Bila ada hal-hal yang belum jelas, anda dapat menghubungi Izmi Nur Rasyida dengan nomor telepon 085643817550.

Peneliti

Izmi Nur Rasyida

Lampiran 3

**SURAT PERSETUJUAN RESPONDEN**

Saya yang bertanda tangan di bawah ini :

Nama :

Umur :

Alamat :

Dengan ini saya bersedia berpartisipasi sebagai responden dalam penelitian yang dilakukan oleh saudara Izmi Nur Rasyida selaku mahasiswa D-IV Keperawatan Politeknik Kesehatan Kementrian Kesehatan Yogyakarta dengan judul “Pengaruh *Transcutaneous Electrical Nerve Stimulation (TENS)* terhadap Nyeri *Post Sectio Caesarea* di RSUD Sleman Yogyakarta” dengan suka rela dan tanpa paksaan dari siapapun.

Penelitian ini tidak akan merugikan saya ataupun berakibat buruk bagi saya dan keluarga saya, maka saya bersedia menjadi responden.

Demikian surat persetujuan ini saya buat untuk dipergunakan sebagaimana mestinya.

|  |
| --- |
| Yogyakarta, 2018  Responden  (………….....………) |

Lampiran 4

**LEMBAR OBSERVASI**

**PENGARUH *TRANSCUTANEOUS ELECTRICAL NERVE STIMULATION (TENS)* TERHADAP NYERI *POST***

***SECTIO CAESAREA* DI RSUD SLEMAN**

**YOGYAKARTA**

**KODE**

**(Diisi oleh peneliti)**

No. Responden :

Tanggal Pengisian :

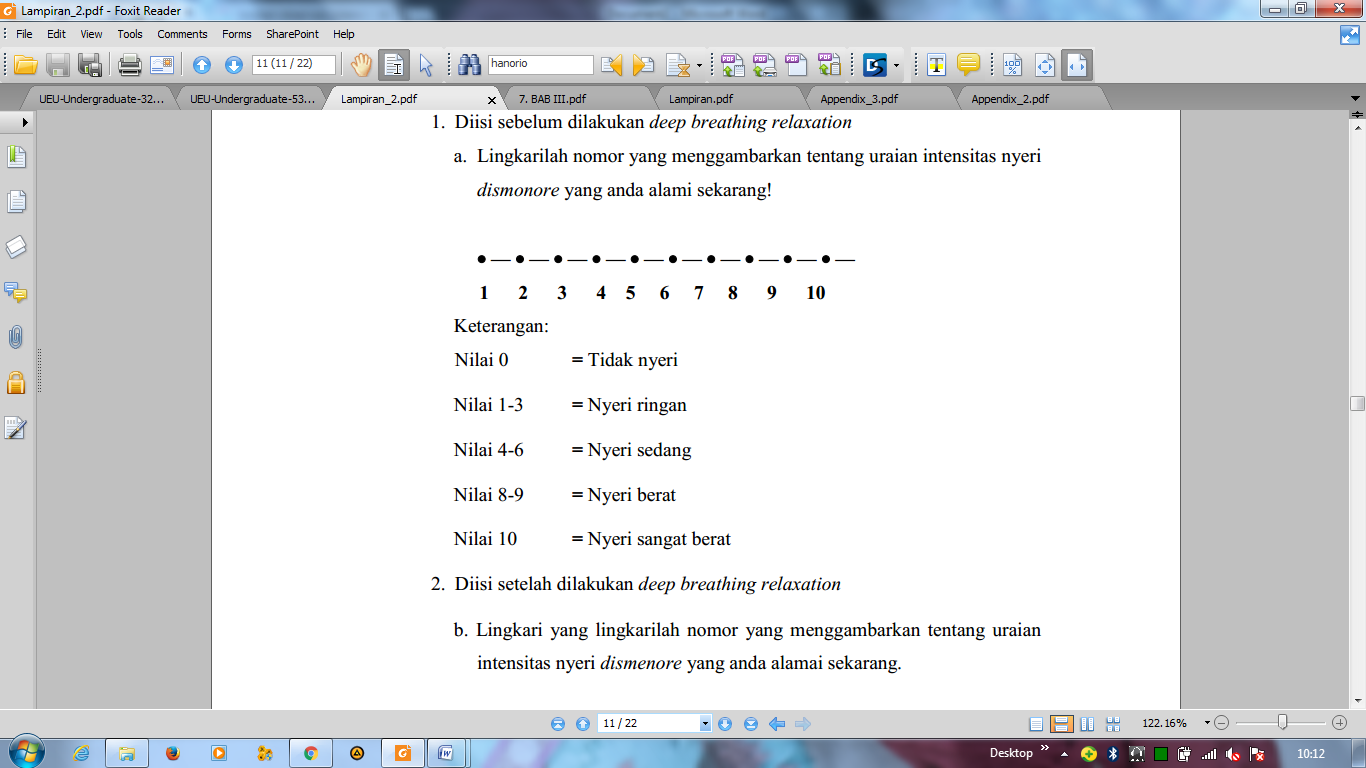
Nama :

Umur :

ASA :

Operasi SC yang ke :

1. **Lingkari nomor yang menggambarkan nyeri *post Sectio Caesarea* yang pasien rasakan sekarang**

****

Keterangan:

Nilai 0 = Tidak nyeri

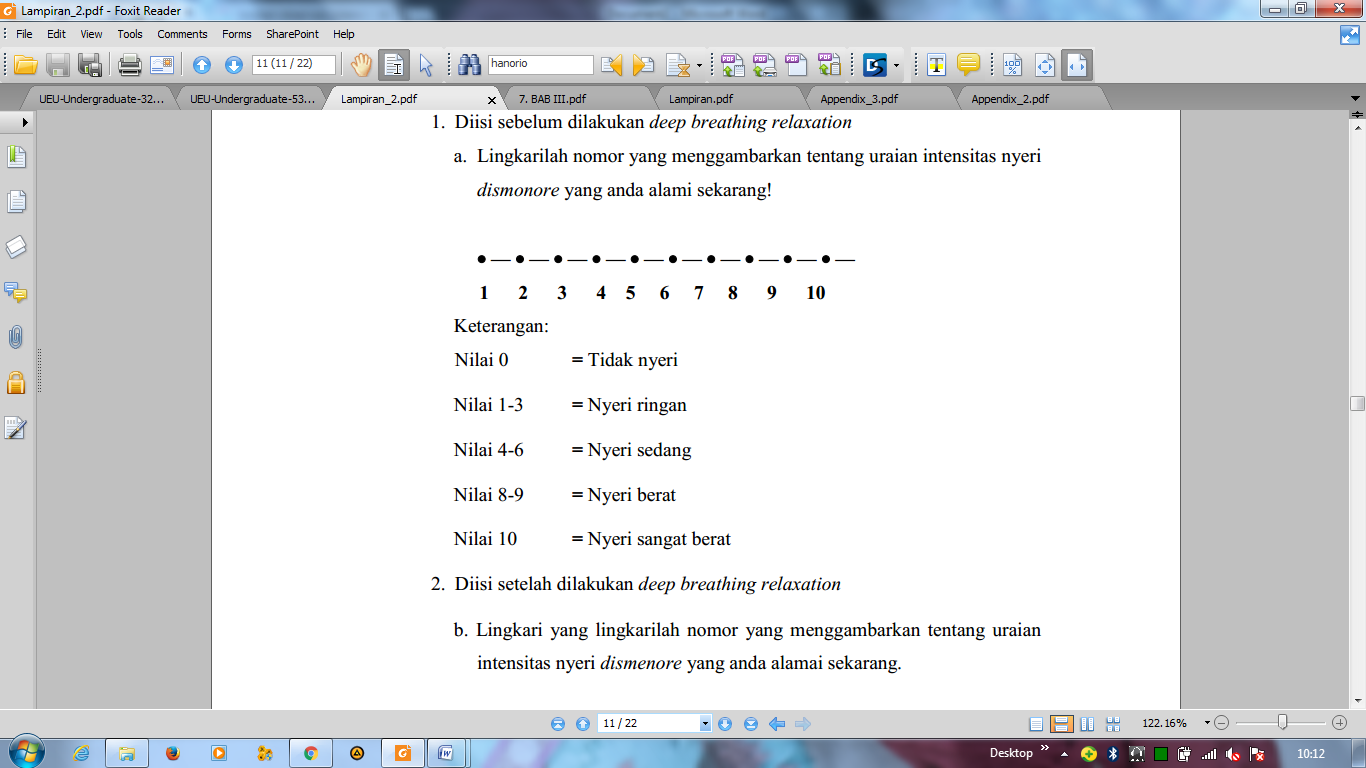
Nilai 1-3 = Nyeri ringan

Nilai 4-6 = Nyeri sedang

Nyeri 7-9 = Nyeri berat

Nilai 10 = Nyeri sangat berat

1. **Lingkari nomor yang menggambarkan nyeri *post Sectio Caesarea* yang dirasakan pasien setelah 15 menit dari *pre-test***

**

Keterangan:

Nilai 0 = Tidak nyeri

Nilai 1-3 = Nyeri ringan

Nilai 4-6 = Nyeri sedang

Nyeri 7-9 = Nyeri berat

Nilai 10 = Nyeri sangat berat

Lampiran 5

**STANDAR OPERASIONAL PROSEDUR (SOP)**

***TRANSCUTANEOUS ELECTRICAL NERVE STIMULATION (TENS)***

|  |  |
| --- | --- |
| 1. Pengertian | Suatu alat untuk mengurangi nyeri dan termasuk penanganan nyeri non farmakologi. |
| 1. Tujuan | Sebagai acuan untuk pemasangan *TENS* |
| 1. Alat dan bahan | 1. *Transcutaneous Electrical Nerve Stimulation (TENS)* 2. Sarung tangan 3. Lembar observasi |
| 1. Prosedur/langkah kerja | 1. Perkenalkan diri kepada pasien dan menerangkan tujuan, dan tindakan yang akan dilakukan. 2. Lakukan cuci tangan dan gunakan sarung tangan. 3. Atur posisi pasien senyaman mungkin. 4. Ukur skala nyeri pada pasien. Skala 0 : tidak nyeri, 1-3 : nyeri ringan, 4-6 : nyeri sedang, 7-9 nyeri berat, 10 : nyeri sangat berat 5. Bebaskan area yang akan dipasang elektroda. 6. Oleskan gel secara merata ke seluruh elektroda. Atau perekat elektroda dibuka. 7. Letakkan elektroda ke daerah nyeri atau sesuai indikasi. 8. Hidupkan alat dan beri sensasi *week* atau *strong* sampai pasien merasa nyaman*.* 9. Atur *timer* 15 menit. 10. Setelah 15 menit lepas elektroda dan atur posisi pasien senyaman mungkin. 11. Bereskan alat. 12. Evaluasi nyeri pada pasien. Skala 0 : tidak nyeri, 1-3 : nyeri ringan, 4-6 : nyeri sedang, 7-9 nyeri berat, 10 : nyeri sangat berat 13. Atur posisi pasien senyaman mungkin. 14. Dokumentasikan ke lembar observasi. |

Yogyakarta, Januari 2018

Lampiran 6

**LEMBAR OLAH DATA**

**KARAKTERISTIK RESPONDEN**

1. **DIBERIKAN *TENS***

| **Umur Responden** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 17-24 | 5 | 26.3 | 26.3 | 26.3 |
| 25-32 | 9 | 47.4 | 47.4 | 73.7 |
| 33-40 | 5 | 26.3 | 26.3 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Tingkat Pendidikan** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | SD | 1 | 5.3 | 5.3 | 5.3 |
| SMP | 5 | 26.3 | 26.3 | 31.6 |
| SMA | 8 | 42.1 | 42.1 | 73.7 |
| D3/D4/S1 | 5 | 26.3 | 26.3 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **ASA** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | ASA I | 11 | 57.9 | 57.9 | 57.9 |
| ASA II | 8 | 42.1 | 42.1 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Paritas** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Primipara | 9 | 47.4 | 47.4 | 47.4 |
| Multipara | 10 | 52.6 | 52.6 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Pre Test Nyeri** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Nyeri Sedang | 16 | 84.2 | 84.2 | 84.2 |
| Nyeri Berat | 3 | 15.8 | 15.8 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Post Test Nyeri** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Nyeri Ringan | 16 | 84.2 | 84.2 | 84.2 |
| Nyeri Sedang | 2 | 10.5 | 10.5 | 94.7 |
| Nyeri Berat | 1 | 5.3 | 5.3 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

1. **TIDAK DIBERIKAN *TENS***

| **Umur Responden** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 17-24 | 4 | 21.1 | 21.1 | 21.1 |
| 25-32 | 8 | 42.1 | 42.1 | 63.2 |
| 33-40 | 7 | 36.8 | 36.8 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Tingkat Pendidikan** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | SD | 3 | 15.8 | 15.8 | 15.8 |
| SMP | 5 | 26.3 | 26.3 | 42.1 |
| SMA | 6 | 31.6 | 31.6 | 73.7 |
| D3/D4/S1 | 5 | 26.3 | 26.3 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **ASA** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | ASA I | 17 | 89.5 | 89.5 | 89.5 |
| ASA II | 2 | 10.5 | 10.5 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Paritas** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Primipara | 9 | 47.4 | 47.4 | 47.4 |
| Multipara | 10 | 52.6 | 52.6 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Pre Test Nyeri** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Nyeri Sedang | 13 | 68.4 | 68.4 | 68.4 |
| Nyeri Berat | 6 | 31.6 | 31.6 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

| **Post Test Nyeri** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Nyeri Ringan | 6 | 31.6 | 31.6 | 31.6 |
| Nyeri Sedang | 10 | 52.6 | 52.6 | 84.2 |
| Nyeri Berat | 3 | 15.8 | 15.8 | 100.0 |
| Total | 19 | 100.0 | 100.0 |  |

**HASIL UJI NORMALITAS *SHAPIRO-WILK***

| 1. **Kelompok Intervensi**   **Case Processing Summary** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | Cases | | | | | |
|  | Valid | | Missing | | Total | |
|  | N | Percent | N | Percent | N | Percent |
| Pre Test Nyeri | 19 | 100.0% | 0 | .0% | 19 | 100.0% |
| Post Test Nyeri | 19 | 100.0% | 0 | .0% | 19 | 100.0% |

| **Descriptives** | | | | |
| --- | --- | --- | --- | --- |
|  |  |  | Statistic | Std. Error |
| Pre Test Nyeri | Mean | | 3.16 | .086 |
| 95% Confidence Interval for Mean | Lower Bound | 2.98 |  |
| Upper Bound | 3.34 |  |
| 5% Trimmed Mean | | 3.12 |  |
| Median | | 3.00 |  |
| Variance | | .140 |  |
| Std. Deviation | | .375 |  |
| Minimum | | 3 |  |
| Maximum | | 4 |  |
| Range | | 1 |  |
| Interquartile Range | | 0 |  |
| Skewness | | 2.041 | .524 |
| Kurtosis | | 2.410 | 1.014 |
| Post Test Nyeri | Mean | | 2.21 | .123 |
| 95% Confidence Interval for Mean | Lower Bound | 1.95 |  |
| Upper Bound | 2.47 |  |
| 5% Trimmed Mean | | 2.12 |  |
| Median | | 2.00 |  |
| Variance | | .287 |  |
| Std. Deviation | | .535 |  |
| Minimum | | 2 |  |
| Maximum | | 4 |  |
| Range | | 2 |  |
| Interquartile Range | | 0 |  |
| Skewness | | 2.658 | .524 |
| Kurtosis | | 6.883 | 1.014 |

| **Tests of Normality** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| Pre Test Nyeri | .505 | 19 | .000 | .445 | 19 | .000 |
| Post Test Nyeri | .495 | 19 | .000 | .460 | 19 | .000 |
| a. Lilliefors Significance Correction | | | |  |  |  |

1. **Kelompok Kontrol**

| **Case Processing Summary** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cases | | | | | | | | |
|  | Valid | | Missing | | | Total | | | |
|  | N | Percent | N | | Percent | N | | Percent | |
| Pre Test Nyeri | 19 | 100.0% | 0 | | .0% | 19 | | 100.0% | |
| Post Test Nyeri | 19 | 100.0% | 0 | | .0% | 19 | | 100.0% | |
| **Descriptives** | | | | | | | | | | |
|  |  | | |  | | | Statistic | | Std. Error | |
| Pre Test Nyeri | Mean | | | | | | 3.32 | | .110 | |
| 95% Confidence Interval for Mean | | | Lower Bound | | | 3.09 | |  | |
| Upper Bound | | | 3.55 | |  | |
| 5% Trimmed Mean | | | | | | 3.30 | |  | |
| Median | | | | | | 3.00 | |  | |
| Variance | | | | | | .228 | |  | |
| Std. Deviation | | | | | | .478 | |  | |
| Minimum | | | | | | 3 | |  | |
| Maximum | | | | | | 4 | |  | |
| Range | | | | | | 1 | |  | |
| Interquartile Range | | | | | | 1 | |  | |
| Skewness | | | | | | .862 | | .524 | |
| Kurtosis | | | | | | -1.419 | | 1.014 | |
| Post Test Nyeri | Mean | | | | | | 2.84 | | .158 | |
| 95% Confidence Interval for Mean | | | Lower Bound | | | 2.51 | |  | |
| Upper Bound | | | 3.17 | |  | |
| 5% Trimmed Mean | | | | | | 2.82 | |  | |
| Median | | | | | | 3.00 | |  | |
| Variance | | | | | | .474 | |  | |
| Std. Deviation | | | | | | .688 | |  | |
| Minimum | | | | | | 2 | |  | |
| Maximum | | | | | | 4 | |  | |
| Range | | | | | | 2 | |  | |
| Interquartile Range | | | | | | 1 | |  | |
| Skewness | | | | | | .212 | | .524 | |
| Kurtosis | | | | | | -.662 | | 1.014 | |

| **Tests of Normality** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| Pre Test Nyeri | .430 | 19 | .000 | .591 | 19 | .000 |
| Post Test Nyeri | .275 | 19 | .001 | .803 | 19 | .001 |
| a. Lilliefors Significance Correction | | | |  |  |  |

**UJI *WILCOXON* KELOMPOK INTERVENSI**

| **Ranks** | | | | |
| --- | --- | --- | --- | --- |
|  |  | N | Mean Rank | Sum of Ranks |
| Post Test Nyeri - Pre Test Nyeri | Negative Ranks | 17a | 9.00 | 153.00 |
| Positive Ranks | 0b | .00 | .00 |
| Ties | 2c |  |  |
| Total | 19 |  |  |
| a. Post Test Nyeri < Pre Test Nyeri | |  |  |  |
| b. Post Test Nyeri > Pre Test Nyeri | |  |  |  |
| c. Post Test Nyeri = Pre Test Nyeri | |  |  |  |

| **Test Statisticsb** | |
| --- | --- |
|  | Post Test Nyeri - Pre Test Nyeri |
| Z | -4.025a |
| Asymp. Sig. (2-tailed) | .000 |
| a. Based on positive ranks. | |
| b. Wilcoxon Signed Ranks Test | |
|  | |

**UJI *WILCOXON* KELOMPOK KONTROL**

| **Ranks** | | | | |
| --- | --- | --- | --- | --- |
|  |  | N | Mean Rank | Sum of Ranks |
| Post Test Nyeri - Pre Test Nyeri | Negative Ranks | 8a | 4.50 | 36.00 |
| Positive Ranks | 0b | .00 | .00 |
| Ties | 11c |  |  |
| Total | 19 |  |  |
| a. Post Test Nyeri < Pre Test Nyeri | |  |  |  |
| b. Post Test Nyeri > Pre Test Nyeri | |  |  |  |
| c. Post Test Nyeri = Pre Test Nyeri | |  |  |  |

| **Test Statisticsb** | |
| --- | --- |
|  | Post Test Nyeri - Pre Test Nyeri |
| Z | -2.714a |
| Asymp. Sig. (2-tailed) | .007 |
| a. Based on positive ranks. | |
| b. Wilcoxon Signed Ranks Test | |

**UJI *MANN WHITNEY***

| **Ranks** | | | | |
| --- | --- | --- | --- | --- |
|  | Kelompok Penelitian | N | Mean Rank | Sum of Ranks |
| Selisih Tingkat Nyeri | intervensi | 19 | 24.92 | 473.50 |
| kontrol | 19 | 14.08 | 267.50 |
| Total | 38 |  |  |

| **Test Statisticsb** | |
| --- | --- |
|  | Selisih Tingkat Nyeri |
| Mann-Whitney U | 77.500 |
| Wilcoxon W | 267.500 |
| Z | -3.534 |
| Asymp. Sig. (2-tailed) | .000 |
| Exact Sig. [2\*(1-tailed Sig.)] | .002a |
| a. Not corrected for ties. | |
| b. Grouping Variable: Kelompok Penelitian | |

Lampiran 7

**ANGGARAN PENELITIAN**

**TAHUN 2018**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Kegiatan** | **Volume** | **Satuan** | **Unit cost** | **Jumlah** |
| 1 | Penyusunan proposal |  |  |  | 100.000 |
| 2 | Seminar proposal |  |  |  | 100.000 |
| 3 | Revisi proposal |  |  |  | 100.000 |
| 4 | Studi Pendahuluan | 1 | kl | 200.000 | 200.000 |
| 5 | Perijinan penelitian |  |  | 400.000 | 400.000 |
| 6 | Alat *Transcutaneous Electrical Nerve Stimulation (TENS)* | 1 | bh | 150.000 | 150.000 |
| 7 | Etichal Clearance |  |  |  | 50.000 |
| 8 | Transportasi |  |  |  | 100.000 |
| 9 | Print  - Lembar Observasi  - SOP | 76  38 | lbr  lbr | 130  130 | 100.000 |
| 10 | Pelaksanaan Penelitian   * Cinderamata responden * Asisten peneliti | 38  2 | bh  orang | 5.200  100.000 | 200.000  200.000 |
| 11 | Laporan skripsi |  |  |  | 150.000 |
| 12 | Sidang skripsi |  |  |  | 150.000 |
| 13 | Revisi laporan skripsi akhir |  |  |  | 150.000 |
| 14 | Biaya tak terduga |  |  |  | 300.000 |
| **Jumlah** | |  |  |  | 2.300.000 |

Yogyakarta, Juli 2018

Peneliti

Lampiran 8

**JADWAL PENYUSUNAN SKRIPSI**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Jadwal Kegiatan | **TAHUN AKADEMIK 2017/2018** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan | | | | Feb | | | | Maret | | | | April | | | | Mei | | | | Juni | | | | Juli | | | | | |
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | | 2 | | 3 | 4 | |
| 1 | Pengajuan judul |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 2 | Studi pendahuluan |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 3 | Penyusunan proposal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 4 | Seminar proposal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 5 | Revisi proposal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 6 | Perijinan penelitian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 7 | Persiapan penelitian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 8 | Pelaksanaan penelitian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 9 | Pengolahan data |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 10 | Laporan Penelitian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 11 | Ujian hasil skripsi |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  | |
| 12 | Revisi dan penjilidan |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  |  |



