BURST Statistical Mock-up Report

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10 October, 2023

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# Introduction

This is the report for the first interim analysis of the BURST trial. The data are based on an export from the Viedoc electronic data capture at 2023-09-19 system time stamped “\_20230919\_063242”.

While the results are based on real data, the treatment allocation has been drawn randomly for this report. Thus, this is a mock-up report intended to show how the final report will look like, without showing the actual results of the trial and the treatment differences.

There were 13 included patients of which 10 were randomised and included in the full analysis set.

# Demographics

## All randomised

| All included | |
| --- | --- |
| Demographics and baseline characteristics | |
|  | all obs |
|  | (N=13) |
| Site name |  |
| Akademiska | 6 (46.15%) |
| OUS | 7 (53.85%) |
| Gender |  |
| Male | 3 (23.08%) |
| Female | 10 (76.92%) |
| Age (years) |  |
| n | 13 |
| Mean (sd) | 52.90 (6.91) |
| IQR | 7.50 |
| min - max | 38.90 - 66.70 |
| Marital status |  |
| Married | 5 (38.46%) |
| Single | 1 (7.69%) |
| Divorsed | 1 (7.69%) |
| Cohabitant | 5 (38.46%) |
| Partner | 1 (7.69%) |
| Number of children |  |
| n | 13 |
| Mean (sd) | 1.54 (1.05) |
| IQR | 1.00 |
| min - max | 0.00 - 4.00 |
| Working? |  |
| Yes | 8 (61.54%) |
| No | 5 (38.46%) |
| Working hours per week |  |
| n | 8 |
| Mean (sd) | 31.62 (14.48) |
| IQR | 8.75 |
| min - max | 0.00 - 40.00 |
| Years not working |  |
| n | 5 |
| Mean (sd) | 1.80 (0.84) |
| IQR | 1.00 |
| min - max | 1.00 - 3.00 |
| Type of governmental support |  |
| Alderstrygd, førtidspensjon (AFP) eller etterlattepensjon | 0 (0.00%) |
| Sykepenger helt (er helt sykmeldt) | 1 (7.69%) |
| Sykepenger delvis (er delvis sykmeldt) | 1 (7.69%) |
| Arbeidsavklaringspenger (AAP) | 4 (30.77%) |
| Uføreytelse/pensjon, hel | 1 (7.69%) |
| Uføreytelse/pensjon, delvis | 1 (7.69%) |
| Mottar ingen stønad, får lønn fra arbeidsgiver | 5 (38.46%) |
| PCS Total score |  |
| n | 13 |
| Mean (sd) | 18.54 (6.89) |
| IQR | 12.00 |
| min - max | 8.00 - 28.00 |
| PCS Rumination |  |
| n | 13 |
| Mean (sd) | 7.85 (3.26) |
| IQR | 4.00 |
| min - max | 3.00 - 14.00 |
| PCS Magnification |  |
| n | 13 |
| Mean (sd) | 2.54 (1.66) |
| IQR | 3.00 |
| min - max | 0.00 - 5.00 |
| PCS Helplessness |  |
| n | 13 |
| Mean (sd) | 8.15 (3.34) |
| IQR | 5.00 |
| min - max | 4.00 - 14.00 |
| Treatment for neuropatic pain? |  |
| No | 8 (61.54%) |
| Yes | 5 (38.46%) |
| Amitriptyline |  |
| No | 11 (84.62%) |
| Yes | 2 (15.38%) |
| Gabapentin |  |
| No | 10 (76.92%) |
| Yes | 3 (23.08%) |
| Pregabalin |  |
| No | 11 (84.62%) |
| Yes | 2 (15.38%) |
| Duloxetine |  |
| No | 13 (100.00%) |
| Treatment with other non-opoids? |  |
| No | 3 (23.08%) |
| Yes | 10 (76.92%) |
| Paracetamol |  |
| No | 5 (38.46%) |
| Yes | 8 (61.54%) |
| NSAIDs |  |
| No | 9 (69.23%) |
| Yes | 4 (30.77%) |
| Antidepressiva |  |
| No | 13 (100.00%) |
| Treatmetn with opoids? |  |
| No | 8 (61.54%) |
| Yes | 5 (38.46%) |
| Total daily morphine milligram equivalents |  |
| n | 5 |
| Mean (sd) | 18.50 (9.97) |
| IQR | 17.00 |
| min - max | 7.50 - 30.00 |
| Previous physiotherapy? |  |
| Yes | 13 (100.00%) |
| Previous chiropractor? |  |
| No | 6 (46.15%) |
| Yes | 7 (53.85%) |
| Previous psychologist? |  |
| No | 11 (84.62%) |
| Yes | 2 (15.38%) |
| Previous TENS? |  |
| No | 3 (23.08%) |
| Yes | 10 (76.92%) |
| Other previous treatment? |  |
| No | 10 (76.92%) |
| Yes | 3 (23.08%) |
| Other previous treatment, specify |  |
| Dry needling, Blockad SI-led och rotblockad. | 1 |
| epidural injeksjon, iv infusjon lidokain, ketamin | 1 |
| Specialdiet via dietist, rotblockader x 2, ryggkirurgi, värmebad. | 1 |
| Current physiotherapy? |  |
| No | 9 (69.23%) |
| Yes | 4 (30.77%) |
| Current chiropractor? |  |
| No | 13 (100.00%) |
| Current psychologist? |  |
| No | 13 (100.00%) |
| Current TENS |  |
| No | 9 (69.23%) |
| Yes | 4 (30.77%) |
| Other current treatment? |  |
| No | 12 (92.31%) |
| Yes | 1 (7.69%) |
| Other current treatment, specify |  |
| Följer sjukgymnast-program hemma. | 1 |
| Current back pain? |  |
| No | 3 (23.08%) |
| Yes | 10 (76.92%) |
| Duration of pain (years) |  |
| n | 13 |
| Mean (sd) | 6.91 (9.90) |
| IQR | 8.30 |
| min - max | 0.40 - 36.00 |
| Duration of current pain level (years) |  |
| n | 13 |
| Mean (sd) | 2.63 (3.51) |
| IQR | 1.75 |
| min - max | 0.25 - 10.00 |

## Excluded from FAS

| Excluded before randomisation | |
| --- | --- |
| Demographics and baseline characteristics | |
|  | all obs |
|  | (N=3) |
| Site name |  |
| Akademiska | 2 (66.67%) |
| OUS | 1 (33.33%) |
| Gender |  |
| Male | 0 (0.00%) |
| Female | 3 (100.00%) |
| Age (years) |  |
| n | 3 |
| Mean (sd) | 54.40 (4.51) |
| IQR | 4.05 |
| min - max | 49.20 - 57.30 |
| Marital status |  |
| Married | 0 (0.00%) |
| Single | 0 (0.00%) |
| Divorsed | 1 (33.33%) |
| Cohabitant | 2 (66.67%) |
| Partner | 0 (0.00%) |
| Number of children |  |
| n | 3 |
| Mean (sd) | 0.67 (0.58) |
| IQR | 0.50 |
| min - max | 0.00 - 1.00 |
| Working? |  |
| Yes | 2 (66.67%) |
| No | 1 (33.33%) |
| Working hours per week |  |
| n | 2 |
| Mean (sd) | 40.00 (0.00) |
| IQR | 0.00 |
| min - max | 40.00 - 40.00 |
| Years not working |  |
| n | 1 |
| Mean (sd) | 1.00 (NA) |
| IQR | 0.00 |
| min - max | 1.00 - 1.00 |
| Type of governmental support |  |
| Alderstrygd, førtidspensjon (AFP) eller etterlattepensjon | 0 (0.00%) |
| Sykepenger helt (er helt sykmeldt) | 0 (0.00%) |
| Sykepenger delvis (er delvis sykmeldt) | 1 (33.33%) |
| Arbeidsavklaringspenger (AAP) | 1 (33.33%) |
| Uføreytelse/pensjon, hel | 0 (0.00%) |
| Uføreytelse/pensjon, delvis | 0 (0.00%) |
| Mottar ingen stønad, får lønn fra arbeidsgiver | 1 (33.33%) |
| PCS Total score |  |
| n | 3 |
| Mean (sd) | 24.33 (3.06) |
| IQR | 3.00 |
| min - max | 21.00 - 27.00 |
| PCS Rumination |  |
| n | 3 |
| Mean (sd) | 9.67 (1.53) |
| IQR | 1.50 |
| min - max | 8.00 - 11.00 |
| PCS Magnification |  |
| n | 3 |
| Mean (sd) | 4.00 (1.00) |
| IQR | 1.00 |
| min - max | 3.00 - 5.00 |
| PCS Helplessness |  |
| n | 3 |
| Mean (sd) | 10.67 (3.21) |
| IQR | 3.00 |
| min - max | 7.00 - 13.00 |
| Treatment for neuropatic pain? |  |
| No | 2 (66.67%) |
| Yes | 1 (33.33%) |
| Amitriptyline |  |
| No | 3 (100.00%) |
| Yes | 0 (0.00%) |
| Gabapentin |  |
| No | 2 (66.67%) |
| Yes | 1 (33.33%) |
| Pregabalin |  |
| No | 3 (100.00%) |
| Yes | 0 (0.00%) |
| Duloxetine |  |
| No | 3 (100.00%) |
| Treatment with other non-opoids? |  |
| No | 0 (0.00%) |
| Yes | 3 (100.00%) |
| Paracetamol |  |
| No | 0 (0.00%) |
| Yes | 3 (100.00%) |
| NSAIDs |  |
| No | 2 (66.67%) |
| Yes | 1 (33.33%) |
| Antidepressiva |  |
| No | 3 (100.00%) |
| Treatmetn with opoids? |  |
| No | 1 (33.33%) |
| Yes | 2 (66.67%) |
| Total daily morphine milligram equivalents |  |
| n | 2 |
| Mean (sd) | 8.75 (1.77) |
| IQR | 1.25 |
| min - max | 7.50 - 10.00 |
| Previous physiotherapy? |  |
| Yes | 3 (100.00%) |
| Previous chiropractor? |  |
| No | 2 (66.67%) |
| Yes | 1 (33.33%) |
| Previous psychologist? |  |
| No | 3 (100.00%) |
| Yes | 0 (0.00%) |
| Previous TENS? |  |
| No | 1 (33.33%) |
| Yes | 2 (66.67%) |
| Other previous treatment? |  |
| No | 3 (100.00%) |
| Yes | 0 (0.00%) |
| Other previous treatment, specify |  |
| s\_summary |  |
| Current physiotherapy? |  |
| No | 1 (33.33%) |
| Yes | 2 (66.67%) |
| Current chiropractor? |  |
| No | 3 (100.00%) |
| Current psychologist? |  |
| No | 3 (100.00%) |
| Current TENS |  |
| No | 3 (100.00%) |
| Yes | 0 (0.00%) |
| Other current treatment? |  |
| No | 3 (100.00%) |
| Yes | 0 (0.00%) |
| Other current treatment, specify |  |
| s\_summary |  |
| Current back pain? |  |
| No | 0 (0.00%) |
| Yes | 3 (100.00%) |
| Duration of pain (years) |  |
| n | 3 |
| Mean (sd) | 0.97 (0.55) |
| IQR | 0.55 |
| min - max | 0.40 - 1.50 |
| Duration of current pain level (years) |  |
| n | 3 |
| Mean (sd) | 0.53 (0.41) |
| IQR | 0.38 |
| min - max | 0.25 - 1.00 |

## Full analysis set

| Full analysis set (randomised) | |
| --- | --- |
| Demographics and baseline characteristics | |
|  | all obs |
|  | (N=10) |
| Site name |  |
| Akademiska | 4 (40.00%) |
| OUS | 6 (60.00%) |
| Gender |  |
| Male | 3 (30.00%) |
| Female | 7 (70.00%) |
| Age (years) |  |
| n | 10 |
| Mean (sd) | 52.45 (7.63) |
| IQR | 7.27 |
| min - max | 38.90 - 66.70 |
| Marital status |  |
| Married | 5 (50.00%) |
| Single | 1 (10.00%) |
| Divorsed | 0 (0.00%) |
| Cohabitant | 3 (30.00%) |
| Partner | 1 (10.00%) |
| Number of children |  |
| n | 10 |
| Mean (sd) | 1.80 (1.03) |
| IQR | 0.75 |
| min - max | 0.00 - 4.00 |
| Working? |  |
| Yes | 6 (60.00%) |
| No | 4 (40.00%) |
| Working hours per week |  |
| n | 6 |
| Mean (sd) | 28.83 (16.01) |
| IQR | 15.75 |
| min - max | 0.00 - 40.00 |
| Years not working |  |
| n | 4 |
| Mean (sd) | 2.00 (0.82) |
| IQR | 0.50 |
| min - max | 1.00 - 3.00 |
| Type of governmental support |  |
| Alderstrygd, førtidspensjon (AFP) eller etterlattepensjon | 0 (0.00%) |
| Sykepenger helt (er helt sykmeldt) | 1 (10.00%) |
| Sykepenger delvis (er delvis sykmeldt) | 0 (0.00%) |
| Arbeidsavklaringspenger (AAP) | 3 (30.00%) |
| Uføreytelse/pensjon, hel | 1 (10.00%) |
| Uføreytelse/pensjon, delvis | 1 (10.00%) |
| Mottar ingen stønad, får lønn fra arbeidsgiver | 4 (40.00%) |
| PCS Total score |  |
| n | 10 |
| Mean (sd) | 16.80 (6.83) |
| IQR | 9.50 |
| min - max | 8.00 - 28.00 |
| PCS Rumination |  |
| n | 10 |
| Mean (sd) | 7.30 (3.50) |
| IQR | 3.75 |
| min - max | 3.00 - 14.00 |
| PCS Magnification |  |
| n | 10 |
| Mean (sd) | 2.10 (1.60) |
| IQR | 2.00 |
| min - max | 0.00 - 5.00 |
| PCS Helplessness |  |
| n | 10 |
| Mean (sd) | 7.40 (3.13) |
| IQR | 3.75 |
| min - max | 4.00 - 14.00 |
| Treatment for neuropatic pain? |  |
| No | 6 (60.00%) |
| Yes | 4 (40.00%) |
| Amitriptyline |  |
| No | 8 (80.00%) |
| Yes | 2 (20.00%) |
| Gabapentin |  |
| No | 8 (80.00%) |
| Yes | 2 (20.00%) |
| Pregabalin |  |
| No | 8 (80.00%) |
| Yes | 2 (20.00%) |
| Duloxetine |  |
| No | 10 (100.00%) |
| Treatment with other non-opoids? |  |
| No | 3 (30.00%) |
| Yes | 7 (70.00%) |
| Paracetamol |  |
| No | 5 (50.00%) |
| Yes | 5 (50.00%) |
| NSAIDs |  |
| No | 7 (70.00%) |
| Yes | 3 (30.00%) |
| Antidepressiva |  |
| No | 10 (100.00%) |
| Treatmetn with opoids? |  |
| No | 7 (70.00%) |
| Yes | 3 (30.00%) |
| Total daily morphine milligram equivalents |  |
| n | 3 |
| Mean (sd) | 25.00 (6.24) |
| IQR | 6.00 |
| min - max | 18.00 - 30.00 |
| Previous physiotherapy? |  |
| Yes | 10 (100.00%) |
| Previous chiropractor? |  |
| No | 4 (40.00%) |
| Yes | 6 (60.00%) |
| Previous psychologist? |  |
| No | 8 (80.00%) |
| Yes | 2 (20.00%) |
| Previous TENS? |  |
| No | 2 (20.00%) |
| Yes | 8 (80.00%) |
| Other previous treatment? |  |
| No | 7 (70.00%) |
| Yes | 3 (30.00%) |
| Other previous treatment, specify |  |
| Dry needling, Blockad SI-led och rotblockad. | 1 |
| epidural injeksjon, iv infusjon lidokain, ketamin | 1 |
| Specialdiet via dietist, rotblockader x 2, ryggkirurgi, värmebad. | 1 |
| Current physiotherapy? |  |
| No | 8 (80.00%) |
| Yes | 2 (20.00%) |
| Current chiropractor? |  |
| No | 10 (100.00%) |
| Current psychologist? |  |
| No | 10 (100.00%) |
| Current TENS |  |
| No | 6 (60.00%) |
| Yes | 4 (40.00%) |
| Other current treatment? |  |
| No | 9 (90.00%) |
| Yes | 1 (10.00%) |
| Other current treatment, specify |  |
| Följer sjukgymnast-program hemma. | 1 |
| Current back pain? |  |
| No | 3 (30.00%) |
| Yes | 7 (70.00%) |
| Duration of pain (years) |  |
| n | 10 |
| Mean (sd) | 8.69 (10.74) |
| IQR | 7.53 |
| min - max | 1.00 - 36.00 |
| Duration of current pain level (years) |  |
| n | 10 |
| Mean (sd) | 3.26 (3.81) |
| IQR | 3.27 |
| min - max | 0.25 - 10.00 |

# Treatment information

## Amplitude for sensory threshod

| Amplitude for sensory treshold | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | |
| Period | | | | | | |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| 2-01 |  |  |  |  |  |  |
|  | 0.75 | 0.8 | 0.85 | 0.85 | 0.95 | 0.9 |
| 2-03 |  |  |  |  |  |  |
|  | 1.75 | 2.15 | 1.7 | 1.75 | 1.75 | 1.3 |
| 2-04 |  |  |  |  |  |  |
|  | 1.3 | 1.5 | 1.6 | 1.35 | 1.3 | 1.3 |
| 2-05 |  |  |  |  |  |  |
|  | 0.95 | 2.35 | 2.3 | 2.8 | 1.65 | 2.5 |
| 2-06 |  |  |  |  |  |  |
|  | 1.3 | 1.7 | 2.2 | 2.2 | 2.5 | 2.4 |
| 2-07 |  |  |  |  |  |  |
|  | 2.45 | 2.65 | 2.7 | 2.65 | 2.6 | 3.15 |
| 3-002 |  |  |  |  |  |  |
|  | 0.35 | 0.25 | 0.1 | 0.2 | 0.2 | 0.3 |
| 3-004 |  |  |  |  |  |  |
|  | 0.5 | 0.85 | 0.35 | 1.8 | NA | 1.5 |
| 3-008 |  |  |  |  |  |  |
|  | 0.85 | 0.85 | 0.8 | 0.8 | 1 | 1 |
| 3-009 |  |  |  |  |  |  |
|  | 0.7 | 0.65 | 1 | 0.8 | 1 | 1 |

## Impedance

| Impedance | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | |
| Period | | | | | | |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| 2-01 |  |  |  |  |  |  |
|  | 400 | 412 | 400 | 412 | 387 | 400 |
| 2-03 |  |  |  |  |  |  |
|  | 375 | 362 | 425 | 375 | 387 | 437 |
| 2-04 |  |  |  |  |  |  |
|  | 400 | 400 | 400 | 387 | 375 | 400 |
| 2-05 |  |  |  |  |  |  |
|  | 450 | 425 | 450 | 462 | 437 | 425 |
| 2-06 |  |  |  |  |  |  |
|  | 437 | 450 | 425 | 412 | 435 | 425 |
| 2-07 |  |  |  |  |  |  |
|  | 275 | 300 | 362 | 362 | 312 | 375 |
| 3-002 |  |  |  |  |  |  |
|  | 482 | 425 | 462 | 475 | 475 | 512 |
| 3-004 |  |  |  |  |  |  |
|  | 450 | 512 | 412 | 450 | NA | 487 |
| 3-008 |  |  |  |  |  |  |
|  | 350 | 375 | 337 | 387 | 362 | 362 |
| 3-009 |  |  |  |  |  |  |
|  | 287 | 362 | 300 | 362 | 287 | 325 |

## Stimulation Amplitude as set before treatment period

| Full analysis set | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
|  | 0 | 0.45 | 0 | 0.5 | 0 | 0.55 | 0 |
| 2-03 |  |  |  |  |  |  |  |
|  | 0 | 0.6 | 0 | 0.6 | 0 | 0.6 | 0 |
| 2-04 |  |  |  |  |  |  |  |
|  | 0 | 0.6 | 0 | 0.6 | 0 | 0.6 | 0 |
| 2-05 |  |  |  |  |  |  |  |
|  | 0 | 0.6 | 0 | 0.6 | 0 | 0.6 | 0 |
| 2-06 |  |  |  |  |  |  |  |
|  | 0 | 0.6 | 0 | 0.6 | 0 | 0.6 | 0 |
| 2-07 |  |  |  |  |  |  |  |
|  | 0 | 0.6 | 0 | 0.6 | 0 | 0.6 | 0 |
| 3-002 |  |  |  |  |  |  |  |
|  | 0 | 0.2 | 0 | 0.05 | 0 | 0.1 | 0 |
| 3-004 |  |  |  |  |  |  |  |
|  | 0 | 0.3 | 0 | 0.15 | 0 | 0.6 | 0 |
| 3-008 |  |  |  |  |  |  |  |
|  | 0 | 0.5 | 0 | 0.25 | 0 | 0.6 | 0 |
| 3-009 |  |  |  |  |  |  |  |
|  | 0 | 0.4 | 0 | 0.45 | 0 | 0.6 | 0 |

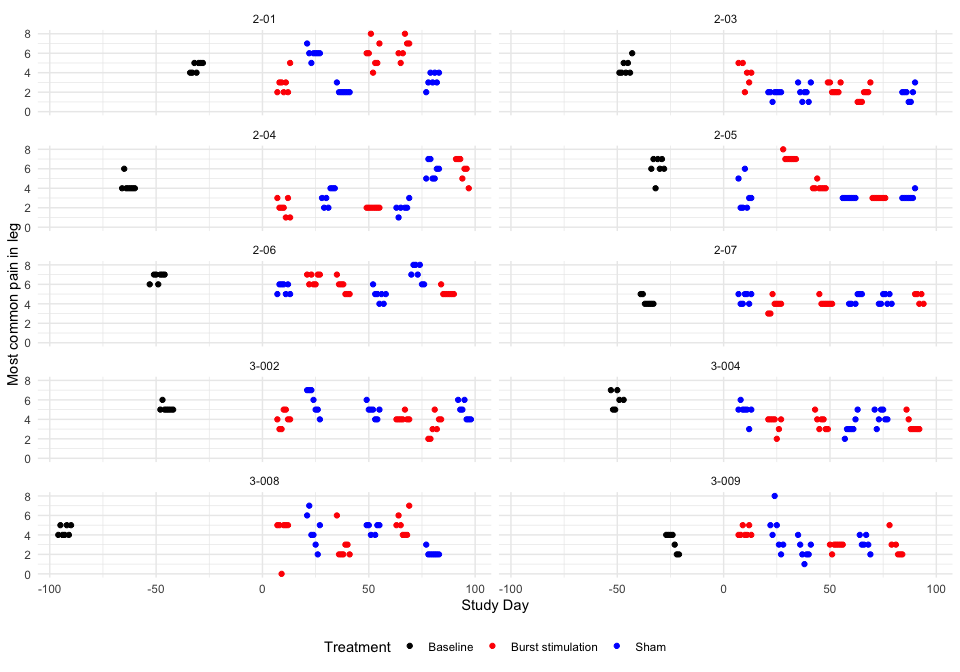
## Stimulation amplitude as registered after treatment period

| Stimulation Amplitude from previous period | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | |
|  | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |
|  | 0.45 | 0 | 0.5 | 0 | 0.55 | 0 |
| 2-03 |  |  |  |  |  |  |
|  | 0 | 0.6 | 0.6 | 0 | 0.6 | 0 |
| 2-04 |  |  |  |  |  |  |
|  | 0.6 | 0 | 0.6 | 0 | 0 | 0.6 |
| 2-05 |  |  |  |  |  |  |
|  | 0.6 | 0 | 0.6 | 0 | 0 | 0.6 |
| 2-06 |  |  |  |  |  |  |
|  | 0.6 | 0 | 0.6 | 0 | 0 | 0.6 |
| 2-07 |  |  |  |  |  |  |
|  | 0.6 | 0 | 0 | 0.6 | 0.6 | 0 |
| 3-002 |  |  |  |  |  |  |
|  | 0.2 | 0 | 0.05 | 0 | 0 | 0.1 |
| 3-004 |  |  |  |  |  |  |
|  | 0 | 0.3 | 0.15 | 0 | 0.6 | NA |
| 3-008 |  |  |  |  |  |  |
|  | 0 | 0.5 | 0.25 | 0 | 0.6 | NA |
| 3-009 |  |  |  |  |  |  |
|  | 0.4 | 0 | 0.45 | 0 | 0 | 0.6 |

# Analysis

## Primary outcome: Usual pain intensity in lower extremity (NRS)

### Plot



### Descriptive table

| Most common pain in leg | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 4.57 (0.53) | 2.86 (1.07) | 6.00 (0.58) | 5.86 (1.35) | 2.14 (0.38) | 6.50 (1.05) | 3.29 (0.76) |
| IQR | 1.00 | 1.00 | 0.00 | 1.50 | 0.00 | 1.00 | 1.00 |
| min - max | 4.00 - 5.00 | 2.00 - 5.00 | 5.00 - 7.00 | 4.00 - 8.00 | 2.00 - 3.00 | 5.00 - 8.00 | 2.00 - 4.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.57 (0.79) | 3.83 (1.17) | 1.86 (0.38) | 2.43 (0.53) | 2.00 (0.82) | 1.71 (0.76) | 1.86 (0.69) |
| IQR | 1.00 | 1.50 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 |
| min - max | 4.00 - 6.00 | 2.00 - 5.00 | 1.00 - 2.00 | 2.00 - 3.00 | 1.00 - 3.00 | 1.00 - 3.00 | 1.00 - 3.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.29 (0.76) | 2.00 (0.82) | 3.14 (0.90) | 2.00 (0.00) | 2.00 (0.63) | 6.00 (1.15) | 5.86 (0.90) |
| IQR | 0.00 | 1.00 | 1.50 | 0.00 | 0.00 | 1.50 | 1.50 |
| min - max | 4.00 - 6.00 | 1.00 - 3.00 | 2.00 - 4.00 | 2.00 - 2.00 | 1.00 - 3.00 | 4.00 - 7.00 | 5.00 - 7.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.14 (1.07) | 7.14 (0.38) | 3.29 (1.60) | 4.14 (0.38) | 3.00 (0.00) | 3.00 (0.00) | 3.14 (0.38) |
| IQR | 1.00 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| min - max | 4.00 - 7.00 | 7.00 - 8.00 | 2.00 - 6.00 | 4.00 - 5.00 | 3.00 - 3.00 | 3.00 - 3.00 | 3.00 - 4.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.71 (0.49) | 6.57 (0.53) | 5.57 (0.53) | 5.71 (0.76) | 4.86 (0.69) | 5.14 (0.38) | 7.14 (0.90) |
| IQR | 0.50 | 1.00 | 1.00 | 1.00 | 0.50 | 0.00 | 1.50 |
| min - max | 6.00 - 7.00 | 6.00 - 7.00 | 5.00 - 6.00 | 5.00 - 7.00 | 4.00 - 6.00 | 5.00 - 6.00 | 6.00 - 8.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 5 | 7 |
| Mean (sd) | 4.29 (0.49) | 3.86 (0.69) | 4.57 (0.53) | 4.14 (0.38) | 4.50 (0.55) | 4.60 (0.55) | 4.43 (0.53) |
| IQR | 0.50 | 0.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| min - max | 4.00 - 5.00 | 3.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.14 (0.38) | 4.00 (0.82) | 5.86 (1.21) | 4.14 (0.38) | 4.86 (0.69) | 3.29 (1.11) | 4.86 (0.90) |
| IQR | 0.00 | 1.00 | 2.00 | 0.00 | 0.50 | 1.50 | 1.50 |
| min - max | 5.00 - 6.00 | 3.00 - 5.00 | 4.00 - 7.00 | 4.00 - 5.00 | 4.00 - 6.00 | 2.00 - 5.00 | 4.00 - 6.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.00 (0.89) | 3.57 (0.79) | 4.86 (0.90) | 3.71 (0.76) | 3.29 (0.95) | 3.43 (0.79) | 4.29 (0.76) |
| IQR | 1.50 | 0.50 | 0.00 | 1.00 | 0.50 | 0.50 | 1.00 |
| min - max | 5.00 - 7.00 | 2.00 - 4.00 | 3.00 - 6.00 | 3.00 - 5.00 | 2.00 - 5.00 | 3.00 - 5.00 | 3.00 - 5.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.43 (0.53) | 4.17 (2.04) | 4.43 (1.72) | 2.86 (1.46) | 4.67 (0.52) | 5.00 (1.15) | 2.14 (0.38) |
| IQR | 1.00 | 0.00 | 2.00 | 1.00 | 0.75 | 1.50 | 0.00 |
| min - max | 4.00 - 5.00 | 0.00 - 5.00 | 2.00 - 7.00 | 2.00 - 6.00 | 4.00 - 5.00 | 4.00 - 7.00 | 2.00 - 3.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 3.29 (0.95) | 4.29 (0.49) | 4.29 (1.98) | 2.86 (0.38) | 2.43 (0.98) | 2.83 (1.17) | 3.17 (0.75) |
| IQR | 1.50 | 0.50 | 2.00 | 0.00 | 1.00 | 1.00 | 0.75 |
| min - max | 2.00 - 4.00 | 4.00 - 5.00 | 2.00 - 8.00 | 2.00 - 3.00 | 1.00 - 4.00 | 2.00 - 5.00 | 2.00 - 4.00 |

### Hypothesis test

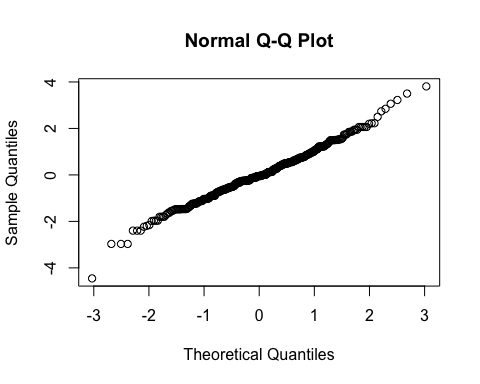
Most common pain in leg

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | -3.143 | 3.714 | 3.214 | 1.262 |
| 2-03 | 1.976 | 0.429 | -0.143 | 0.754 |
| 2-04 | -1.143 | 0.000 | 0.143 | -0.333 |
| 2-05 | 3.857 | 1.143 | -0.143 | 1.619 |
| 2-06 | 1.000 | 0.857 | -2.000 | -0.048 |
| 2-07 | -0.714 | -0.357 | 0.171 | -0.300 |
| 3-002 | -1.857 | -0.714 | -1.571 | -1.381 |
| 3-004 | -1.286 | 0.429 | -0.857 | -0.571 |
| 3-008 | -0.262 | -1.810 | 2.857 | 0.262 |
| 3-009 | 0.000 | 0.429 | -0.333 | 0.032 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.68.

### Treatment effect estimates

QQ-plot 

By subject

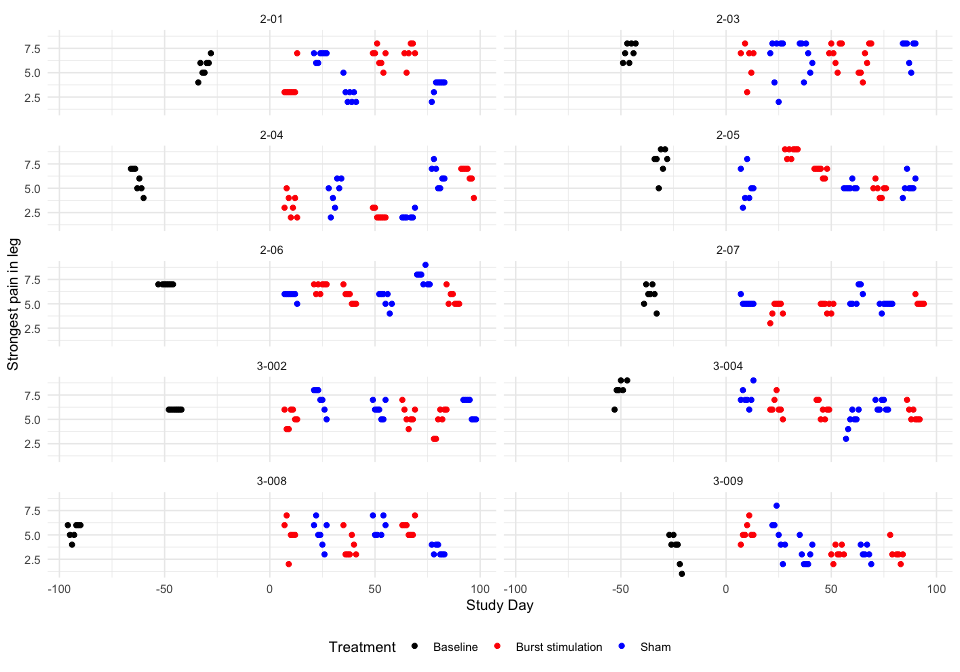
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | 1.032 | 0.28 | 0.000 | 0.483 | 1.581 |
| 2-03 | 0.626 | 0.28 | 0.025 | 0.077 | 1.175 |
| 2-04 | -0.273 | 0.28 | 0.329 | -0.822 | 0.276 |
| 2-05 | 1.382 | 0.28 | 0.000 | 0.833 | 1.931 |
| 2-06 | -0.020 | 0.28 | 0.943 | -0.569 | 0.529 |
| 2-07 | -0.249 | 0.28 | 0.375 | -0.798 | 0.300 |
| 3-002 | -1.141 | 0.28 | 0.000 | -1.690 | -0.592 |
| 3-004 | -0.461 | 0.28 | 0.100 | -1.010 | 0.088 |
| 3-008 | 0.298 | 0.28 | 0.287 | -0.251 | 0.847 |
| 3-009 | 0.063 | 0.28 | 0.823 | -0.486 | 0.612 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| 0.125 | 0.28 | 0.654 | -0.424 | 0.674 |

## Secondary outcome: Highest pain intensity in lower extremity (NRS)

### Plot



### Descriptive table

| Strongest pain in leg | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 5.57 (0.98) | 3.57 (1.51) | 6.71 (0.49) | 6.57 (0.98) | 2.86 (1.07) | 7.00 (1.10) | 3.57 (0.79) |
| IQR | 1.00 | 0.00 | 0.50 | 1.00 | 1.00 | 0.75 | 0.50 |
| min - max | 4.00 - 7.00 | 3.00 - 7.00 | 6.00 - 7.00 | 5.00 - 8.00 | 2.00 - 5.00 | 5.00 - 8.00 | 2.00 - 4.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 7.14 (0.90) | 6.17 (1.83) | 6.43 (2.44) | 7.00 (1.15) | 6.57 (1.62) | 6.14 (1.57) | 7.29 (1.25) |
| IQR | 1.50 | 1.50 | 2.50 | 1.50 | 2.50 | 2.50 | 1.00 |
| min - max | 6.00 - 8.00 | 3.00 - 8.00 | 2.00 - 8.00 | 5.00 - 8.00 | 4.00 - 8.00 | 4.00 - 8.00 | 5.00 - 8.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 5.86 (1.21) | 3.29 (1.11) | 4.43 (1.51) | 2.29 (0.49) | 2.17 (0.41) | 6.29 (1.11) | 6.29 (1.11) |
| IQR | 2.00 | 1.50 | 2.00 | 0.50 | 0.00 | 1.00 | 1.50 |
| min - max | 4.00 - 7.00 | 2.00 - 5.00 | 2.00 - 6.00 | 2.00 - 3.00 | 2.00 - 3.00 | 4.00 - 7.00 | 5.00 - 8.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 7.71 (1.38) | 8.71 (0.49) | 5.14 (1.77) | 6.71 (0.49) | 5.14 (0.38) | 4.86 (0.69) | 5.29 (0.95) |
| IQR | 1.00 | 0.50 | 2.00 | 0.50 | 0.00 | 0.50 | 0.50 |
| min - max | 5.00 - 9.00 | 8.00 - 9.00 | 3.00 - 8.00 | 6.00 - 7.00 | 5.00 - 6.00 | 4.00 - 6.00 | 4.00 - 7.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 7.00 (0.00) | 6.71 (0.49) | 5.86 (0.38) | 5.71 (0.76) | 5.43 (0.79) | 5.57 (0.79) | 7.71 (0.76) |
| IQR | 0.00 | 0.50 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| min - max | 7.00 - 7.00 | 6.00 - 7.00 | 5.00 - 6.00 | 5.00 - 7.00 | 4.00 - 6.00 | 5.00 - 7.00 | 7.00 - 9.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 5 | 7 |
| Mean (sd) | 5.86 (1.07) | 4.43 (0.79) | 5.14 (0.38) | 4.71 (0.49) | 5.83 (0.98) | 5.20 (0.45) | 4.86 (0.38) |
| IQR | 1.00 | 1.00 | 0.00 | 0.50 | 1.75 | 0.00 | 0.00 |
| min - max | 4.00 - 7.00 | 3.00 - 5.00 | 5.00 - 6.00 | 4.00 - 5.00 | 5.00 - 7.00 | 5.00 - 6.00 | 4.00 - 5.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.00 (0.00) | 5.14 (0.90) | 7.00 (1.15) | 5.43 (0.98) | 6.00 (0.82) | 4.86 (1.35) | 6.14 (1.07) |
| IQR | 0.00 | 1.50 | 1.50 | 1.00 | 1.00 | 2.00 | 2.00 |
| min - max | 6.00 - 6.00 | 4.00 - 6.00 | 5.00 - 8.00 | 4.00 - 7.00 | 5.00 - 7.00 | 3.00 - 6.00 | 5.00 - 7.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 8.00 (1.10) | 6.29 (0.95) | 7.29 (0.95) | 6.00 (0.82) | 4.86 (1.07) | 5.57 (0.79) | 6.43 (0.53) |
| IQR | 0.75 | 0.50 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 |
| min - max | 6.00 - 9.00 | 5.00 - 8.00 | 6.00 - 9.00 | 5.00 - 7.00 | 3.00 - 6.00 | 5.00 - 7.00 | 6.00 - 7.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 5.43 (0.79) | 5.00 (1.67) | 5.14 (1.35) | 3.86 (1.21) | 5.83 (0.98) | 5.71 (0.76) | 3.43 (0.53) |
| IQR | 1.00 | 0.75 | 1.50 | 1.50 | 1.75 | 1.00 | 1.00 |
| min - max | 4.00 - 6.00 | 2.00 - 7.00 | 3.00 - 7.00 | 3.00 - 6.00 | 5.00 - 7.00 | 5.00 - 7.00 | 3.00 - 4.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 3.57 (1.51) | 5.29 (0.95) | 5.00 (1.91) | 3.14 (0.69) | 3.00 (1.15) | 3.17 (0.98) | 3.17 (0.75) |
| IQR | 1.50 | 0.50 | 2.00 | 0.50 | 1.50 | 0.00 | 0.75 |
| min - max | 1.00 - 5.00 | 4.00 - 7.00 | 2.00 - 8.00 | 2.00 - 4.00 | 2.00 - 5.00 | 2.00 - 5.00 | 2.00 - 4.00 |

### Hypothesis test

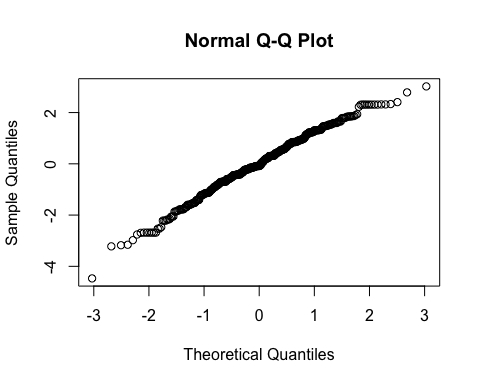
Strongest pain in leg

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | -3.143 | 3.714 | 3.429 | 1.333 |
| 2-03 | -0.262 | 0.429 | -1.143 | -0.325 |
| 2-04 | -1.143 | 0.119 | 0.000 | -0.341 |
| 2-05 | 3.571 | 1.571 | -0.429 | 1.571 |
| 2-06 | 0.857 | 0.286 | -2.143 | -0.333 |
| 2-07 | -0.714 | -1.119 | 0.343 | -0.497 |
| 3-002 | -1.857 | -0.571 | -1.286 | -1.238 |
| 3-004 | -1.000 | 1.143 | -0.857 | -0.238 |
| 3-008 | -0.143 | -1.976 | 2.286 | 0.056 |
| 3-009 | 0.286 | 0.143 | 0.000 | 0.143 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.97.

### Treatment effect estimates

QQ-plot 

By subject

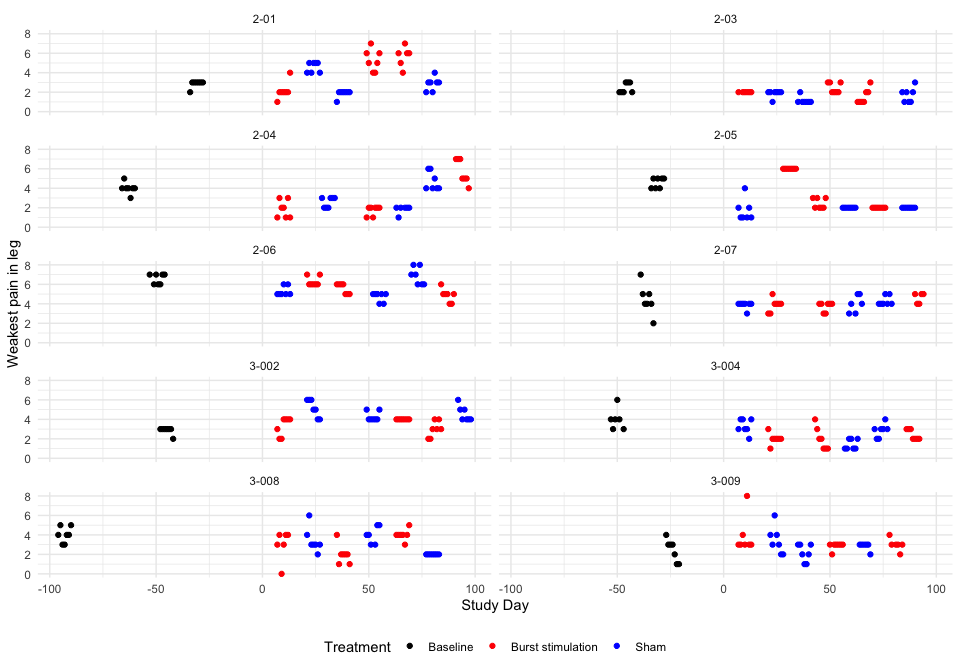
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | 0.996 | 0.267 | 0.000 | 0.474 | 1.518 |
| 2-03 | -0.250 | 0.267 | 0.348 | -0.773 | 0.272 |
| 2-04 | -0.285 | 0.267 | 0.285 | -0.807 | 0.237 |
| 2-05 | 1.231 | 0.267 | 0.000 | 0.709 | 1.753 |
| 2-06 | -0.259 | 0.267 | 0.332 | -0.781 | 0.264 |
| 2-07 | -0.398 | 0.267 | 0.136 | -0.920 | 0.125 |
| 3-002 | -0.966 | 0.267 | 0.000 | -1.488 | -0.444 |
| 3-004 | -0.184 | 0.267 | 0.490 | -0.706 | 0.338 |
| 3-008 | 0.094 | 0.267 | 0.723 | -0.428 | 0.617 |
| 3-009 | 0.118 | 0.267 | 0.657 | -0.404 | 0.641 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| 0.011 | 0.267 | 0.968 | -0.512 | 0.533 |

## Secondary outcome: Lowest pain intensity in lower extremity (NRS)

### Plot



### Descriptive table

| Weakest pain in leg | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 2.86 (0.38) | 2.14 (0.90) | 4.57 (0.53) | 5.29 (1.11) | 1.86 (0.38) | 5.67 (1.03) | 2.86 (0.69) |
| IQR | 0.00 | 0.00 | 1.00 | 1.50 | 0.00 | 0.75 | 0.50 |
| min - max | 2.00 - 3.00 | 1.00 - 4.00 | 4.00 - 5.00 | 4.00 - 7.00 | 1.00 - 2.00 | 4.00 - 7.00 | 2.00 - 4.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 2.43 (0.53) | 2.00 (0.00) | 1.86 (0.38) | 2.43 (0.53) | 1.14 (0.38) | 1.57 (0.79) | 1.71 (0.76) |
| IQR | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 |
| min - max | 2.00 - 3.00 | 2.00 - 2.00 | 1.00 - 2.00 | 2.00 - 3.00 | 1.00 - 2.00 | 1.00 - 3.00 | 1.00 - 3.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.00 (0.58) | 1.86 (0.90) | 2.57 (0.53) | 1.71 (0.49) | 1.83 (0.41) | 5.71 (1.25) | 4.71 (0.95) |
| IQR | 0.00 | 1.50 | 1.00 | 0.50 | 0.00 | 2.00 | 1.50 |
| min - max | 3.00 - 5.00 | 1.00 - 3.00 | 2.00 - 3.00 | 1.00 - 2.00 | 1.00 - 2.00 | 4.00 - 7.00 | 4.00 - 6.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.57 (0.53) | 6.00 (0.00) | 1.71 (1.11) | 2.43 (0.53) | 2.00 (0.00) | 2.00 (0.00) | 2.00 (0.00) |
| IQR | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 |
| min - max | 4.00 - 5.00 | 6.00 - 6.00 | 1.00 - 4.00 | 2.00 - 3.00 | 2.00 - 2.00 | 2.00 - 2.00 | 2.00 - 2.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.57 (0.53) | 6.29 (0.49) | 5.29 (0.49) | 5.57 (0.53) | 4.71 (0.49) | 4.86 (0.69) | 6.86 (0.90) |
| IQR | 1.00 | 0.50 | 0.50 | 1.00 | 0.50 | 0.50 | 1.50 |
| min - max | 6.00 - 7.00 | 6.00 - 7.00 | 5.00 - 6.00 | 5.00 - 6.00 | 4.00 - 5.00 | 4.00 - 6.00 | 6.00 - 8.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 5 | 7 |
| Mean (sd) | 4.43 (1.51) | 3.86 (0.69) | 3.86 (0.38) | 3.71 (0.49) | 4.00 (0.89) | 4.60 (0.55) | 4.29 (0.49) |
| IQR | 1.00 | 0.50 | 0.00 | 0.50 | 1.50 | 1.00 | 0.50 |
| min - max | 2.00 - 7.00 | 3.00 - 5.00 | 3.00 - 4.00 | 3.00 - 4.00 | 3.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 2.86 (0.38) | 3.29 (0.95) | 5.14 (0.90) | 4.00 (0.00) | 4.29 (0.49) | 3.00 (0.82) | 4.57 (0.79) |
| IQR | 0.00 | 1.50 | 1.50 | 0.00 | 0.50 | 1.00 | 1.00 |
| min - max | 2.00 - 3.00 | 2.00 - 4.00 | 4.00 - 6.00 | 4.00 - 4.00 | 4.00 - 5.00 | 2.00 - 4.00 | 4.00 - 6.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.00 (1.10) | 2.00 (0.58) | 3.29 (0.76) | 2.00 (1.15) | 1.43 (0.53) | 2.43 (0.53) | 2.86 (0.69) |
| IQR | 0.75 | 0.00 | 1.00 | 1.50 | 1.00 | 1.00 | 0.50 |
| min - max | 3.00 - 6.00 | 1.00 - 3.00 | 2.00 - 4.00 | 1.00 - 4.00 | 1.00 - 2.00 | 2.00 - 3.00 | 2.00 - 4.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.00 (0.82) | 3.00 (1.55) | 3.43 (1.27) | 2.00 (1.00) | 4.00 (0.89) | 4.00 (0.58) | 2.00 (0.00) |
| IQR | 1.00 | 1.00 | 0.50 | 0.50 | 1.50 | 0.00 | 0.00 |
| min - max | 3.00 - 5.00 | 0.00 - 4.00 | 2.00 - 6.00 | 1.00 - 4.00 | 3.00 - 5.00 | 3.00 - 5.00 | 2.00 - 2.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 2.43 (1.13) | 3.86 (1.86) | 3.43 (1.40) | 2.86 (0.38) | 2.14 (0.90) | 3.00 (0.63) | 2.83 (0.41) |
| IQR | 1.50 | 0.50 | 1.50 | 0.00 | 1.50 | 0.00 | 0.00 |
| min - max | 1.00 - 4.00 | 3.00 - 8.00 | 2.00 - 6.00 | 2.00 - 3.00 | 1.00 - 3.00 | 2.00 - 4.00 | 2.00 - 3.00 |

### Hypothesis test

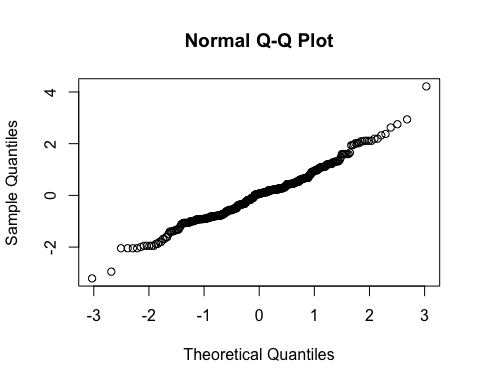
Weakest pain in leg

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | -2.429 | 3.429 | 2.810 | 1.270 |
| 2-03 | 0.143 | 1.286 | -0.143 | 0.429 |
| 2-04 | -0.714 | -0.119 | 1.000 | 0.056 |
| 2-05 | 4.286 | 0.429 | 0.000 | 1.572 |
| 2-06 | 1.000 | 0.857 | -2.000 | -0.048 |
| 2-07 | 0.000 | -0.286 | 0.314 | 0.009 |
| 3-002 | -1.857 | -0.286 | -1.571 | -1.238 |
| 3-004 | -1.286 | 0.571 | -0.429 | -0.381 |
| 3-008 | -0.429 | -2.000 | 2.000 | -0.143 |
| 3-009 | 0.429 | 0.714 | 0.167 | 0.437 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.49.

### Treatment effect estimates

QQ-plot 

By subject

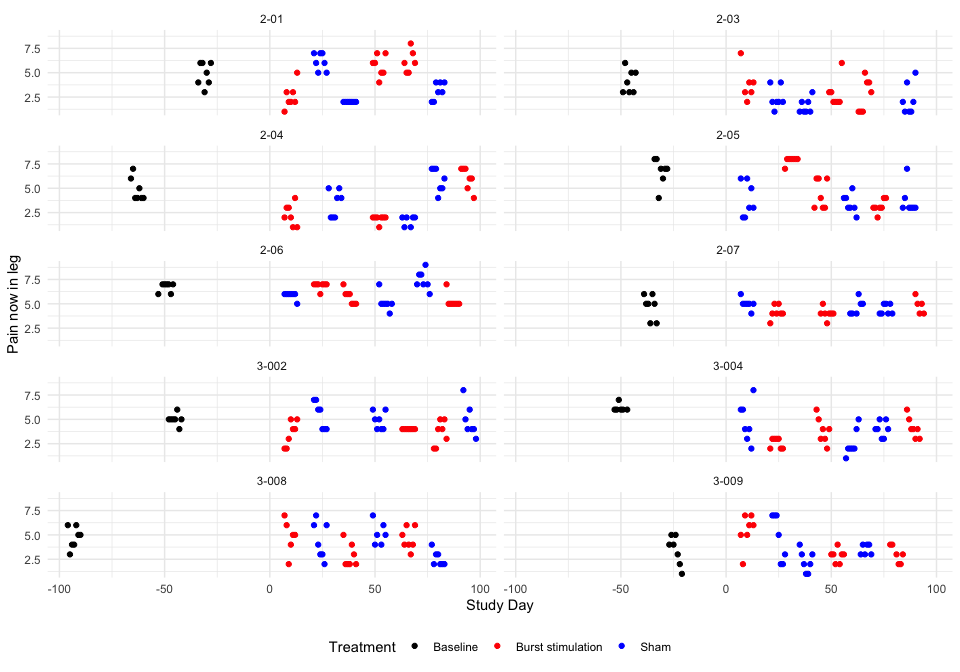
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | 1.062 | 0.252 | 0.000 | 0.568 | 1.555 |
| 2-03 | 0.399 | 0.252 | 0.113 | -0.094 | 0.893 |
| 2-04 | 0.076 | 0.252 | 0.762 | -0.417 | 0.570 |
| 2-05 | 1.355 | 0.252 | 0.000 | 0.862 | 1.849 |
| 2-06 | -0.009 | 0.252 | 0.972 | -0.502 | 0.484 |
| 2-07 | 0.031 | 0.252 | 0.901 | -0.462 | 0.524 |
| 3-002 | -1.012 | 0.252 | 0.000 | -1.505 | -0.519 |
| 3-004 | -0.290 | 0.252 | 0.249 | -0.783 | 0.203 |
| 3-008 | -0.037 | 0.252 | 0.883 | -0.530 | 0.456 |
| 3-009 | 0.409 | 0.252 | 0.104 | -0.084 | 0.902 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| 0.198 | 0.252 | 0.432 | -0.296 | 0.691 |

## Secondary outcome: Current pain intensity in lower extremity (NRS)

### Plot



### Descriptive table

| Pain now in leg | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 4.86 (1.21) | 2.57 (1.27) | 6.14 (0.90) | 5.71 (1.11) | 2.00 (0.00) | 6.17 (1.17) | 3.14 (0.90) |
| IQR | 2.00 | 1.00 | 1.50 | 1.50 | 0.00 | 1.50 | 1.50 |
| min - max | 3.00 - 6.00 | 1.00 - 5.00 | 5.00 - 7.00 | 4.00 - 7.00 | 2.00 - 2.00 | 5.00 - 8.00 | 2.00 - 4.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.14 (1.21) | 3.83 (1.72) | 2.43 (1.13) | 2.86 (1.46) | 1.57 (0.79) | 2.71 (1.70) | 2.29 (1.60) |
| IQR | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.00 | 2.00 |
| min - max | 3.00 - 6.00 | 2.00 - 7.00 | 1.00 - 4.00 | 2.00 - 6.00 | 1.00 - 3.00 | 1.00 - 5.00 | 1.00 - 5.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.86 (1.21) | 2.29 (1.11) | 3.43 (1.40) | 1.86 (0.38) | 1.67 (0.52) | 6.00 (1.15) | 5.86 (1.21) |
| IQR | 1.50 | 1.50 | 2.50 | 0.00 | 0.75 | 1.50 | 2.00 |
| min - max | 4.00 - 7.00 | 1.00 - 4.00 | 2.00 - 5.00 | 1.00 - 2.00 | 1.00 - 2.00 | 4.00 - 7.00 | 4.00 - 7.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.71 (1.38) | 7.86 (0.38) | 3.86 (1.77) | 4.43 (1.51) | 3.43 (0.98) | 3.14 (0.69) | 3.71 (1.50) |
| IQR | 1.00 | 0.00 | 3.00 | 3.00 | 1.00 | 0.50 | 0.50 |
| min - max | 4.00 - 8.00 | 7.00 - 8.00 | 2.00 - 6.00 | 3.00 - 6.00 | 2.00 - 5.00 | 2.00 - 4.00 | 3.00 - 7.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.71 (0.49) | 6.86 (0.38) | 5.86 (0.38) | 5.71 (0.76) | 5.14 (0.90) | 5.29 (0.76) | 7.43 (0.98) |
| IQR | 0.50 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| min - max | 6.00 - 7.00 | 6.00 - 7.00 | 5.00 - 6.00 | 5.00 - 7.00 | 4.00 - 7.00 | 5.00 - 7.00 | 6.00 - 9.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 5 | 7 |
| Mean (sd) | 4.71 (1.25) | 4.14 (0.69) | 5.00 (0.58) | 4.00 (0.58) | 4.67 (0.82) | 4.80 (0.84) | 4.43 (0.53) |
| IQR | 1.50 | 0.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| min - max | 3.00 - 6.00 | 3.00 - 5.00 | 4.00 - 6.00 | 3.00 - 5.00 | 4.00 - 6.00 | 4.00 - 6.00 | 4.00 - 5.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.00 (0.58) | 3.57 (1.27) | 5.43 (1.40) | 4.00 (0.00) | 4.86 (0.90) | 3.57 (1.27) | 4.86 (1.68) |
| IQR | 0.00 | 2.00 | 2.50 | 0.00 | 1.50 | 2.00 | 1.50 |
| min - max | 4.00 - 6.00 | 2.00 - 5.00 | 4.00 - 7.00 | 4.00 - 4.00 | 4.00 - 6.00 | 2.00 - 5.00 | 3.00 - 8.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.17 (0.41) | 2.57 (0.53) | 4.71 (2.06) | 3.86 (1.35) | 2.57 (1.40) | 4.14 (1.07) | 4.00 (0.82) |
| IQR | 0.00 | 1.00 | 2.50 | 1.50 | 1.00 | 1.00 | 1.00 |
| min - max | 6.00 - 7.00 | 2.00 - 3.00 | 2.00 - 8.00 | 2.00 - 6.00 | 1.00 - 5.00 | 3.00 - 6.00 | 3.00 - 5.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.71 (1.11) | 4.83 (1.72) | 4.43 (1.90) | 2.86 (1.21) | 5.17 (1.17) | 4.57 (1.13) | 2.57 (0.79) |
| IQR | 1.50 | 1.50 | 3.00 | 1.50 | 1.50 | 1.50 | 1.00 |
| min - max | 3.00 - 6.00 | 2.00 - 7.00 | 2.00 - 7.00 | 2.00 - 5.00 | 4.00 - 7.00 | 3.00 - 6.00 | 2.00 - 4.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 3.43 (1.51) | 5.43 (1.72) | 4.71 (2.36) | 2.86 (0.69) | 2.29 (1.11) | 3.00 (0.89) | 3.50 (0.55) |
| IQR | 2.00 | 1.50 | 4.50 | 0.50 | 1.50 | 1.50 | 1.00 |
| min - max | 1.00 - 5.00 | 2.00 - 7.00 | 2.00 - 7.00 | 2.00 - 4.00 | 1.00 - 4.00 | 2.00 - 4.00 | 3.00 - 4.00 |

### Hypothesis test

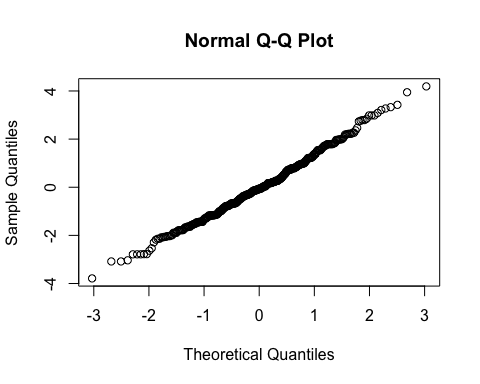
Pain now in leg

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | -3.571 | 3.714 | 3.024 | 1.056 |
| 2-03 | 1.405 | 1.286 | 0.429 | 1.040 |
| 2-04 | -1.143 | 0.190 | 0.143 | -0.270 |
| 2-05 | 4.000 | 1.000 | -0.571 | 1.476 |
| 2-06 | 1.000 | 0.571 | -2.143 | -0.191 |
| 2-07 | -0.857 | -0.667 | 0.371 | -0.384 |
| 3-002 | -1.857 | -0.857 | -1.286 | -1.333 |
| 3-004 | -2.143 | 1.286 | 0.143 | -0.238 |
| 3-008 | 0.405 | -2.310 | 2.000 | 0.032 |
| 3-009 | 0.714 | 0.571 | -0.500 | 0.262 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.65.

### Treatment effect estimates

QQ-plot 

By subject

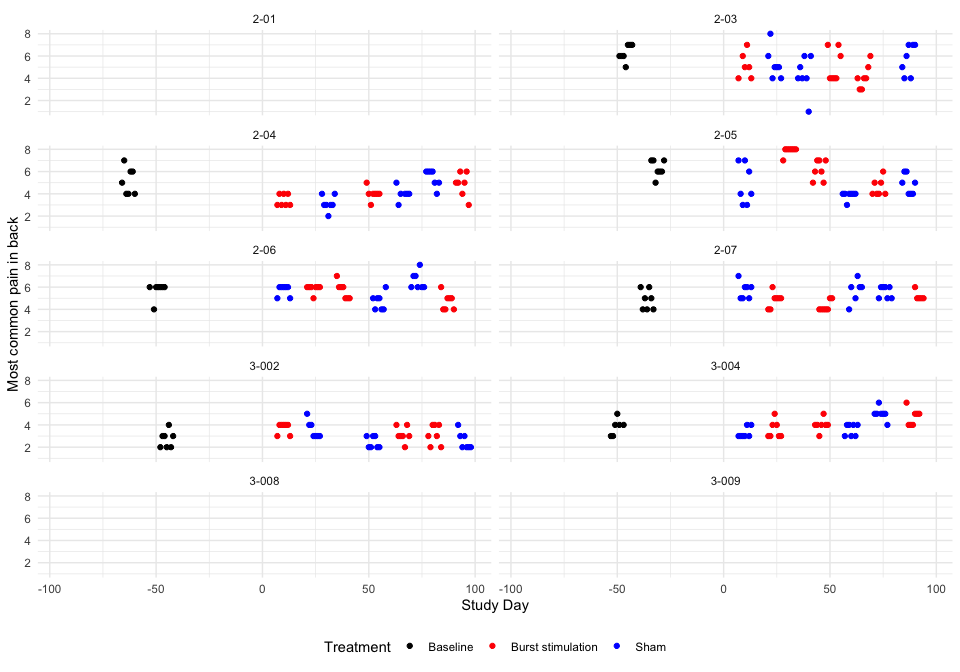
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | 0.771 | 0.265 | 0.004 | 0.252 | 1.291 |
| 2-03 | 0.795 | 0.265 | 0.003 | 0.275 | 1.314 |
| 2-04 | -0.178 | 0.265 | 0.502 | -0.698 | 0.342 |
| 2-05 | 1.125 | 0.265 | 0.000 | 0.606 | 1.645 |
| 2-06 | -0.103 | 0.265 | 0.698 | -0.623 | 0.417 |
| 2-07 | -0.261 | 0.265 | 0.324 | -0.781 | 0.258 |
| 3-002 | -0.945 | 0.265 | 0.000 | -1.465 | -0.425 |
| 3-004 | -0.138 | 0.265 | 0.603 | -0.658 | 0.382 |
| 3-008 | 0.102 | 0.265 | 0.700 | -0.417 | 0.622 |
| 3-009 | 0.257 | 0.265 | 0.332 | -0.263 | 0.777 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| 0.143 | 0.265 | 0.59 | -0.377 | 0.663 |

## Secondary outcome: Usual pain intensity in the back (NRS)

### Plot



### Descriptive table

| Most common pain in back | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean (sd) | NA | NA | NA | NA | NA | NA | NA |
| IQR | NA | NA | NA | NA | NA | NA | NA |
| min - max | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.29 (0.76) | 5.17 (1.17) | 5.29 (1.38) | 5.14 (1.46) | 4.29 (1.70) | 4.14 (1.07) | 5.71 (1.38) |
| IQR | 1.00 | 1.50 | 1.00 | 2.50 | 1.50 | 1.00 | 2.50 |
| min - max | 5.00 - 7.00 | 4.00 - 7.00 | 4.00 - 8.00 | 4.00 - 7.00 | 1.00 - 6.00 | 3.00 - 6.00 | 4.00 - 7.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 5.14 (1.21) | 3.43 (0.53) | 3.14 (0.69) | 4.00 (0.58) | 4.00 (0.63) | 4.86 (1.07) | 5.43 (0.79) |
| IQR | 2.00 | 1.00 | 0.50 | 0.00 | 0.00 | 1.00 | 1.00 |
| min - max | 4.00 - 7.00 | 3.00 - 4.00 | 2.00 - 4.00 | 3.00 - 5.00 | 3.00 - 5.00 | 3.00 - 6.00 | 4.00 - 6.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.29 (0.76) | 7.86 (0.38) | 4.86 (1.77) | 6.14 (0.90) | 3.86 (0.38) | 4.57 (0.79) | 4.86 (0.90) |
| IQR | 1.00 | 0.00 | 3.00 | 1.50 | 0.00 | 1.00 | 1.50 |
| min - max | 5.00 - 7.00 | 7.00 - 8.00 | 3.00 - 7.00 | 5.00 - 7.00 | 3.00 - 4.00 | 4.00 - 6.00 | 4.00 - 6.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.71 (0.76) | 5.86 (0.38) | 5.71 (0.49) | 5.71 (0.76) | 4.71 (0.76) | 4.71 (0.76) | 6.57 (0.79) |
| IQR | 0.00 | 0.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 |
| min - max | 4.00 - 6.00 | 5.00 - 6.00 | 5.00 - 6.00 | 5.00 - 7.00 | 4.00 - 6.00 | 4.00 - 6.00 | 6.00 - 8.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 5 | 7 |
| Mean (sd) | 4.86 (0.90) | 4.86 (0.69) | 5.71 (0.76) | 4.29 (0.49) | 5.67 (1.03) | 5.20 (0.45) | 5.57 (0.53) |
| IQR | 1.50 | 0.50 | 1.00 | 0.50 | 0.75 | 0.00 | 1.00 |
| min - max | 4.00 - 6.00 | 4.00 - 6.00 | 5.00 - 7.00 | 4.00 - 5.00 | 4.00 - 7.00 | 5.00 - 6.00 | 5.00 - 6.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 2.71 (0.76) | 3.71 (0.49) | 3.57 (0.79) | 3.14 (0.69) | 2.43 (0.53) | 3.14 (0.90) | 2.57 (0.79) |
| IQR | 1.00 | 0.50 | 1.00 | 0.50 | 1.00 | 1.50 | 1.00 |
| min - max | 2.00 - 4.00 | 3.00 - 4.00 | 3.00 - 5.00 | 2.00 - 4.00 | 2.00 - 3.00 | 2.00 - 4.00 | 2.00 - 4.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 3.83 (0.75) | 3.57 (0.79) | 3.29 (0.49) | 4.00 (0.58) | 3.57 (0.53) | 4.71 (0.76) | 5.00 (0.58) |
| IQR | 0.75 | 1.00 | 0.50 | 0.00 | 1.00 | 1.00 | 0.00 |
| min - max | 3.00 - 5.00 | 3.00 - 5.00 | 3.00 - 4.00 | 3.00 - 5.00 | 3.00 - 4.00 | 4.00 - 6.00 | 4.00 - 6.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean (sd) | NA | NA | NA | NA | NA | NA | NA |
| IQR | NA | NA | NA | NA | NA | NA | NA |
| min - max | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf |
| 3-009 |  |  |  |  |  |  |  |
| n | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean (sd) | NA | NA | NA | NA | NA | NA | NA |
| IQR | NA | NA | NA | NA | NA | NA | NA |
| min - max | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf | Inf - -Inf |

### Hypothesis test

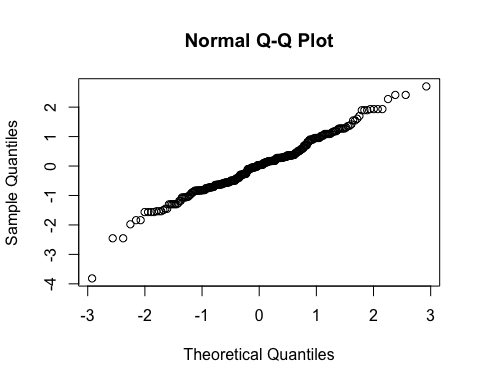
Most common pain in back

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | NaN | NaN | NaN | NaN |
| 2-03 | -0.119 | 0.857 | -1.571 | -0.278 |
| 2-04 | 0.286 | 0.000 | -0.571 | -0.095 |
| 2-05 | 3.000 | 2.286 | -0.286 | 1.667 |
| 2-06 | 0.143 | 1.000 | -1.857 | -0.238 |
| 2-07 | -0.857 | -1.381 | -0.371 | -0.870 |
| 3-002 | 0.143 | 0.714 | 0.571 | 0.476 |
| 3-004 | 0.286 | 0.429 | -0.286 | 0.143 |
| 3-008 | NaN | NaN | NaN | NaN |
| 3-009 | NaN | NaN | NaN | NaN |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.65.

### Treatment effect estimates

QQ-plot 

By subject

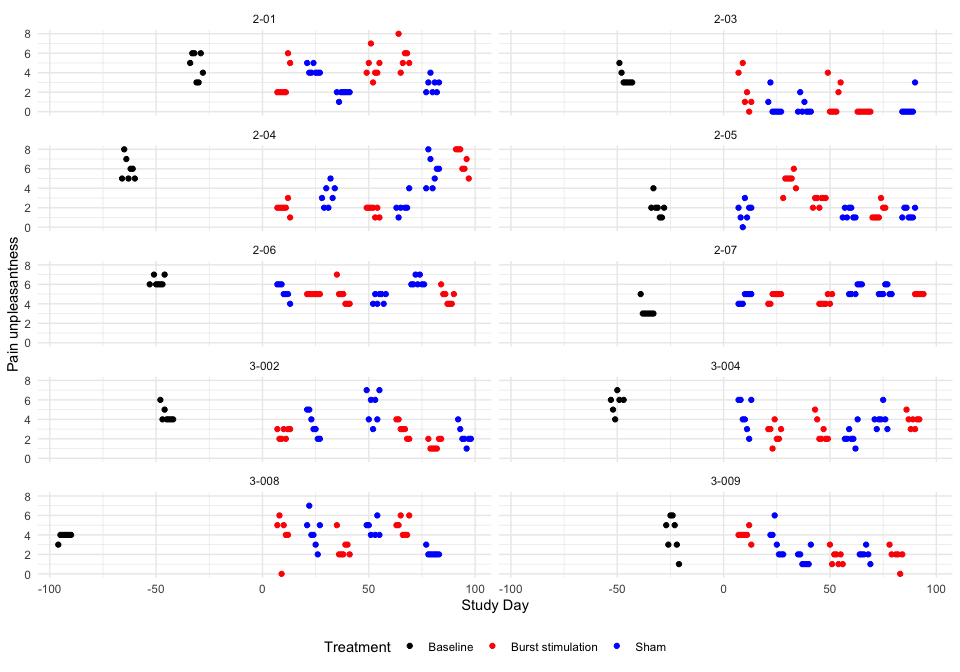
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-03 | -0.230 | 0.303 | 0.449 | -0.824 | 0.365 |
| 2-04 | -0.069 | 0.303 | 0.821 | -0.663 | 0.526 |
| 2-05 | 1.459 | 0.303 | 0.000 | 0.865 | 2.054 |
| 2-06 | -0.191 | 0.303 | 0.529 | -0.786 | 0.404 |
| 2-07 | -0.743 | 0.303 | 0.014 | -1.337 | -0.148 |
| 3-002 | 0.428 | 0.303 | 0.159 | -0.167 | 1.022 |
| 3-004 | 0.139 | 0.303 | 0.647 | -0.456 | 0.734 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| 0.124 | 0.303 | 0.682 | -0.471 | 0.719 |

## Secondary outcome: Pain unpleasantness (NRS)

### Plot



### Descriptive table

| Pain unpleasantness | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 4.71 (1.38) | 3.00 (1.73) | 4.29 (0.49) | 4.57 (1.27) | 1.86 (0.38) | 5.67 (1.37) | 2.71 (0.76) |
| IQR | 2.50 | 1.50 | 0.50 | 1.00 | 0.00 | 1.00 | 1.00 |
| min - max | 3.00 - 6.00 | 2.00 - 6.00 | 4.00 - 5.00 | 3.00 - 7.00 | 1.00 - 2.00 | 4.00 - 8.00 | 2.00 - 4.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 3.43 (0.79) | 2.17 (1.94) | 0.57 (1.13) | 1.29 (1.70) | 0.43 (0.79) | 0.00 (0.00) | 0.43 (1.13) |
| IQR | 0.50 | 2.50 | 0.50 | 2.50 | 0.50 | 0.00 | 0.00 |
| min - max | 3.00 - 5.00 | 0.00 - 5.00 | 0.00 - 3.00 | 0.00 - 4.00 | 0.00 - 2.00 | 0.00 - 0.00 | 0.00 - 3.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 6.00 (1.15) | 2.00 (0.58) | 3.29 (1.11) | 1.71 (0.49) | 2.17 (0.98) | 6.86 (1.21) | 5.71 (1.50) |
| IQR | 1.50 | 0.00 | 1.50 | 0.50 | 0.00 | 2.00 | 2.00 |
| min - max | 5.00 - 8.00 | 1.00 - 3.00 | 2.00 - 5.00 | 1.00 - 2.00 | 1.00 - 4.00 | 5.00 - 8.00 | 4.00 - 8.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 2.00 (1.00) | 4.71 (0.95) | 1.57 (0.98) | 2.71 (0.49) | 1.43 (0.53) | 1.57 (0.79) | 1.43 (0.53) |
| IQR | 0.50 | 0.50 | 1.00 | 0.50 | 1.00 | 1.00 | 1.00 |
| min - max | 1.00 - 4.00 | 3.00 - 6.00 | 0.00 - 3.00 | 2.00 - 3.00 | 1.00 - 2.00 | 1.00 - 3.00 | 1.00 - 2.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 6.29 (0.49) | 5.00 (0.00) | 5.29 (0.76) | 4.86 (1.07) | 4.57 (0.53) | 4.71 (0.76) | 6.29 (0.49) |
| IQR | 0.50 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.50 |
| min - max | 6.00 - 7.00 | 5.00 - 5.00 | 4.00 - 6.00 | 4.00 - 7.00 | 4.00 - 5.00 | 4.00 - 6.00 | 6.00 - 7.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 5 | 7 |
| Mean (sd) | 3.29 (0.76) | 4.71 (0.49) | 4.57 (0.53) | 4.29 (0.49) | 5.50 (0.55) | 5.00 (0.00) | 5.29 (0.49) |
| IQR | 0.00 | 0.50 | 1.00 | 0.50 | 1.00 | 0.00 | 0.50 |
| min - max | 3.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 5.00 - 6.00 | 5.00 - 5.00 | 5.00 - 6.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.43 (0.79) | 2.57 (0.53) | 3.43 (1.27) | 3.00 (0.82) | 5.29 (1.60) | 1.43 (0.53) | 2.29 (0.95) |
| IQR | 0.50 | 1.00 | 2.00 | 1.00 | 2.50 | 1.00 | 0.50 |
| min - max | 4.00 - 6.00 | 2.00 - 3.00 | 2.00 - 5.00 | 2.00 - 4.00 | 3.00 - 7.00 | 1.00 - 2.00 | 1.00 - 4.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.67 (1.03) | 2.57 (0.98) | 4.43 (1.62) | 2.86 (1.21) | 2.29 (0.95) | 3.86 (0.69) | 4.00 (1.00) |
| IQR | 0.75 | 1.00 | 2.50 | 1.50 | 0.50 | 0.50 | 0.50 |
| min - max | 4.00 - 7.00 | 1.00 - 4.00 | 2.00 - 6.00 | 2.00 - 5.00 | 1.00 - 4.00 | 3.00 - 5.00 | 3.00 - 6.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 3.86 (0.38) | 4.00 (2.10) | 4.29 (1.60) | 2.71 (1.11) | 4.67 (0.82) | 4.86 (0.90) | 2.14 (0.38) |
| IQR | 0.00 | 1.00 | 1.50 | 1.00 | 1.00 | 1.50 | 0.00 |
| min - max | 3.00 - 4.00 | 0.00 - 6.00 | 2.00 - 7.00 | 2.00 - 5.00 | 4.00 - 6.00 | 4.00 - 6.00 | 2.00 - 3.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 4.14 (1.86) | 4.00 (0.58) | 3.29 (1.50) | 1.71 (0.76) | 1.57 (0.79) | 1.83 (0.98) | 2.00 (0.63) |
| IQR | 2.50 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 0.00 |
| min - max | 1.00 - 6.00 | 3.00 - 5.00 | 2.00 - 6.00 | 1.00 - 3.00 | 1.00 - 3.00 | 0.00 - 3.00 | 1.00 - 3.00 |

### Hypothesis test

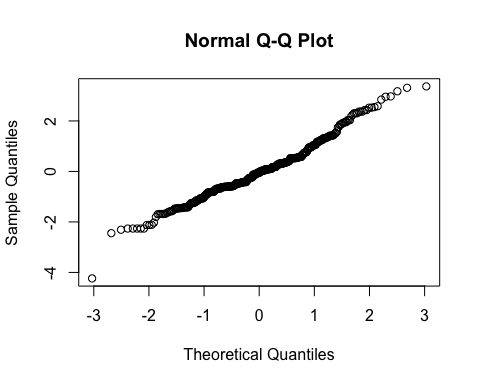
Pain unpleasantness

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | -1.286 | 2.714 | 2.952 | 1.460 |
| 2-03 | 1.595 | 0.857 | -0.429 | 0.674 |
| 2-04 | -1.286 | -0.452 | 1.143 | -0.198 |
| 2-05 | 3.143 | 1.286 | 0.143 | 1.524 |
| 2-06 | -0.286 | 0.286 | -1.571 | -0.524 |
| 2-07 | 0.143 | -1.214 | -0.286 | -0.452 |
| 3-002 | -0.857 | -2.286 | -0.857 | -1.333 |
| 3-004 | -1.857 | 0.571 | -0.143 | -0.476 |
| 3-008 | -0.286 | -1.952 | 2.714 | 0.159 |
| 3-009 | 0.714 | 0.143 | -0.167 | 0.230 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.69.

### Treatment effect estimates

QQ-plot 

By subject

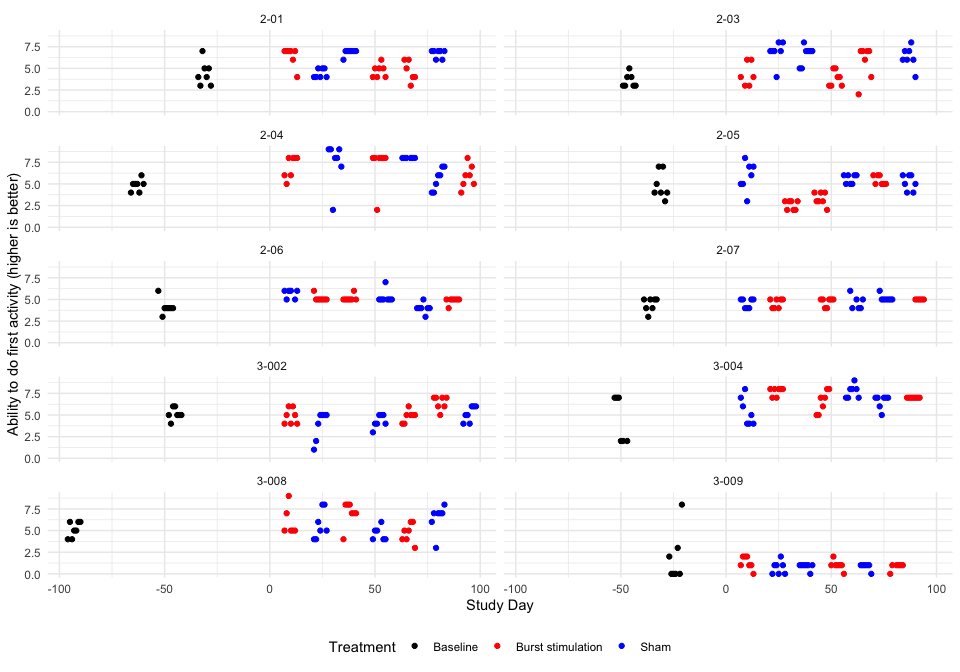
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | 1.213 | 0.285 | 0.000 | 0.655 | 1.771 |
| 2-03 | 0.566 | 0.285 | 0.047 | 0.008 | 1.124 |
| 2-04 | -0.150 | 0.285 | 0.600 | -0.708 | 0.409 |
| 2-05 | 1.306 | 0.285 | 0.000 | 0.748 | 1.864 |
| 2-06 | -0.426 | 0.285 | 0.135 | -0.985 | 0.132 |
| 2-07 | -0.352 | 0.285 | 0.217 | -0.910 | 0.206 |
| 3-002 | -1.111 | 0.285 | 0.000 | -1.669 | -0.553 |
| 3-004 | -0.386 | 0.285 | 0.175 | -0.944 | 0.172 |
| 3-008 | 0.209 | 0.285 | 0.464 | -0.350 | 0.767 |
| 3-009 | 0.227 | 0.285 | 0.425 | -0.331 | 0.786 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| 0.109 | 0.285 | 0.703 | -0.45 | 0.667 |

## Secondary outcome: Ability to do first activity (NRS)

### Plot



### Descriptive table

| Ability to do first activity (higher is better) | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 4.43 (1.40) | 6.43 (1.13) | 4.43 (0.53) | 4.71 (0.76) | 6.86 (0.38) | 4.67 (1.21) | 6.71 (0.49) |
| IQR | 1.50 | 0.50 | 1.00 | 1.00 | 0.00 | 1.75 | 0.50 |
| min - max | 3.00 - 7.00 | 4.00 - 7.00 | 4.00 - 5.00 | 4.00 - 6.00 | 6.00 - 7.00 | 3.00 - 6.00 | 6.00 - 7.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 3.57 (0.79) | 4.33 (1.37) | 6.86 (1.35) | 3.86 (0.90) | 6.57 (1.13) | 5.71 (1.98) | 6.29 (1.25) |
| IQR | 1.00 | 2.25 | 0.50 | 1.50 | 1.00 | 2.00 | 1.00 |
| min - max | 3.00 - 5.00 | 3.00 - 6.00 | 4.00 - 8.00 | 3.00 - 5.00 | 5.00 - 8.00 | 2.00 - 7.00 | 4.00 - 8.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.86 (0.69) | 7.00 (1.29) | 7.43 (2.51) | 7.14 (2.27) | 8.00 (0.00) | 5.86 (1.35) | 5.57 (1.27) |
| IQR | 0.50 | 2.00 | 1.50 | 0.00 | 0.00 | 1.50 | 2.00 |
| min - max | 4.00 - 6.00 | 5.00 - 8.00 | 2.00 - 9.00 | 2.00 - 8.00 | 8.00 - 8.00 | 4.00 - 8.00 | 4.00 - 7.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.86 (1.57) | 2.57 (0.53) | 5.86 (1.68) | 3.29 (0.76) | 5.57 (0.53) | 5.43 (0.53) | 5.14 (0.90) |
| IQR | 2.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.50 |
| min - max | 3.00 - 7.00 | 2.00 - 3.00 | 3.00 - 8.00 | 2.00 - 4.00 | 5.00 - 6.00 | 5.00 - 6.00 | 4.00 - 6.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 6 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.14 (0.90) | 5.14 (0.38) | 5.67 (0.52) | 5.14 (0.38) | 5.29 (0.76) | 4.86 (0.38) | 4.00 (0.58) |
| IQR | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| min - max | 3.00 - 6.00 | 5.00 - 6.00 | 5.00 - 6.00 | 5.00 - 6.00 | 5.00 - 7.00 | 4.00 - 5.00 | 3.00 - 5.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 5 | 7 |
| Mean (sd) | 4.43 (0.79) | 4.57 (0.53) | 4.57 (0.53) | 4.71 (0.49) | 4.67 (0.82) | 5.00 (0.00) | 5.14 (0.38) |
| IQR | 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.00 | 0.00 |
| min - max | 3.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 6.00 | 5.00 - 5.00 | 5.00 - 6.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.14 (0.69) | 4.86 (0.90) | 3.86 (1.68) | 4.86 (0.69) | 4.29 (0.76) | 6.43 (0.79) | 5.14 (0.90) |
| IQR | 0.50 | 1.50 | 2.00 | 0.50 | 1.00 | 1.00 | 1.50 |
| min - max | 4.00 - 6.00 | 4.00 - 6.00 | 1.00 - 5.00 | 4.00 - 6.00 | 3.00 - 5.00 | 5.00 - 7.00 | 4.00 - 6.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.50 (2.74) | 7.71 (0.49) | 5.43 (1.62) | 6.57 (1.27) | 7.71 (0.76) | 7.00 (0.00) | 6.57 (0.79) |
| IQR | 5.00 | 0.50 | 2.50 | 2.00 | 1.00 | 0.00 | 0.50 |
| min - max | 2.00 - 7.00 | 7.00 - 8.00 | 4.00 - 8.00 | 5.00 - 8.00 | 7.00 - 9.00 | 7.00 - 7.00 | 5.00 - 7.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 5.14 (0.90) | 6.00 (1.67) | 5.71 (1.70) | 7.00 (1.41) | 4.67 (0.82) | 4.71 (1.11) | 6.43 (1.62) |
| IQR | 1.50 | 1.50 | 2.50 | 1.00 | 1.00 | 1.50 | 0.50 |
| min - max | 4.00 - 6.00 | 5.00 - 9.00 | 4.00 - 8.00 | 4.00 - 8.00 | 4.00 - 6.00 | 3.00 - 6.00 | 3.00 - 8.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 1.86 (2.97) | 1.29 (0.76) | 0.71 (0.76) | 1.00 (0.58) | 0.86 (0.38) | 0.83 (0.41) | 0.83 (0.41) |
| IQR | 2.50 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| min - max | 0.00 - 8.00 | 0.00 - 2.00 | 0.00 - 2.00 | 0.00 - 2.00 | 0.00 - 1.00 | 0.00 - 1.00 | 0.00 - 1.00 |

### Hypothesis test

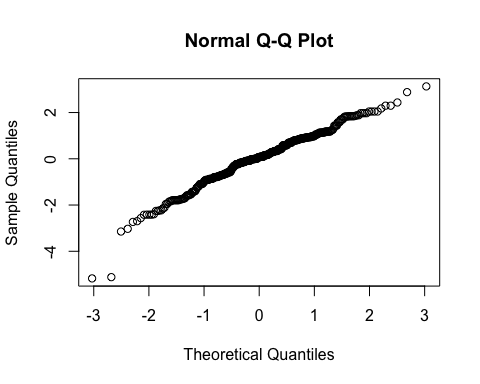
Ability to do first activity (higher is better)

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | 2.000 | -2.143 | -2.048 | -0.730 |
| 2-03 | -2.524 | -2.714 | -0.571 | -1.936 |
| 2-04 | -0.429 | -0.857 | 0.286 | -0.333 |
| 2-05 | -3.286 | -2.286 | 0.286 | -1.762 |
| 2-06 | -0.524 | -0.143 | 0.857 | 0.063 |
| 2-07 | 0.000 | 0.048 | -0.143 | -0.032 |
| 3-002 | 1.000 | 0.571 | 1.286 | 0.952 |
| 3-004 | 2.286 | -1.143 | 0.429 | 0.524 |
| 3-008 | 0.286 | 2.333 | -1.714 | 0.302 |
| 3-009 | 0.571 | 0.143 | 0.000 | 0.238 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.31.

### Treatment effect estimates

QQ-plot 

By subject

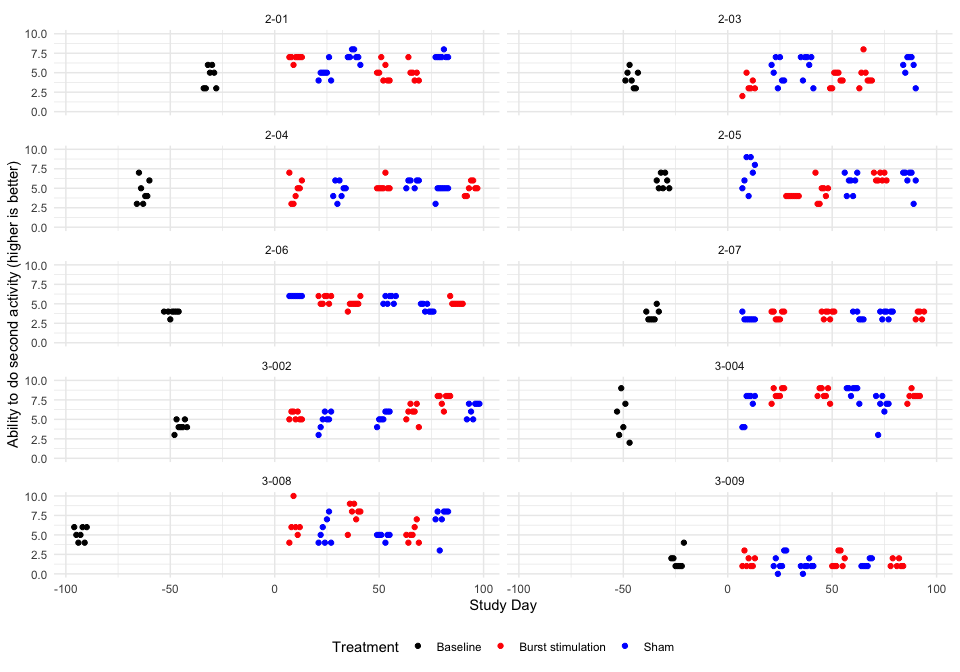
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | -0.631 | 0.298 | 0.034 | -1.216 | -0.046 |
| 2-03 | -1.669 | 0.298 | 0.000 | -2.254 | -1.084 |
| 2-04 | -0.300 | 0.298 | 0.315 | -0.885 | 0.285 |
| 2-05 | -1.538 | 0.298 | 0.000 | -2.123 | -0.953 |
| 2-06 | 0.033 | 0.298 | 0.912 | -0.552 | 0.618 |
| 2-07 | -0.077 | 0.298 | 0.796 | -0.662 | 0.508 |
| 3-002 | 0.770 | 0.298 | 0.010 | 0.185 | 1.355 |
| 3-004 | 0.405 | 0.298 | 0.175 | -0.180 | 0.990 |
| 3-008 | 0.166 | 0.298 | 0.579 | -0.419 | 0.751 |
| 3-009 | 0.169 | 0.298 | 0.571 | -0.416 | 0.754 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| -0.269 | 0.298 | 0.367 | -0.854 | 0.316 |

## Secondary outcome: Ability to do second activity (NRS)

### Plot



### Descriptive table

| Ability to do second activity (higher is better) | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 4.43 (1.40) | 6.86 (0.38) | 5.00 (1.00) | 5.00 (1.15) | 7.14 (0.69) | 5.00 (1.10) | 7.14 (0.38) |
| IQR | 2.50 | 0.00 | 0.50 | 1.50 | 0.50 | 0.75 | 0.00 |
| min - max | 3.00 - 6.00 | 6.00 - 7.00 | 4.00 - 7.00 | 4.00 - 7.00 | 6.00 - 8.00 | 4.00 - 7.00 | 7.00 - 8.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.29 (1.11) | 3.33 (1.03) | 5.14 (1.57) | 4.14 (0.90) | 5.86 (1.68) | 4.71 (1.60) | 5.86 (1.46) |
| IQR | 1.50 | 0.75 | 2.50 | 1.50 | 2.00 | 1.00 | 1.50 |
| min - max | 3.00 - 6.00 | 2.00 - 5.00 | 3.00 - 7.00 | 3.00 - 5.00 | 3.00 - 7.00 | 3.00 - 8.00 | 3.00 - 7.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.57 (1.51) | 4.71 (1.50) | 4.71 (1.11) | 5.29 (0.76) | 5.67 (0.52) | 5.00 (0.82) | 4.71 (0.76) |
| IQR | 2.00 | 2.00 | 1.50 | 0.00 | 0.75 | 1.00 | 0.00 |
| min - max | 3.00 - 7.00 | 3.00 - 7.00 | 3.00 - 6.00 | 5.00 - 7.00 | 5.00 - 6.00 | 4.00 - 6.00 | 3.00 - 5.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.86 (0.90) | 4.00 (0.00) | 6.86 (1.95) | 4.57 (1.40) | 5.71 (1.25) | 6.43 (0.53) | 6.14 (1.46) |
| IQR | 1.50 | 0.00 | 3.00 | 1.50 | 1.50 | 1.00 | 1.00 |
| min - max | 5.00 - 7.00 | 4.00 - 4.00 | 4.00 - 9.00 | 3.00 - 7.00 | 4.00 - 7.00 | 6.00 - 7.00 | 3.00 - 7.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 3.86 (0.38) | 5.57 (0.53) | 6.00 (0.00) | 5.00 (0.58) | 5.57 (0.53) | 5.14 (0.38) | 4.43 (0.53) |
| IQR | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| min - max | 3.00 - 4.00 | 5.00 - 6.00 | 6.00 - 6.00 | 4.00 - 6.00 | 5.00 - 6.00 | 5.00 - 6.00 | 4.00 - 5.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 5 | 5 | 7 |
| Mean (sd) | 3.57 (0.79) | 3.57 (0.53) | 3.14 (0.38) | 3.71 (0.49) | 3.40 (0.55) | 3.60 (0.55) | 3.71 (0.49) |
| IQR | 1.00 | 1.00 | 0.00 | 0.50 | 1.00 | 1.00 | 0.50 |
| min - max | 3.00 - 5.00 | 3.00 - 4.00 | 3.00 - 4.00 | 3.00 - 4.00 | 3.00 - 4.00 | 3.00 - 4.00 | 3.00 - 4.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.14 (0.69) | 5.43 (0.53) | 4.86 (1.07) | 5.86 (1.07) | 5.29 (0.76) | 7.57 (0.79) | 6.29 (0.95) |
| IQR | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 1.50 |
| min - max | 3.00 - 5.00 | 5.00 - 6.00 | 3.00 - 6.00 | 4.00 - 7.00 | 4.00 - 6.00 | 6.00 - 8.00 | 5.00 - 7.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.17 (2.64) | 8.29 (0.76) | 6.71 (1.89) | 8.29 (0.76) | 8.57 (0.79) | 8.00 (0.58) | 6.57 (1.72) |
| IQR | 3.50 | 1.00 | 2.50 | 1.00 | 0.50 | 0.00 | 1.00 |
| min - max | 2.00 - 9.00 | 7.00 - 9.00 | 4.00 - 8.00 | 7.00 - 9.00 | 7.00 - 9.00 | 7.00 - 9.00 | 3.00 - 8.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 5.14 (0.90) | 6.17 (2.04) | 5.43 (1.62) | 7.71 (1.38) | 4.83 (0.41) | 5.14 (1.07) | 7.00 (1.83) |
| IQR | 1.50 | 0.75 | 2.50 | 1.00 | 0.00 | 1.00 | 1.00 |
| min - max | 4.00 - 6.00 | 4.00 - 10.00 | 4.00 - 8.00 | 5.00 - 9.00 | 4.00 - 5.00 | 4.00 - 7.00 | 3.00 - 8.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 1.71 (1.11) | 1.57 (0.79) | 1.57 (1.13) | 1.71 (0.95) | 1.00 (0.58) | 1.33 (0.52) | 1.33 (0.52) |
| IQR | 1.00 | 1.00 | 1.50 | 1.50 | 0.00 | 0.75 | 0.75 |
| min - max | 1.00 - 4.00 | 1.00 - 3.00 | 0.00 - 3.00 | 1.00 - 3.00 | 0.00 - 2.00 | 1.00 - 2.00 | 1.00 - 2.00 |

### Hypothesis test

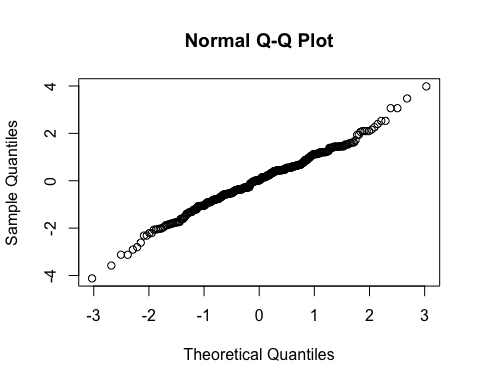
Ability to do second activity (higher is better)

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | 1.857 | -2.143 | -2.143 | -0.810 |
| 2-03 | -1.810 | -1.714 | -1.143 | -1.556 |
| 2-04 | 0.000 | -0.381 | 0.286 | -0.032 |
| 2-05 | -2.857 | -1.143 | 0.286 | -1.238 |
| 2-06 | -0.429 | -0.571 | 0.714 | -0.095 |
| 2-07 | 0.429 | 0.314 | -0.114 | 0.210 |
| 3-002 | 0.571 | 0.571 | 1.286 | 0.809 |
| 3-004 | 1.571 | -0.286 | 1.429 | 0.905 |
| 3-008 | 0.738 | 2.881 | -1.857 | 0.587 |
| 3-009 | 0.000 | 0.714 | 0.000 | 0.238 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.69.

### Treatment effect estimates

QQ-plot 

By subject

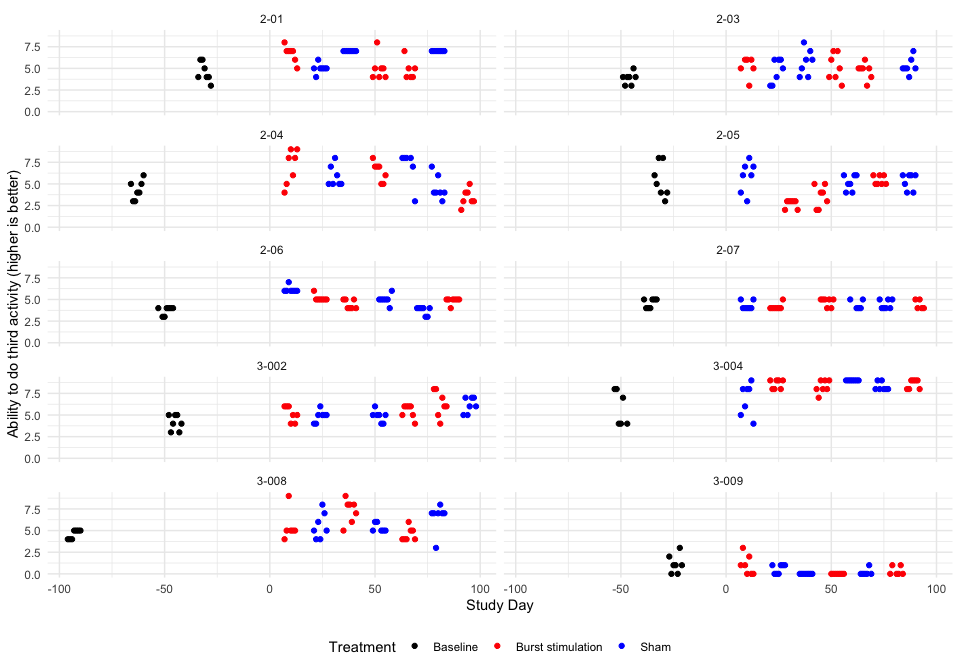
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | -0.650 | 0.265 | 0.014 | -1.169 | -0.130 |
| 2-03 | -1.275 | 0.265 | 0.000 | -1.794 | -0.756 |
| 2-04 | -0.030 | 0.265 | 0.910 | -0.549 | 0.489 |
| 2-05 | -1.033 | 0.265 | 0.000 | -1.552 | -0.513 |
| 2-06 | -0.095 | 0.265 | 0.719 | -0.615 | 0.424 |
| 2-07 | 0.158 | 0.265 | 0.552 | -0.362 | 0.677 |
| 3-002 | 0.647 | 0.265 | 0.015 | 0.127 | 1.166 |
| 3-004 | 0.725 | 0.265 | 0.006 | 0.206 | 1.244 |
| 3-008 | 0.411 | 0.265 | 0.121 | -0.109 | 0.930 |
| 3-009 | 0.185 | 0.265 | 0.484 | -0.334 | 0.705 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| -0.098 | 0.265 | 0.711 | -0.617 | 0.421 |

## Secondary outcome: Ability to do third activity (NRS)

### Plot



### Descriptive table

| Ability to do third activity (higher is better) | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| Mean (sd) | 4.57 (1.13) | 6.71 (0.95) | 5.00 (0.58) | 5.00 (1.41) | 7.00 (0.00) | 4.83 (1.17) | 7.00 (0.00) |
| IQR | 1.50 | 0.50 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| min - max | 3.00 - 6.00 | 5.00 - 8.00 | 4.00 - 6.00 | 4.00 - 8.00 | 7.00 - 7.00 | 4.00 - 7.00 | 7.00 - 7.00 |
| 2-03 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 3.86 (0.69) | 5.17 (1.17) | 4.71 (1.38) | 5.14 (1.57) | 5.71 (1.50) | 4.71 (0.95) | 5.29 (0.95) |
| IQR | 0.50 | 1.00 | 2.50 | 2.50 | 2.00 | 0.50 | 0.50 |
| min - max | 3.00 - 5.00 | 3.00 - 6.00 | 3.00 - 6.00 | 3.00 - 7.00 | 4.00 - 8.00 | 3.00 - 6.00 | 4.00 - 7.00 |
| 2-04 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.29 (1.11) | 7.00 (2.00) | 5.86 (1.21) | 6.43 (1.13) | 7.00 (2.00) | 3.43 (0.98) | 4.57 (1.40) |
| IQR | 1.50 | 3.00 | 1.50 | 1.50 | 0.75 | 1.00 | 1.00 |
| min - max | 3.00 - 6.00 | 4.00 - 9.00 | 5.00 - 8.00 | 5.00 - 8.00 | 3.00 - 8.00 | 2.00 - 5.00 | 3.00 - 7.00 |
| 2-05 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.43 (1.99) | 2.71 (0.49) | 5.86 (1.77) | 3.57 (1.27) | 5.14 (0.90) | 5.43 (0.53) | 5.29 (0.95) |
| IQR | 3.00 | 0.50 | 2.00 | 2.00 | 1.50 | 1.00 | 1.50 |
| min - max | 3.00 - 8.00 | 2.00 - 3.00 | 3.00 - 8.00 | 2.00 - 5.00 | 4.00 - 6.00 | 5.00 - 6.00 | 4.00 - 6.00 |
| 2-06 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 3.71 (0.49) | 5.14 (0.38) | 6.14 (0.38) | 4.43 (0.53) | 5.00 (0.58) | 4.86 (0.38) | 3.71 (0.49) |
| IQR | 0.50 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.50 |
| min - max | 3.00 - 4.00 | 5.00 - 6.00 | 6.00 - 7.00 | 4.00 - 5.00 | 4.00 - 6.00 | 4.00 - 5.00 | 3.00 - 4.00 |
| 2-07 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 5 | 5 | 7 |
| Mean (sd) | 4.57 (0.53) | 4.14 (0.38) | 4.29 (0.49) | 4.71 (0.49) | 4.40 (0.55) | 4.40 (0.55) | 4.43 (0.53) |
| IQR | 1.00 | 0.00 | 0.50 | 0.50 | 1.00 | 1.00 | 1.00 |
| min - max | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 | 4.00 - 5.00 |
| 3-002 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 4.14 (0.90) | 5.14 (0.90) | 4.86 (0.69) | 5.43 (0.79) | 4.86 (0.69) | 6.29 (1.50) | 6.14 (0.90) |
| IQR | 1.50 | 1.50 | 0.50 | 1.00 | 0.50 | 2.00 | 1.50 |
| min - max | 3.00 - 5.00 | 4.00 - 6.00 | 4.00 - 6.00 | 4.00 - 6.00 | 4.00 - 6.00 | 4.00 - 8.00 | 5.00 - 7.00 |
| 3-004 |  |  |  |  |  |  |  |
| n | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mean (sd) | 5.83 (2.04) | 8.57 (0.53) | 6.86 (1.86) | 8.29 (0.76) | 9.00 (0.00) | 8.57 (0.53) | 8.29 (0.49) |
| IQR | 3.75 | 1.00 | 2.50 | 1.00 | 0.00 | 1.00 | 0.50 |
| min - max | 4.00 - 8.00 | 8.00 - 9.00 | 4.00 - 9.00 | 7.00 - 9.00 | 9.00 - 9.00 | 8.00 - 9.00 | 8.00 - 9.00 |
| 3-008 |  |  |  |  |  |  |  |
| n | 7 | 6 | 7 | 7 | 6 | 7 | 7 |
| Mean (sd) | 4.57 (0.53) | 5.50 (1.76) | 5.57 (1.51) | 7.29 (1.38) | 5.33 (0.52) | 4.57 (0.79) | 6.57 (1.62) |
| IQR | 1.00 | 0.00 | 2.00 | 1.50 | 0.75 | 1.00 | 0.00 |
| min - max | 4.00 - 5.00 | 4.00 - 9.00 | 4.00 - 8.00 | 5.00 - 9.00 | 5.00 - 6.00 | 4.00 - 6.00 | 3.00 - 8.00 |
| 3-009 |  |  |  |  |  |  |  |
| n | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Mean (sd) | 1.14 (1.07) | 1.00 (1.15) | 0.57 (0.53) | 0.00 (0.00) | 0.00 (0.00) | 0.33 (0.52) | 0.17 (0.41) |
| IQR | 1.00 | 1.50 | 1.00 | 0.00 | 0.00 | 0.75 | 0.00 |
| min - max | 0.00 - 3.00 | 0.00 - 3.00 | 0.00 - 1.00 | 0.00 - 0.00 | 0.00 - 0.00 | 0.00 - 1.00 | 0.00 - 1.00 |

### Hypothesis test

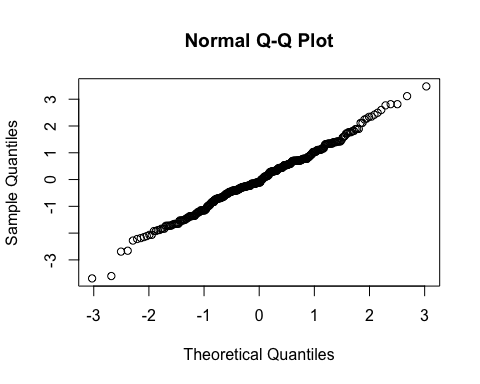
Ability to do third activity (higher is better)

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | 1.714 | -2.000 | -2.167 | -0.818 |
| 2-03 | 0.452 | -0.571 | -0.571 | -0.230 |
| 2-04 | 1.143 | -0.571 | -1.143 | -0.190 |
| 2-05 | -3.143 | -1.571 | 0.143 | -1.524 |
| 2-06 | -1.000 | -0.571 | 1.143 | -0.143 |
| 2-07 | -0.143 | 0.314 | -0.029 | 0.047 |
| 3-002 | 0.286 | 0.571 | 0.143 | 0.333 |
| 3-004 | 1.714 | -0.714 | 0.286 | 0.429 |
| 3-008 | -0.071 | 1.952 | -2.000 | -0.040 |
| 3-009 | 0.429 | 0.000 | 0.167 | 0.199 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.38.

### Treatment effect estimates

QQ-plot 

By subject

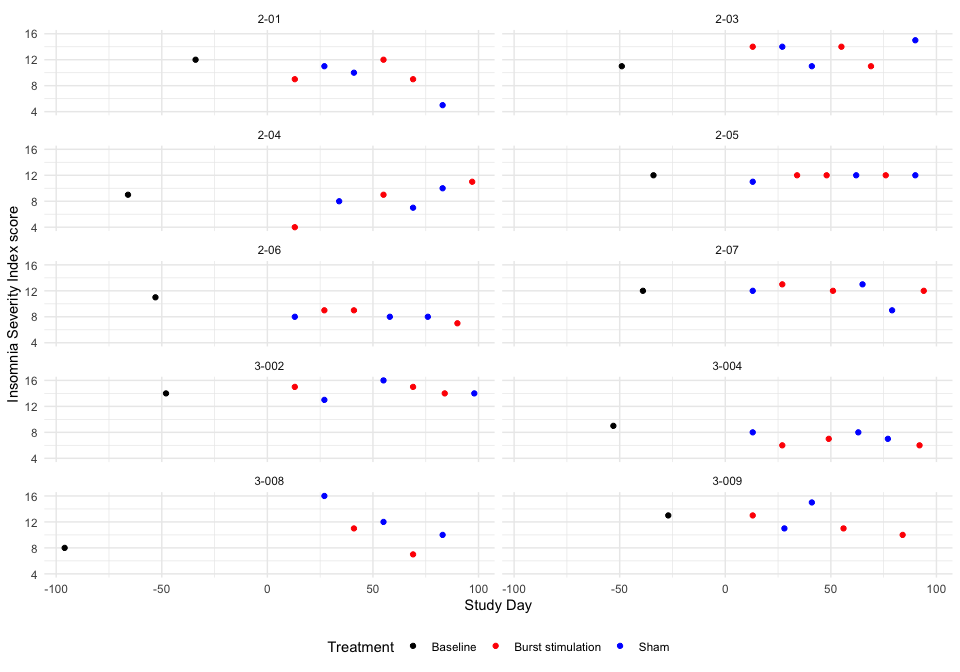
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | -0.571 | 0.184 | 0.002 | -0.932 | -0.210 |
| 2-03 | -0.228 | 0.184 | 0.215 | -0.589 | 0.133 |
| 2-04 | -0.181 | 0.184 | 0.327 | -0.542 | 0.180 |
| 2-05 | -1.050 | 0.184 | 0.000 | -1.411 | -0.689 |
| 2-06 | -0.162 | 0.184 | 0.378 | -0.523 | 0.199 |
| 2-07 | -0.055 | 0.184 | 0.766 | -0.416 | 0.306 |
| 3-002 | 0.144 | 0.184 | 0.435 | -0.217 | 0.505 |
| 3-004 | 0.205 | 0.184 | 0.266 | -0.156 | 0.566 |
| 3-008 | -0.127 | 0.184 | 0.492 | -0.488 | 0.234 |
| 3-009 | 0.054 | 0.184 | 0.771 | -0.307 | 0.415 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| -0.199 | 0.184 | 0.28 | -0.56 | 0.162 |

## Secondary endpoint: Insomnia Severity Index questionnaire total score

### Plot

 ### Descriptive table

| Insomnia Severity Index score | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
|  | 12 | 9 | 11 | 12 | 10 | 9 | 5 |
| 2-03 |  |  |  |  |  |  |  |
|  | 11 | 14 | 14 | 14 | 11 | 11 | 15 |
| 2-04 |  |  |  |  |  |  |  |
|  | 9 | 4 | 8 | 9 | 7 | 11 | 10 |
| 2-05 |  |  |  |  |  |  |  |
|  | 12 | 12 | 11 | 12 | 12 | 12 | 12 |
| 2-06 |  |  |  |  |  |  |  |
|  | 11 | 9 | 8 | 9 | 8 | 7 | 8 |
| 2-07 |  |  |  |  |  |  |  |
|  | 12 | 13 | 12 | 12 | 13 | 12 | 9 |
| 3-002 |  |  |  |  |  |  |  |
|  | 14 | 15 | 13 | 15 | 16 | 14 | 14 |
| 3-004 |  |  |  |  |  |  |  |
|  | 9 | 6 | 8 | 7 | 8 | 6 | 7 |
| 3-008 |  |  |  |  |  |  |  |
|  | 8 | NA | 16 | 11 | 12 | 7 | 10 |
| 3-009 |  |  |  |  |  |  |  |
|  | 13 | 13 | 11 | 11 | 15 | 10 | NA |

### Hypothesis test

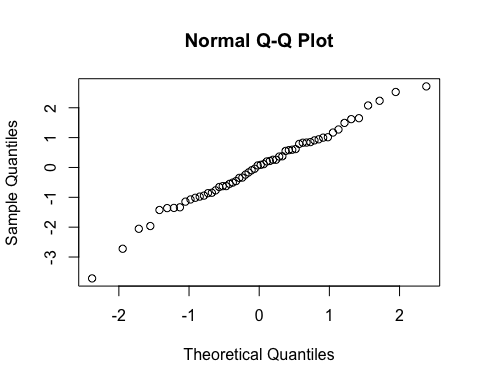
Insomnia Severity Index score

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | -2 | 2 | 4 | 1.333 |
| 2-03 | 0 | 3 | -4 | -0.333 |
| 2-04 | -4 | 2 | 1 | -0.333 |
| 2-05 | 1 | 0 | 0 | 0.333 |
| 2-06 | 1 | 1 | -1 | 0.333 |
| 2-07 | 1 | -1 | 3 | 1.000 |
| 3-002 | 2 | -1 | 0 | 0.333 |
| 3-004 | -2 | -1 | -1 | -1.333 |
| 3-008 | NaN | -1 | -3 | -2.000 |
| 3-009 | 2 | -4 | NaN | -1.000 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.86.

### Treatment effect estimates

QQ-plot 

By subject

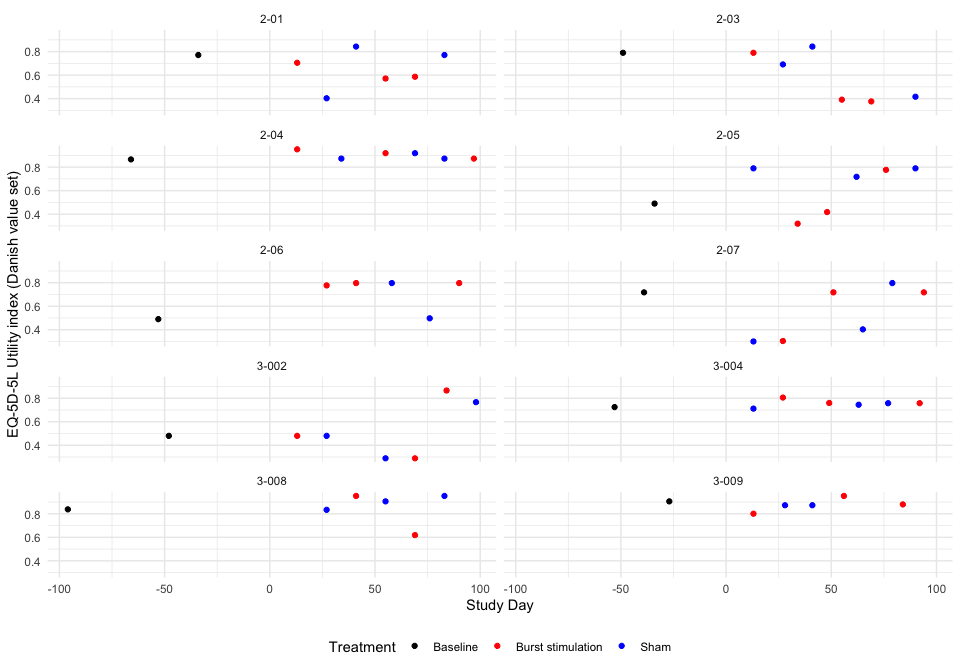
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | 1.076 | 1.071 | 0.315 | -1.024 | 3.175 |
| 2-03 | -0.327 | 1.071 | 0.760 | -2.426 | 1.773 |
| 2-04 | -0.327 | 1.071 | 0.760 | -2.426 | 1.773 |
| 2-05 | 0.234 | 1.071 | 0.827 | -1.865 | 2.334 |
| 2-06 | 0.234 | 1.071 | 0.827 | -1.865 | 2.334 |
| 2-07 | 0.795 | 1.071 | 0.458 | -1.304 | 2.895 |
| 3-002 | 0.234 | 1.071 | 0.827 | -1.865 | 2.334 |
| 3-004 | -1.168 | 1.071 | 0.276 | -3.267 | 0.932 |
| 3-008 | -2.681 | 1.071 | 0.012 | -4.781 | -0.582 |
| 3-009 | -0.980 | 1.071 | 0.360 | -3.079 | 1.120 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| -0.238 | 1.071 | 0.824 | -2.337 | 1.862 |

## Secondary endpoint: EQ-5D-5L Utility Index

### Plot

 ### Descriptive table

| EQ-5D-5L Utility index (Danish value set) | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
|  | 0.771 | 0.705 | 0.403 | 0.571 | 0.843 | 0.586 | 0.771 |
| 2-03 |  |  |  |  |  |  |  |
|  | 0.79 | 0.79 | 0.691 | 0.391 | 0.843 | 0.376 | 0.416 |
| 2-04 |  |  |  |  |  |  |  |
|  | 0.866 | 0.952 | 0.873 | 0.919 | 0.919 | 0.873 | 0.873 |
| 2-05 |  |  |  |  |  |  |  |
|  | 0.49 | 0.319 | 0.79 | 0.418 | 0.718 | 0.777 | 0.79 |
| 2-06 |  |  |  |  |  |  |  |
|  | 0.49 | 0.777 | NA | 0.797 | 0.797 | 0.797 | 0.497 |
| 2-07 |  |  |  |  |  |  |  |
|  | 0.718 | 0.304 | 0.3 | 0.718 | 0.403 | 0.718 | 0.797 |
| 3-002 |  |  |  |  |  |  |  |
|  | 0.48 | 0.48 | 0.48 | 0.289 | 0.289 | 0.866 | 0.767 |
| 3-004 |  |  |  |  |  |  |  |
|  | 0.725 | 0.806 | 0.712 | 0.76 | 0.745 | 0.758 | 0.758 |
| 3-008 |  |  |  |  |  |  |  |
|  | 0.838 | NA | 0.834 | 0.952 | 0.906 | 0.619 | 0.952 |
| 3-009 |  |  |  |  |  |  |  |
|  | 0.906 | 0.801 | 0.873 | 0.952 | 0.873 | 0.88 | NA |

### Hypothesis test

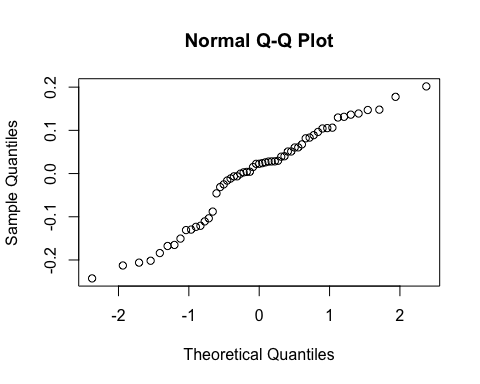
EQ-5D-5L Utility index (Danish value set)

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | 0.302 | -0.272 | -0.185 | -0.052 |
| 2-03 | 0.099 | -0.452 | -0.040 | -0.131 |
| 2-04 | 0.079 | 0.000 | 0.000 | 0.026 |
| 2-05 | -0.471 | -0.300 | -0.013 | -0.261 |
| 2-06 | NaN | 0.000 | 0.300 | 0.150 |
| 2-07 | 0.004 | 0.315 | -0.079 | 0.080 |
| 3-002 | 0.000 | 0.000 | 0.099 | 0.033 |
| 3-004 | 0.094 | 0.015 | 0.000 | 0.036 |
| 3-008 | NaN | 0.046 | -0.333 | -0.144 |
| 3-009 | -0.072 | 0.079 | NaN | 0.004 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.46.

### Treatment effect estimates

QQ-plot 

By subject

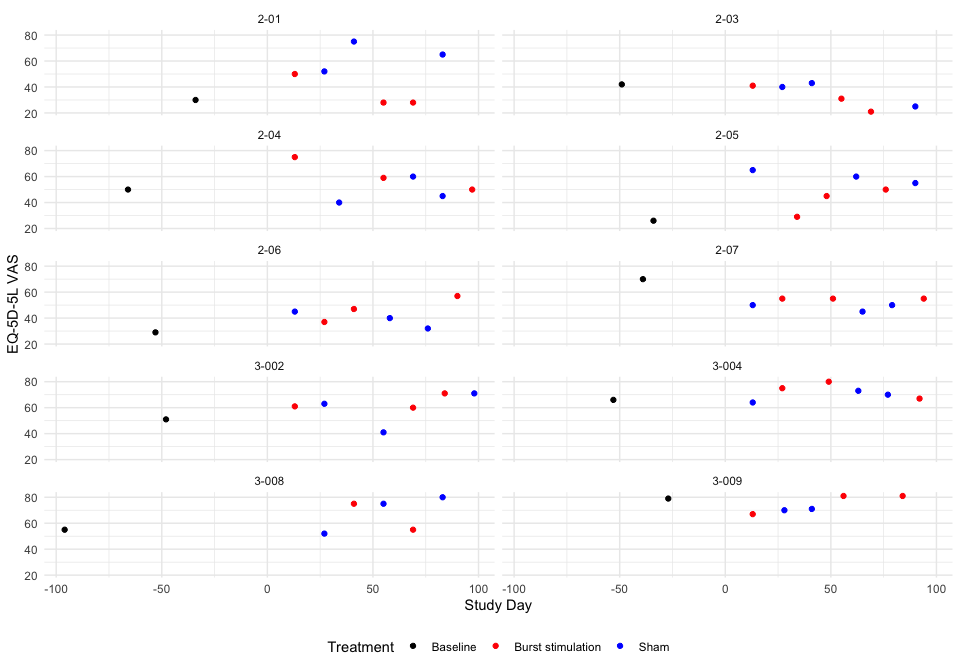
| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | -0.029 | 0.039 | 0.450 | -0.106 | 0.047 |
| 2-03 | -0.038 | 0.039 | 0.336 | -0.114 | 0.039 |
| 2-04 | -0.022 | 0.039 | 0.581 | -0.098 | 0.055 |
| 2-05 | -0.051 | 0.039 | 0.193 | -0.127 | 0.026 |
| 2-06 | -0.012 | 0.039 | 0.751 | -0.089 | 0.064 |
| 2-07 | -0.016 | 0.039 | 0.681 | -0.092 | 0.060 |
| 3-002 | -0.021 | 0.039 | 0.593 | -0.097 | 0.056 |
| 3-004 | -0.020 | 0.039 | 0.599 | -0.097 | 0.056 |
| 3-008 | -0.036 | 0.039 | 0.349 | -0.113 | 0.040 |
| 3-009 | -0.024 | 0.039 | 0.542 | -0.100 | 0.053 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| -0.027 | 0.039 | 0.488 | -0.104 | 0.049 |

## Secondary endpoint: EQ-5D-5L self-rated health (VAS)

### Plot

 ### Descriptive table

| EQ-5D-5L VAS | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
|  | 30 | 50 | 52 | 28 | 75 | 28 | 65 |
| 2-03 |  |  |  |  |  |  |  |
|  | 42 | 41 | 40 | 31 | 43 | 21 | 25 |
| 2-04 |  |  |  |  |  |  |  |
|  | 50 | 75 | 40 | 59 | 60 | 50 | 45 |
| 2-05 |  |  |  |  |  |  |  |
|  | 26 | 29 | 65 | 45 | 60 | 50 | 55 |
| 2-06 |  |  |  |  |  |  |  |
|  | 29 | 37 | 45 | 47 | 40 | 57 | 32 |
| 2-07 |  |  |  |  |  |  |  |
|  | 70 | 55 | 50 | 55 | 45 | 55 | 50 |
| 3-002 |  |  |  |  |  |  |  |
|  | 51 | 61 | 63 | 60 | 41 | 71 | 71 |
| 3-004 |  |  |  |  |  |  |  |
|  | 66 | 75 | 64 | 80 | 73 | 67 | 70 |
| 3-008 |  |  |  |  |  |  |  |
|  | 55 | NA | 52 | 75 | 75 | 55 | 80 |
| 3-009 |  |  |  |  |  |  |  |
|  | 79 | 67 | 70 | 81 | 71 | 81 | NA |

### Hypothesis test

EQ-5D-5L VAS

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | -2 | -47 | -37 | -28.667 |
| 2-03 | 1 | -12 | -4 | -5.000 |
| 2-04 | 35 | -1 | 5 | 13.000 |
| 2-05 | -36 | -15 | -5 | -18.667 |
| 2-06 | -8 | 7 | 25 | 8.000 |
| 2-07 | 5 | 10 | 5 | 6.667 |
| 3-002 | -2 | 19 | 0 | 5.667 |
| 3-004 | 11 | 7 | -3 | 5.000 |
| 3-008 | NaN | 0 | -25 | -12.500 |
| 3-009 | -3 | 10 | NaN | 3.500 |

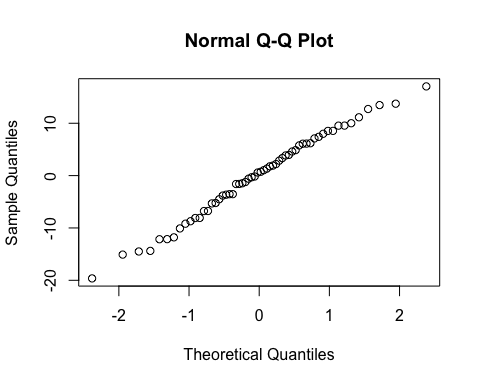
Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.53.

### Treatment effect estimates

QQ-plot

## boundary (singular) fit: see help('isSingular')



By subject

| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | -18.768 | 4.26 | 0.000 | -27.118 | -10.419 |
| 2-03 | -3.640 | 4.26 | 0.393 | -11.989 | 4.710 |
| 2-04 | 7.867 | 4.26 | 0.065 | -0.482 | 16.216 |
| 2-05 | -12.376 | 4.26 | 0.004 | -20.725 | -4.027 |
| 2-06 | 4.671 | 4.26 | 0.273 | -3.679 | 13.020 |
| 2-07 | 3.818 | 4.26 | 0.370 | -4.531 | 12.168 |
| 3-002 | 3.179 | 4.26 | 0.456 | -5.170 | 11.528 |
| 3-004 | 2.753 | 4.26 | 0.518 | -5.596 | 11.102 |
| 3-008 | -3.438 | 4.26 | 0.420 | -11.787 | 4.911 |
| 3-009 | 3.645 | 4.26 | 0.392 | -4.704 | 11.994 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| -1.275 | 4.26 | 0.765 | -9.624 | 7.074 |

## Secondary endpoint: Patient Global Impression of Change

### Descriptive table

| Patient Global Impression of Change | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | |
|  | Baseline - Burst stimulation | Baseline - Sham | Burst stimulation - Burst stimulation | Burst stimulation - Sham | Sham - Burst stimulation | Sham - Sham |
| Veldig mye bedre | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| Mye bedre | 2 (40.00%) | 1 (25.00%) | 4 (57.14%) | 5 (29.41%) | 5 (29.41%) | 1 (12.50%) |
| Minimalt bedre | 1 (20.00%) | 1 (25.00%) | 0 (0.00%) | 2 (11.76%) | 2 (11.76%) | 1 (12.50%) |
| Ingen endring | 2 (40.00%) | 0 (0.00%) | 2 (28.57%) | 3 (17.65%) | 4 (23.53%) | 2 (25.00%) |
| Minimalt verre | 0 (0.00%) | 1 (25.00%) | 0 (0.00%) | 3 (17.65%) | 0 (0.00%) | 1 (12.50%) |
| Mye verre | 0 (0.00%) | 1 (25.00%) | 1 (14.29%) | 3 (17.65%) | 6 (35.29%) | 3 (37.50%) |
| Veldig mye verre | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (5.88%) | 0 (0.00%) | 0 (0.00%) |

### Hypothesis test and treatment effect estimates

|  | Mean | SD |
| --- | --- | --- |
| Burst stimulation - Sham | 4 | 1.695582 |
| Sham - Burst stimulation | 4 | 1.695582 |

| contrast | estimate | std.error | p.value | conf.low | conf.high |
| --- | --- | --- | --- | --- | --- |
| Sham - Burst stimulation - Burst stimulation - Sham | 0 | 0.582 | 1 | -1.14 | 1.14 |

## Secondary outcome: Patient blinding question

### Descriptive table by participant

| Patient blinding question | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | |
|  | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |
| Slått på | 1 (11.11%) | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 1 (11.11%) |
| Slått av | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| 2-03 |  |  |  |  |  |  |
| Slått på | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) |
| Slått av | 1 (11.11%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (11.11%) |
| 2-04 |  |  |  |  |  |  |
| Slått på | 1 (11.11%) | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) |
| Slått av | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 1 (11.11%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| 2-05 |  |  |  |  |  |  |
| Slått på | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 1 (11.11%) |
| Slått av | 1 (11.11%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| 2-06 |  |  |  |  |  |  |
| Slått på | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) |
| Slått av | 1 (11.11%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (11.11%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| 2-07 |  |  |  |  |  |  |
| Slått på | 1 (11.11%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 1 (11.11%) |
| Slått av | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| Vet ikke | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) |
| 3-002 |  |  |  |  |  |  |
| Slått på | 1 (11.11%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) |
| Slått av | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (11.11%) |
| 3-004 |  |  |  |  |  |  |
| Slått på | 1 (11.11%) | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) |
| Slått av | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (11.11%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) |
| 3-008 |  |  |  |  |  |  |
| Slått på | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 1 (11.11%) |
| Slått av | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) |
| Vet ikke | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| 3-009 |  |  |  |  |  |  |
| Slått på | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) |
| Slått av | 1 (11.11%) | 1 (10.00%) | 1 (10.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) |
| Vet ikke | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 0 (0.00%) | 1 (10.00%) | 0 (0.00%) |

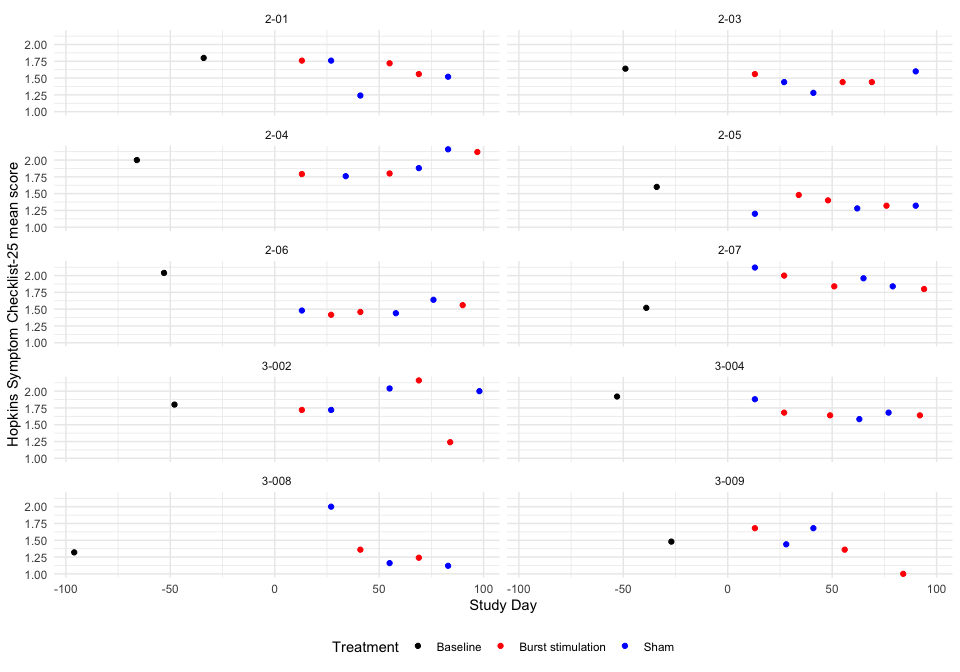
| Patient Blinding Quesiton | | |
| --- | --- | --- |
| Full analysis set | | |
|  | Burst stimulation | Sham |
| Slått på | 14 (48.28%) | 14 (48.28%) |
| Slått av | 11 (37.93%) | 10 (34.48%) |
| Vet ikke | 4 (13.79%) | 5 (17.24%) |

P-value of the null hypothesis chi-squared test: 0.92.

P-value of the null hypothesis Fisher test: 1.

## Secondary endpoint: Hopkins Symptom Checklist-25 mean score

### Plot

 ### Descriptive table

| Hopkins Symptom Checklist-25 mean score | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Full analysis set | | | | | | | |
|  | Baseline | Pair 1 | | Pair 2 | | Pair 3 | |
|  | Baseline | Burst stimulation | Sham | Burst stimulation | Sham | Burst stimulation | Sham |
| 2-01 |  |  |  |  |  |  |  |
|  | 1.8 | 1.76 | 1.76 | 1.72 | 1.24 | 1.56 | 1.52 |
| 2-03 |  |  |  |  |  |  |  |
|  | 1.64 | 1.56 | 1.44 | 1.44 | 1.28 | 1.44 | 1.6 |
| 2-04 |  |  |  |  |  |  |  |
|  | 2 | 1.79166666666667 | 1.76 | 1.8 | 1.88 | 2.12 | 2.16 |
| 2-05 |  |  |  |  |  |  |  |
|  | 1.6 | 1.48 | 1.2 | 1.4 | 1.28 | 1.32 | 1.32 |
| 2-06 |  |  |  |  |  |  |  |
|  | 2.04 | 1.41666666666667 | 1.48 | 1.45833333333333 | 1.44 | 1.56 | 1.64 |
| 2-07 |  |  |  |  |  |  |  |
|  | 1.52 | 2 | 2.12 | 1.84 | 1.96 | 1.8 | 1.84 |
| 3-002 |  |  |  |  |  |  |  |
|  | 1.8 | 1.72 | 1.72 | 2.16 | 2.04 | 1.24 | 2 |
| 3-004 |  |  |  |  |  |  |  |
|  | 1.92 | 1.68 | 1.88 | 1.64 | 1.58333333333333 | 1.64 | 1.68 |
| 3-008 |  |  |  |  |  |  |  |
|  | 1.32 | NA | 2 | 1.36 | 1.16 | 1.24 | 1.12 |
| 3-009 |  |  |  |  |  |  |  |
|  | 1.48 | 1.68 | 1.44 | 1.36 | 1.68 | 1 | NA |

### Hypothesis test

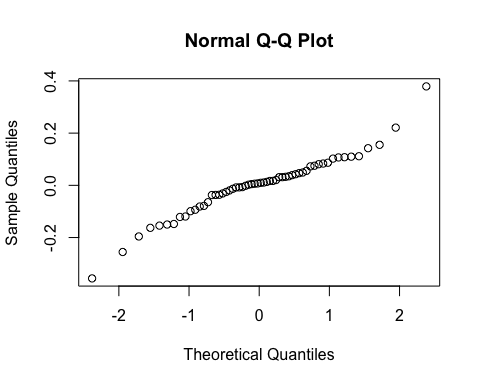
Hopkins Symptom Checklist-25 mean score

| Subject ID | Difference Pair 1 | Difference Pair 2 | Difference Pair 3 | Overall difference |
| --- | --- | --- | --- | --- |
| 2-01 | 0.000 | 0.480 | 0.04 | 0.173 |
| 2-03 | 0.120 | 0.160 | -0.16 | 0.040 |
| 2-04 | 0.032 | -0.080 | -0.04 | -0.029 |
| 2-05 | 0.280 | 0.120 | 0.00 | 0.133 |
| 2-06 | -0.063 | 0.018 | -0.08 | -0.042 |
| 2-07 | -0.120 | -0.120 | -0.04 | -0.093 |
| 3-002 | 0.000 | 0.120 | -0.76 | -0.213 |
| 3-004 | -0.200 | 0.057 | -0.04 | -0.061 |
| 3-008 | NaN | 0.200 | 0.12 | 0.160 |
| 3-009 | 0.240 | -0.320 | NaN | -0.040 |

Values are Burst stimulation - Sham.

P-value of the null hypothesis test: 0.97.

### Treatment effect estimates

QQ-plot 

By subject

| Subject ID | Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- | --- |
| 2-01 | 0.004 | 0.043 | 0.934 | -0.080 | 0.087 |
| 2-03 | -0.006 | 0.043 | 0.886 | -0.090 | 0.077 |
| 2-04 | -0.011 | 0.043 | 0.794 | -0.095 | 0.072 |
| 2-05 | 0.001 | 0.043 | 0.988 | -0.083 | 0.084 |
| 2-06 | -0.012 | 0.043 | 0.778 | -0.096 | 0.072 |
| 2-07 | -0.016 | 0.043 | 0.711 | -0.099 | 0.068 |
| 3-002 | -0.024 | 0.043 | 0.566 | -0.108 | 0.059 |
| 3-004 | -0.013 | 0.043 | 0.752 | -0.097 | 0.070 |
| 3-008 | -0.003 | 0.043 | 0.935 | -0.087 | 0.080 |
| 3-009 | -0.015 | 0.043 | 0.726 | -0.098 | 0.069 |

Overall

| Estimate | Std. Err. | p-value | Lower CL | Upper CL |
| --- | --- | --- | --- | --- |
| -0.01 | 0.043 | 0.819 | -0.093 | 0.074 |

## Carry over effect

First fit the model:

## Linear mixed model fit by REML ['lmerMod']  
## Formula:   
## painleg3 ~ rantrt + pair + prevtrt + prevtrt:rantrt + (1 | subjectid) +   
## (1 | subjectid:pair) + (1 | subjectid:rantrt)  
## Data: data  
##   
## REML criterion at convergence: 1350.1  
##   
## Scaled residuals:   
## Min 1Q Median 3Q Max   
## -4.0016 -0.5687 0.0045 0.5858 3.2178   
##   
## Random effects:  
## Groups Name Variance Std.Dev.  
## subjectid:pair (Intercept) 1.0539 1.0266   
## subjectid:rantrt (Intercept) 0.4311 0.6566   
## subjectid (Intercept) 0.2971 0.5450   
## Residual 1.2290 1.1086   
## Number of obs: 410, groups:   
## subjectid:pair, 30; subjectid:rantrt, 20; subjectid, 10  
##   
## Fixed effects:  
## Estimate Std. Error t value  
## (Intercept) 5.27096 0.51528 10.229  
## rantrtSham -0.52562 0.37428 -1.404  
## pairPair 2 -0.93297 0.48219 -1.935  
## pairPair 3 -0.38246 0.48057 -0.796  
## prevtrtSham -1.02798 0.31159 -3.299  
## rantrtSham:prevtrtSham 0.06611 0.28742 0.230  
##   
## Correlation of Fixed Effects:  
## (Intr) rntrtS parPr2 parPr3 prvtrS  
## rantrtSham -0.514   
## pairPair 2 -0.529 0.064   
## pairPair 3 -0.512 0.046 0.506   
## prevtrtSham -0.533 0.486 0.128 0.096   
## rntrtShm:pS 0.317 -0.489 -0.078 -0.058 -0.592

Then plot the expected outcome by current and previous treatment:

Outcome by tretment and previous treatment

| prevtrt | rantrt | estimate | std.error | statistic | p.value | conf.low | conf.high |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sham | Sham | 3.355 | 0.374 | 8.961 | 0 | 2.621 | 4.089 |
| Burst stimulation | Sham | 4.317 | 0.355 | 12.166 | 0 | 3.621 | 5.012 |
| Sham | Burst stimulation | 3.812 | 0.345 | 11.036 | 0 | 3.135 | 4.489 |
| Burst stimulation | Burst stimulation | 4.840 | 0.413 | 11.707 | 0 | 4.030 | 5.650 |

Then compute the treatment effect estimate by previous treatment:

| contrast | prevtrt | estimate | std.error | p.value | conf.low | conf.high |
| --- | --- | --- | --- | --- | --- | --- |
| mean(Sham) - mean(Burst stimulation) | Sham | -0.457 | 0.343 | 0.182 | -1.129 | 0.214 |
| mean(Sham) - mean(Burst stimulation) | Burst stimulation | -0.523 | 0.374 | 0.162 | -1.257 | 0.210 |

Finally see if there is a difference:

| estimate | std.error | p.value | conf.low | conf.high |
| --- | --- | --- | --- | --- |
| 0.066 | 0.287 | 0.818 | -0.497 | 0.629 |

# Safety Analysis

| Site name | Subject Id | Date of informed consent | Gender | Alder | Date of first randomisation |  | Full Analysis Set? | Dato for oppstått komplikasjon | Beskrivelse av komplikasjon | Annet |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OUS | 2-01 | 2021-02-18 | Female | 66 | 2021-03-25 | TRUE | TRUE | 2021-04-22 | Tråkket over 14.5, ankelbrudd høyre (Weber A), behandles konservativt, ikke brukt analgetika, oppfattes ikke relatert til ryggmargsstimulering. Hun er deltaker i studien pga. smerter i venstre underekstremitet. | Oppfattes ikke studierelatert |
| OUS | 2-03 | 2021-03-18 | Male | 38 | 2021-05-06 | TRUE | TRUE | 2021-05-06 | Moderate smerter over IPG som ikke påvirker funksjon. Fikk Versatisplaster. | NA |
| OUS | 2-07 | 2021-09-30 | Female | 50 | 2021-11-26 | TRUE | TRUE | 2021-11-12 | Smerter i relasjon til IPG, dette påvirker hennes funksjonsskåringer, utsetter derfor oppstart av burst/sham i to uker | NA |
| OUS | 2-08 | 2022-02-03 | Female | 49 | NA | FALSE | FALSE | 2022-03-17 | Signifikant elektrode-dislokasjon | Signifikant elektrode-dislokasjon, må ekskluderes fra studien |
| Akademiska | 3-003 | 2022-05-10 | Female | 56 | 2022-07-04 | TRUE | FALSE | 2022-07-04 | Ved Kontroll 1 ser man att elektroden har migrerat 2 hela segment kranielt, så att den nu ligger med spetsen/pol 1 vid kraniella delen av Th7. Ingen elektrod över Th9/10, således exklusion. | Elektrod-migration. |
| Akademiska | 3-004 | 2022-05-11 | Male | 55 | 2022-07-04 | TRUE | TRUE | 2022-07-19 | COVID konstaterad 19/7. Lindriga symtom i 3 dagar. | Lindrig COVID 19-21/7. |
| Akademiska | 3-007 | 2022-10-18 | Female | 57 | 2023-01-03 | TRUE | FALSE | 2023-01-03 | Elektrodmigration, ej möjligt att stimulera målområde Th9/10. Således eksklusion. | Elektrodemigration. |
| Akademiska | 3-009 | 2023-02-28 | Male | 45 | 2023-03-28 | TRUE | TRUE | 2023-04-04 | Serom, som spontant går i regress på 3 dager. | Serom |

# Parathesia Coverage

| Site | Subject ID | Parathesia Coverage Leg | Parathesia Coverage Back |
| --- | --- | --- | --- |
| OUS | 2-01 | 100% | 0% |
| OUS | 2-03 | 1-24% | 0% |
| OUS | 2-04 | 100% | 25-49% |
| OUS | 2-05 | 100% | 75-99% |
| OUS | 2-06 | 100% | Ikke relevant |
| OUS | 2-07 | 100% | 0% |
| Akademiska | 3-002 | 100% | 0% |
| Akademiska | 3-004 | 75-99% | 0% |
| Akademiska | 3-008 | 100% | 1-24% |
| Akademiska | 3-009 | 100% | 0% |

# Listings

## Analgetica

| Subject | Studyday | Treatment | Period | Pair | Changed analgetica since last control? | Specify | Changed analgetica last 7 days | Specify | Any other use of analgetica last 7 days? | Specify |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-01 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-01 | 28 days | Sham | 2 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-01 | 42 days | Sham | 3 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-01 | 56 days | Burst stimulation | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-01 | 70 days | Burst stimulation | 5 | Pair 3 | Nei | NA | Nei | NA | Ja | Nobligan 50 mg, men ikke i måleperioden |
| 2-01 | 84 days | Sham | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-03 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-03 | 28 days | Sham | 2 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-03 | 42 days | Sham | 3 | Pair 2 | Nei | NA | Nei | NA | Ja | Ibux pga hodepine 14/6 |
| 2-03 | 56 days | Burst stimulation | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-03 | 77 days | Burst stimulation | 5 | Pair 3 | Nei | NA | Nei | NA | Ja | Ibux x3 én dag for hodepine under spørreskjemautfylling |
| 2-03 | 92 days | Sham | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-04 | 21 days | Burst stimulation | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-04 | 42 days | Sham | 2 | Pair 1 | Nei | NA | Nei | NA | Ja | Typisk 1 Pinex forte noen dager under måle perioden. |
| 2-04 | 56 days | Burst stimulation | 3 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-04 | 70 days | Sham | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-04 | 84 days | Sham | 5 | Pair 3 | Nei | NA | Nei | NA | Ja | Pinex Forte, ettermidag kveld 3 av måletidspunkter |
| 2-04 | 105 days | Burst stimulation | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-05 | 21 days | Sham | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-05 | 35 days | Burst stimulation | 2 | Pair 1 | Nei | NA | Nei | NA | Ja | 1 g paracetamol ekstra på kvelden halvparten av siste 7 måledager |
| 2-05 | 49 days | Burst stimulation | 3 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-05 | 63 days | Sham | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-05 | 77 days | Burst stimulation | 5 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-05 | 91 days | Sham | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-06 | 14 days | Sham | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-06 | 28 days | Burst stimulation | 2 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-06 | 45 days | Burst stimulation | 3 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-06 | 63 days | Sham | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 2-06 | 77 days | Sham | 5 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-06 | 91 days | Burst stimulation | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-07 | 14 days | Sham | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-07 | 38 days | Burst stimulation | 2 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 2-07 | 52 days | Burst stimulation | 3 | Pair 2 | Nei | NA | Nei | NA | Ja | Paracet 1gx2 siste tre dager |
| 2-07 | 66 days | Sham | 4 | Pair 2 | Nei | NA | Nei | NA | Ja | Tramadol fredag 28/1 og lørdag 29/1, Tramadol 50mg |
| 2-07 | 81 days | Sham | 5 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 2-07 | 97 days | Burst stimulation | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 3-002 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 3-002 | 42 days | Sham | 2 | Pair 1 | Nei | NA | Nei | NA | Ja | Paracetamol fulldos i v 5 pga av smärta och infektion (COVID). |
| 3-002 | 56 days | Sham | 3 | Pair 2 | Nei | NA | Nei | NA | Ja | Alvedon till kvällen och enstaka Ipren. |
| 3-002 | 71 days | Burst stimulation | 4 | Pair 2 | Nei | NA | Nei | NA | Ja | Ipren og paracetamol daglig. |
| 3-002 | 85 days | Burst stimulation | 5 | Pair 3 | Nei | NA | Nei | NA | Ja | Paracetamol x 2 under de senaste 14 dagar, |
| 3-002 | 99 days | Sham | 6 | Pair 3 | Nei | NA | Nei | NA | Ja | Naproxen 1x2, Alvedon 2x2, 9/4 pga av huvudvärk. |
| 3-004 | 14 days | Sham | 1 | Pair 1 | Nei | NA | Nei | NA | Ja | Tar som tidigare 2-3 citodon per dag. |
| 3-004 | 36 days | Burst stimulation | 2 | Pair 1 | Nei | NA | Ja | Halverat från 4 till ca 2 Citodon per dygn. | Ja | Citodon 2/dag. |
| 3-004 | 50 days | Burst stimulation | 3 | Pair 2 | Nei | NA | Nei | NA | Ja | (1 tablett Citodon + 1 tablett Alvedon 500 mg) x 2 per dag i genomsnitt under senaste 7 dagar. |
| 3-004 | 64 days | Sham | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 3-004 | 79 days | Sham | 5 | Pair 3 | Nei | NA | Nei | NA | Ja | Citodon 1,5 g och Alvedon 1,5 g per dag senaste 2 veckor. |
| 3-004 | 94 days | Burst stimulation | 6 | Pair 3 | Nei | NA | Nei | NA | Ja | Citodon upp till 1,5 g/dygn |
| 3-008 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA | Nei | NA | Ja | Paracetamol vid två tillfällen senaset 14 dagar. |
| 3-008 | 28 days | Sham | 2 | Pair 1 | Nei | NA | Nei | NA | Ja | Alvedon vb vid två tillfällen. |
| 3-008 | 42 days | Burst stimulation | 3 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 3-008 | 56 days | Sham | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 3-008 | 70 days | Burst stimulation | 5 | Pair 3 | Nei | NA | Nei | NA | Ja | Paracetamol 1g vid två tillfällen senaste 7 dagar. |
| 3-008 | 84 days | Sham | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 3-009 | 15 days | Burst stimulation | 1 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 3-009 | 28 days | Sham | 2 | Pair 1 | Nei | NA | Nei | NA | Nei | NA |
| 3-009 | 43 days | Sham | 3 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 3-009 | 57 days | Burst stimulation | 4 | Pair 2 | Nei | NA | Nei | NA | Nei | NA |
| 3-009 | 71 days | Sham | 5 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |
| 3-009 | 86 days | Burst stimulation | 6 | Pair 3 | Nei | NA | Nei | NA | Nei | NA |

## Adverse reactions to the stimulation

| Subject | Studyday | Treatment | Period | Pair | Any adverse reactions last 14 days? | Specify |
| --- | --- | --- | --- | --- | --- | --- |
| 2-01 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 2-01 | 28 days | Sham | 2 | Pair 1 | Nei | NA |
| 2-01 | 42 days | Sham | 3 | Pair 2 | Nei | NA |
| 2-01 | 56 days | Burst stimulation | 4 | Pair 2 | Ja | Ny sensasjon . Endret kuldefølelse i beinet. |
| 2-01 | 70 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 2-01 | 84 days | Sham | 6 | Pair 3 | Nei | NA |
| 2-03 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 2-03 | 28 days | Sham | 2 | Pair 1 | Nei | NA |
| 2-03 | 42 days | Sham | 3 | Pair 2 | Nei | NA |
| 2-03 | 56 days | Burst stimulation | 4 | Pair 2 | Nei | NA |
| 2-03 | 77 days | Burst stimulation | 5 | Pair 3 | Ja | Kløe over ene hjørnet av IPG, nedre hjørne, medialt. Ingen infeksjonstegn |
| 2-03 | 92 days | Sham | 6 | Pair 3 | Ja | kløe rundt generator |
| 2-04 | 21 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 2-04 | 42 days | Sham | 2 | Pair 1 | Nei | NA |
| 2-04 | 56 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-04 | 70 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-04 | 84 days | Sham | 5 | Pair 3 | Nei | NA |
| 2-04 | 105 days | Burst stimulation | 6 | Pair 3 | Nei | NA |
| 2-05 | 21 days | Sham | 1 | Pair 1 | Ja | Stikker litt over kanten av IPGen |
| 2-05 | 35 days | Burst stimulation | 2 | Pair 1 | Nei | NA |
| 2-05 | 49 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-05 | 63 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-05 | 77 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 2-05 | 91 days | Sham | 6 | Pair 3 | Nei | NA |
| 2-06 | 14 days | Sham | 1 | Pair 1 | Nei | NA |
| 2-06 | 28 days | Burst stimulation | 2 | Pair 1 | Nei | NA |
| 2-06 | 45 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-06 | 63 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-06 | 77 days | Sham | 5 | Pair 3 | Nei | NA |
| 2-06 | 91 days | Burst stimulation | 6 | Pair 3 | Nei | NA |
| 2-07 | 14 days | Sham | 1 | Pair 1 | Nei | NA |
| 2-07 | 38 days | Burst stimulation | 2 | Pair 1 | Nei | NA |
| 2-07 | 52 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-07 | 66 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-07 | 81 days | Sham | 5 | Pair 3 | Nei | NA |
| 2-07 | 97 days | Burst stimulation | 6 | Pair 3 | Nei | NA |
| 3-002 | 14 days | Burst stimulation | 1 | Pair 1 | Ja | Obehag över dosfickan i ett par dagar (för ca 7 dagar sedan, |
| 3-002 | 42 days | Sham | 2 | Pair 1 | Nei | NA |
| 3-002 | 56 days | Sham | 3 | Pair 2 | Nei | NA |
| 3-002 | 71 days | Burst stimulation | 4 | Pair 2 | Nei | NA |
| 3-002 | 85 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 3-002 | 99 days | Sham | 6 | Pair 3 | Nei | NA |
| 3-004 | 14 days | Sham | 1 | Pair 1 | Nei | NA |
| 3-004 | 36 days | Burst stimulation | 2 | Pair 1 | Ja | Lätt sveda över IPG-fickan. |
| 3-004 | 50 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 3-004 | 64 days | Sham | 4 | Pair 2 | Ja | Möjligt att kramper är relaterat till stimulering? Viss ömhet över IPG fortfarande. |
| 3-004 | 79 days | Sham | 5 | Pair 3 | Nei | NA |
| 3-004 | 94 days | Burst stimulation | 6 | Pair 3 | Ja | Smärta/obehag vid beröring av IPG. |
| 3-008 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 3-008 | 28 days | Sham | 2 | Pair 1 | Nei | NA |
| 3-008 | 42 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 3-008 | 56 days | Sham | 4 | Pair 2 | Nei | NA |
| 3-008 | 70 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 3-008 | 84 days | Sham | 6 | Pair 3 | Nei | NA |
| 3-009 | 15 days | Burst stimulation | 1 | Pair 1 | Ja | Kortvarig icke-infektiös svullnad över dosficka och ankare för 10 dagar sedan. |
| 3-009 | 28 days | Sham | 2 | Pair 1 | Nei | NA |
| 3-009 | 43 days | Sham | 3 | Pair 2 | Nei | NA |
| 3-009 | 57 days | Burst stimulation | 4 | Pair 2 | Nei | NA |
| 3-009 | 71 days | Sham | 5 | Pair 3 | Nei | NA |
| 3-009 | 86 days | Burst stimulation | 6 | Pair 3 | Nei | NA |

## Technical problems

| Subject | Studyday | Treatment | Period | Pair | Any technical problems last 14 days? | Specify |
| --- | --- | --- | --- | --- | --- | --- |
| 2-01 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 2-01 | 28 days | Sham | 2 | Pair 1 | Nei | NA |
| 2-01 | 42 days | Sham | 3 | Pair 2 | Nei | NA |
| 2-01 | 56 days | Burst stimulation | 4 | Pair 2 | Nei | NA |
| 2-01 | 70 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 2-01 | 84 days | Sham | 6 | Pair 3 | Nei | NA |
| 2-03 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 2-03 | 28 days | Sham | 2 | Pair 1 | Ja | Butikkalarm gikk av én gang, ikke andre ganger. |
| 2-03 | 42 days | Sham | 3 | Pair 2 | Ja | Kom borti strømgjere ved et uhell, kjente ekstra sterk støt. Lurer på om det kan ha hatt noe med stimulatoren å gjøre |
| 2-03 | 56 days | Burst stimulation | 4 | Pair 2 | Nei | NA |
| 2-03 | 77 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 2-03 | 92 days | Sham | 6 | Pair 3 | Nei | NA |
| 2-04 | 21 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 2-04 | 42 days | Sham | 2 | Pair 1 | Nei | NA |
| 2-04 | 56 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-04 | 70 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-04 | 84 days | Sham | 5 | Pair 3 | Nei | NA |
| 2-04 | 105 days | Burst stimulation | 6 | Pair 3 | Nei | NA |
| 2-05 | 21 days | Sham | 1 | Pair 1 | Nei | NA |
| 2-05 | 35 days | Burst stimulation | 2 | Pair 1 | Nei | NA |
| 2-05 | 49 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-05 | 63 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-05 | 77 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 2-05 | 91 days | Sham | 6 | Pair 3 | Nei | NA |
| 2-06 | 14 days | Sham | 1 | Pair 1 | Nei | NA |
| 2-06 | 28 days | Burst stimulation | 2 | Pair 1 | Nei | NA |
| 2-06 | 45 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-06 | 63 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-06 | 77 days | Sham | 5 | Pair 3 | Nei | NA |
| 2-06 | 91 days | Burst stimulation | 6 | Pair 3 | Nei | NA |
| 2-07 | 14 days | Sham | 1 | Pair 1 | Nei | NA |
| 2-07 | 38 days | Burst stimulation | 2 | Pair 1 | Nei | NA |
| 2-07 | 52 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 2-07 | 66 days | Sham | 4 | Pair 2 | Nei | NA |
| 2-07 | 81 days | Sham | 5 | Pair 3 | Nei | NA |
| 2-07 | 97 days | Burst stimulation | 6 | Pair 3 | Nei | NA |
| 3-002 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 3-002 | 42 days | Sham | 2 | Pair 1 | Nei | NA |
| 3-002 | 56 days | Sham | 3 | Pair 2 | Nei | NA |
| 3-002 | 71 days | Burst stimulation | 4 | Pair 2 | Nei | NA |
| 3-002 | 85 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 3-002 | 99 days | Sham | 6 | Pair 3 | Nei | NA |
| 3-004 | 14 days | Sham | 1 | Pair 1 | Nei | NA |
| 3-004 | 36 days | Burst stimulation | 2 | Pair 1 | Nei | NA |
| 3-004 | 50 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 3-004 | 64 days | Sham | 4 | Pair 2 | Nei | NA |
| 3-004 | 79 days | Sham | 5 | Pair 3 | Nei | NA |
| 3-004 | 94 days | Burst stimulation | 6 | Pair 3 | Nei | NA |
| 3-008 | 14 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 3-008 | 28 days | Sham | 2 | Pair 1 | Nei | NA |
| 3-008 | 42 days | Burst stimulation | 3 | Pair 2 | Nei | NA |
| 3-008 | 56 days | Sham | 4 | Pair 2 | Nei | NA |
| 3-008 | 70 days | Burst stimulation | 5 | Pair 3 | Nei | NA |
| 3-008 | 84 days | Sham | 6 | Pair 3 | Nei | NA |
| 3-009 | 15 days | Burst stimulation | 1 | Pair 1 | Nei | NA |
| 3-009 | 28 days | Sham | 2 | Pair 1 | Nei | NA |
| 3-009 | 43 days | Sham | 3 | Pair 2 | Nei | NA |
| 3-009 | 57 days | Burst stimulation | 4 | Pair 2 | Nei | NA |
| 3-009 | 71 days | Sham | 5 | Pair 3 | Nei | NA |
| 3-009 | 86 days | Burst stimulation | 6 | Pair 3 | Nei | NA |

# Suppementary Materials

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