**Participant flow**

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**Baseline characteristics**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **Ozone** | **Placebo** | **Total** | ***p*** |
| **Age (years)** |  |  |  | 0.533\* |
| Medium (SD) | 70.50 (7.20) | 69.50 (7.60) | 70.10 (7.30) |  |
| **Schooling** |  |  |  | 0.218\*\* |
| None | 5 (8.20) | 5 (14.30) | 10 (10.40) |  |
| 1st degree | 38 (49.20) | 21 (60.00) | 59 (61.40) |  |
| 2nd degree | 14 (23.00) | 9 (25.70) | 23 (24.00) |  |
| Superior | 4 (6.60) | 0 (0.00) | 4 (4.20) |  |
| **Marital status** |  |  |  | 0.044\*\*\* |
| Single | 8 (13.10) | 0 (0.00) | 8 (8.30) |  |
| Married | 31 (50.80) | 22 (62.90) | 53 (55.20) |  |
| Divorced/separated | 5 (8.20) | 2 (5.70) | 7 (7.30) |  |
| Widow | 17 (27.90) | 11 (31.40) | 28 (29.20) |  |
| **Sex** |  |  |  | 0.489\*\*\*\* |
| Female | 56 (91.80) | 30 (85.70) | 86 (89.60) |  |
| Male | 5 (8.20) | 5 (14.30) | 10 (10.40) |  |
| **Race** |  |  |  | 0.062\*\*\* |
| Caucasian | 49 (80.30) | 22 (62.90) | 71 (74.00) |  |
| Negro | 10 (16.40) | 13 (37.20) | 23 (23.90) |  |
| Mongolian | 2 (3.30) | 0 (0.00) | 2 (2.10) |  |
| **Knee** |  |  |  | 0.148 |
| Right | 29 (47.50) | 22 (62.90) | 51 (53.10) |  |
| Left | 32 (52.50) | 13 (37.10) | 45 (46.90) |  |

Qui-squared test, \*t-Student test, \*\*Mann-Whitney’s test
\*\*\*Likelihood ratio test, \*\*\*\*Fisher’s exact test

**Outcome measures**

Results from Visual Analogic Scale and Geriatric Pain Measure

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Scale/** **Groups PBO - OZ** | **Comparison** | **MD** | **SE** | **p** | **Inferior (CI 95%)** | **Superior (CI 95%)** |
| **VAS** | Basal | 0.06 | 0.56 | <0.999 | - 1.68 | 1.79 |
| **VAS** | 4 weeks | 1.72 | 0.56 | 0.055 | - 0.02 | 3.46 |
| **VAS** | 8 weeks | 2.16 | 0.56 | 0.003 | 0.42 | 3.89 |
| **VAS** | 16 weeks | 3.16 | 0.56 | <0.001 | 1.42 | 4.89 |
| **GPM** | Basal | 4.63 | 4.96 | >0.999 | -10.87 | 20.14 |
| **GPM** | 4 weeks | 18.75 | 4.96 | 0.004 | 3.25 | 34.26 |
| **GPM** | 8 weeks | 18.94 | 4.96 | 0.004 | 3.43 | 34.44 |
| **GPM** | 16 weeks | 23.10 | 4.96 | <0.001 | 7.60 | 38.61 |

MD = medium difference, SE = standard error, CI = confidence interval
VAS = Visual Analogic Scale, GPM = Geriatric Pain Measure

Results from Lequesne’s Index

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Lequesne’s Index /Groups PBO - OZ** | **Comparison** | **MD** | **SE** | **p** | **Inferior (CI 95%)** | **Superior (CI 95%)** |
|  | Basal | 1.55 | 0.95 | <0.999 | - 1.40 | 4.51 |
| 4 weeks | 3.85 | 0.95 | 0.001 | 0.90 | 6.81 |
| 8 weeks | 4.05 | 0.95 | 0.001 | 1.10 | 7.00 |
| 16 weeks | 4.39 | 0.95 | <0.001 | 1.44 | 7.35 |

MD = medium difference, SE = standard error, CI = confidence interval, LEQ =Lequesne’s Index

Results from Womac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   |  | **Group** |  | **CI95% median of diff** |  |
|   |  | **Ozônio** | **Placebo** | **Median of diff** | **Lower** | **Upper** | **P-value** |
| **Dor** | **Semana 1** | 50,0 (40; 70) | 60,0 (42; 70) | 0.000 | -9.999 | 10,000 | 0,752 |
| **Semana 4** | 20,0 (7; 37) | 45,0 (25; 60) | 15.000 | 5.000 | 25.000 | <0.001 |
| **Semana 8** | 10,0 (0; 30) | 20,0 (10; 40) | 9.999 | 0.000 | 15.000 | 0.019 |
| **Semana 16** | 10,0 (0; 20) | 25,0 (2; 52) | 14.999 | 0.000 | 25.000 | 0.005 |
| **Rigidez** | **Semana 1** | 37,5 (25; 62) | 37,5 (25; 62) | 0.000 | -12.499 | 12.499 | 0.5695 |
| **Semana 4** | 0,0 (0,0; 12) | 12,5 (0; 25) | 0.000 | 0.000 | 12.500 | 0.0336 |
| **Semana 8** | 0,0 (0,0; 12,5) | 12,5 (0; 25) | 12.499 | 0.000 | 12.500 | <0.001 |
| **Semana 16** | 0,0 (0; 0) | 0,0 (0; 12) | 0.000 | 0.000 | 0.000 | 0.1135 |
| **Déficit Funcional** | **Semana 1** | 44,1 (26; 68) | 50,0 (40; 61) | 5.879 | -44.100 | 147.100 | 0.2973 |
| **Semana 4** | 17,6 (9; 31) | 33,8 (26; 51) | 16.170 | 7.350 | 23.529 | <0.001 |
| **Semana 8** | 11,7 (3; 26) | 27,9 (14; 35) | 11.760 | 4.409 | 19.119 | 0.003 |
| **Semana 16** | 11,8 (2; 24) | 25,0 (7; 35) | 7.350 | 1.469 | 16.180 | 0.016 |

Mann-Whitney U Test, Median of diff: median of difference, CI 95%: confidence interval, Hodges-Lehmann methods

Results from SF-36 Health Survey Instrument

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SF-36Groups** **PBO/OZ** | **Time** | **MD** | **SE** | **p** | **Inferior (CI 95%)** | **Superior (CI 95%)** |
| **FC** |  | -12.99 | 4.64 | 0.005 | -22.08 | -3.90 |
|  | Basal – 4 weeks | -20.51 | 2.31 | <0.001 | -26.59 | -14.43 |
| Basal – 8 weeks | -25.82 | 2.97 | <0.001 | -33.65 | -17.99 |
| Basal – 16 weeks | -27.70 | 3.42 | <0.001 | -36.73 | -18.67 |
| **PH** |  | -23.30 | 5.62 | <0.001 | -34.32 | -12.27 |
|  | Basal – 4 weeks | -29.93 | 4.40 | <0.001 | -41.53 | -18.33 |
| Basal – 8 weeks | -40.82 | 5.18 | <0.001 | -54.48 | -27.17 |
| Basal – 16 weeks | -37.72 | 5.65 | <0.001 | -52.61 | -22.82 |
| **GSH** |  | -1.92 | 0.61 | 0.002 | -3.13 | -0.72 |
|  | Basal – 4 weeks | -1.96 | 0.45 | <0.001 | -3.16 | -0.77 |
| Basal – 8 weeks | -3.38 | 0.55 | <0.001 | -4.83 | -1.93 |
| Basal – 16 weeks | -2.40 | 0.59 | <0.001 | -3.95 | -0.85 |
| **SA** |  | -4.46 | 2.18 | 0.041 | -8.74 | -0.18 |
|  | Basal – 4 weeks | -8.99 | 1.85 | <0.001 | -13.87 | -4.11 |
| Basal – 8 weeks | -13.96 | 2.17 | <0.001 | -19.67 | -8.24 |
| Basal – 16 weeks | -13.29 | 2.28 | <0.001 | -19.32 | -7.27 |
| **EA** |  | -21.43 | 5.02 | <0.001 | - 31.27 | -11.60 |
|  | Basal – 4 weeks | -26.23 | 4.45 | <0.001 | -37.98 | -14.48 |
| Basal – 8 weeks | -35.37 | 5.11 | <0.001 | -48.86 | -21.89 |
| Basal – 16 weeks | -31.17 | 5.45 | <0.001 | -46.09 | -17.32 |

FC = Functional Capacity, PH = Physical Health, GSH = General Status of Health,
SA = Social Aspects, EA = Emotional Aspects

**Adverse events**

|  |  |  |
| --- | --- | --- |
| **Adverse events** | **Ozone group** | **Placebo group** |
| Puncture accidents | 01 patient | 02 patients |