**Supplemental Table 1.** Subgroup analysis by age < 60 years

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Co-injection group (n = 20) | Hyaluronic acid group (n = 22) | p value |
| Gender |  |  | 0.30 |
| Man | 6 | 10 |  |
| Woman | 14 | 12 |  |
| Age in years | 56 ± 14 | 58 ± 18 | 0.60 |
| Height in cm | 159 ± 21 | 156 ± 29 | 0.69 |
| Weight in kg | 66 ± 20 | 65 ± 18 | 0.86 |
| BMI in kg/m2 | 26 ± 6 | 27 ± 9 | 0.67 |
| BMI group |  |  | 0.61 |
| < 24 | 5 | 3 |  |
| 24 to 27 | 8 | 9 |  |
| ≥ 27 | 7 | 10 |  |
| Marital status |  |  | 0.42 |
| Single | 4 | 7 |  |
| Married | 15 | 15 |  |
| Divorced | 1 | 0 |  |
| Educational level |  |  | 0.52 |
| Below 12th grade | 12 | 11 |  |
| Above 12th grade | 8 | 11 |  |
| Concurrent physical therapy | |  | 0.67 |
| Yes | 2 | 2 |  |
| None | 18 | 20 |  |
| Smoking |  |  | 0.23 |
| Never smoked | 20 | 19 |  |
| Former smoker | 0 | 2 |  |
| Current smoker | 0 | 1 |  |
| Alcohol consumption |  |  | 0.87 |
| Never consumed | 15 | 16 |  |
| Current consumer | 5 | 6 |  |
| Kellgren–Lawrence class | |  | 0.69 |
| 2 | 13 | 13 |  |
| 3 | 7 | 9 |  |
| ASA class |  |  | 0.30 |
| I | 15 | 12 |  |
| II | 5 | 9 |  |
| III | 0 | 1 |  |
| Physical function performance | |  |  |
| Regular walking speed (m/sec) | 0.45 ± 0.10 | 0.50 ± 0.10 | 0.11 |
| Fastest walking speed (m/sec) | 0.68 ± 0.25 | 0.78 ± 0.28 | 0.23 |
| Stair ascent time (sec) | 45.5 ± 33.2 | 47.0 ± 28.6 | 0.88 |
| Stair descent time (sec) | 41.9 ± 25.6 | 43.3 ± 27.2 | 0.87 |
| Chair-rising time (sec) | 42.3 ± 11.0 | 40.2 ± 11.1 | 0.54 |
| WOMAC |  |  |  |
| Pain | 153 ± 113 | 165 ± 123 | 0.74 |
| Stiffness | 77 ± 60 | 65 ± 53 | 0.52 |
| Physical function | 507 ± 356 | 551 ± 383 | 0.70 |
| KOOS |  |  |  |
| Pain | 77 ± 15 | 77 ± 15 | 0.93 |
| Other symptoms | 71 ± 16 | 73 ± 16 | 0.75 |
| Activities of daily living | 66 ± 30 | 76 ± 18 | 0.19 |
| Sports and recreation | 51 ± 19 | 56 ± 18 | 0.41 |
| Quality of life | 56 ± 17 | 51 ± 20 | 0.41 |

Data are presented as the mean ± SD. ASA = American Society of Anesthesiologists physical status classification; KOOS = Knee Injury and Osteoarthritis Score.