

Additional file 5 Health-Related Quality of Life in Relation to Symptomatic and Radiographic Definitions of Knee Osteoarthritis: Data from Osteoarthritis Initiative (OAI) 4-Year Follow-Up Study

These tables report pairwise differences between estimated marginal means of SF-6D-disutility scores from GEE-analyses.

Table S13 Pairwise differences between estimated marginal means of SF-6D-disutility score from GEE-analyses, symptomatic OA status (2-scale), K-L grade ≥ 2 and knee pain on more than half the days during past month in the same knee

| Symptomatic OA status | No | Yes |
|------------------------------|-----------|------------|
| No | | -0.025* |
| Yes | 0.025* | |

*The mean difference is significant at the $p < 0.05$ level

Table S14 Pairwise differences between estimated marginal means of SF-6D-disutility score from GEE-analyses, K-L grade ≥ 2 (2-scale)

| K-L grade ≥ 2 | No | Yes |
|--------------------------------------|-----------|------------|
| No | | -0.006* |
| Yes | 0.006* | |

*The mean difference is significant at the $p < 0.05$ level

Table S15 Pairwise differences between estimated marginal means of SF-6D-disutility score from GEE-analyses, symptomatic OA status (3-scale), K-L grade ≥ 2 and knee pain on more than half the days during past month in the same knee

| Symptomatic OA status | No | Yes, unilateral | Yes, bilateral |
|------------------------------|-----------|------------------------|-----------------------|
| No | | -0.024* | -0.030* |
| Yes, unilateral | 0.024* | | -0.006 |
| Yes, bilateral | 0.030* | 0.006 | |

*The mean difference is significant at the $p < 0.05$ level

Table S16 Pairwise differences between estimated marginal means of SF-6D-disutility score from GEE-analyses, K-L grade ≥ 2 (3-scale)

| K-L grade ≥ 2 | No | Yes, unilateral | Yes, bilateral |
|--------------------------------------|-----------|------------------------|-----------------------|
| No | | -0.001 | -0.013* |
| Yes, unilateral | 0.001 | | -0.012* |
| Yes, bilateral | 0.013* | 0.012* | |

*The mean difference is significant at the $p < 0.05$ level

Table S17 Pairwise differences between estimated marginal means of SF-6D-disutility score from GEE-analyses, the highest K-L grade

| K-L grade | 0 | 1 | 2 | 3 | 4 |
|------------------|----------|----------|----------|----------|----------|
| 0 | | -0.002 | -0.004 | -0.008 | -0.027* |
| 1 | 0.002 | | -0.002 | -0.007 | -0.025* |
| 2 | 0.004 | 0.002 | | -0.005 | -0.023* |
| 3 | 0.008 | 0.007 | 0.005 | | -0.018* |
| 4 | 0.027* | 0.025* | 0.023* | 0.018* | |

*The mean difference is significant at the $p < 0.05$ level

Table S18 Pairwise differences between estimated marginal means of SF-6D-disutility score from GEE-analyses, mean of K-L grades

| K-L grade | 0.0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
|------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | | -0.002 | 0.004 | -0.003 | -0.012* | -0.008 | -0.019* | -0.036* | -0.040* |
| 0.5 | 0.002 | | 0.006 | 0.000 | -0.010 | -0.006 | -0.017* | -0.034* | -0.038* |
| 1.0 | -0.004 | -0.006 | | -0.007 | -0.016* | -0.012* | -0.023* | -0.040* | -0.044* |
| 1.5 | 0.003 | 0.000 | 0.007 | | -0.010* | -0.005 | -0.016* | -0.034* | -0.038* |
| 2.0 | 0.012* | 0.010 | 0.016* | 0.010* | | 0.005 | -0.006 | -0.024* | -0.028* |
| 2.5 | 0.008 | 0.006 | 0.012* | 0.005 | -0.005 | | -0.011* | -0.028* | -0.032* |
| 3.0 | 0.019* | 0.017* | 0.023* | 0.016* | 0.006 | 0.011* | | -0.017* | -0.021 |
| 3.5 | 0.036* | 0.034* | 0.040* | 0.034* | 0.024* | 0.028* | 0.017* | | -0.004 |
| 4.0 | 0.040* | 0.038* | 0.044* | 0.038* | 0.028* | 0.032* | 0.021 | 0.004 | |

*The mean difference is significant at the $p < 0.05$ level

Table S19 Pairwise differences between estimated marginal means of SF-6D-disutility score from GEE-analyses, combination of K-L grades

| K-L grades | (0;0) | (1;0) | (1;1) | (2;0) | (2;1) | (2;2) | (3;0) | (3;1) | (3;2) | (3;3) | (4;0) | (4;1) | (4;2) | (4;3) | (4;4) |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| (0;0) | | -0.002 | 0.000 | 0.006 | -0.003 | -0.012* | -0.002 | -0.009 | -0.008 | -0.018* | -0.028* | -0.011 | -0.021* | -0.036* | -0.040* |
| (1;0) | 0.002 | | 0.002 | 0.008 | -0.001 | -0.009 | 0.000 | -0.007 | -0.005 | -0.016* | -0.026* | -0.009 | -0.018* | -0.034* | -0.038* |
| (1;1) | 0.000 | -0.002 | | 0.006 | -0.004 | -0.012 | -0.003 | -0.009 | -0.008 | -0.018* | -0.029* | -0.011 | -0.021* | -0.036* | -0.040* |
| (2;0) | -0.006 | -0.008 | -0.006 | | -0.010 | -0.018* | -0.008 | -0.015* | -0.014* | -0.024* | -0.034* | -0.017 | -0.027* | -0.042* | -0.046* |
| (2;1) | 0.003 | 0.001 | 0.004 | 0.010 | | -0.008 | 0.001 | -0.006 | -0.004 | -0.015* | -0.025* | -0.007 | -0.017* | -0.033* | -0.037* |
| (2;2) | 0.012* | 0.009 | 0.012 | 0.018* | 0.008 | | 0.009 | 0.002 | 0.004 | -0.007 | -0.017 | 0.001 | -0.009 | -0.025* | -0.029* |
| (3;0) | 0.002 | 0.000 | 0.003 | 0.008 | -0.001 | -0.009 | | -0.007 | -0.005 | -0.016* | -0.026* | -0.008 | -0.018 | -0.034* | -0.038* |
| (3;1) | 0.009 | 0.007 | 0.009 | 0.015* | 0.006 | -0.002 | 0.007 | | 0.002 | -0.009 | -0.019 | -0.002 | -0.011 | -0.027* | -0.031* |
| (3;2) | 0.008 | 0.005 | 0.008 | 0.014* | 0.004 | -0.004 | 0.005 | -0.002 | | -0.011 | -0.021 | -0.003 | -0.013 | -0.029* | -0.033* |
| (3;3) | 0.018* | 0.016* | 0.018* | 0.024* | 0.015* | 0.007 | 0.016* | 0.009 | 0.011 | | -0.010 | 0.007 | -0.002 | -0.018* | -0.022* |
| (4;0) | 0.028* | 0.026* | 0.029* | 0.034* | 0.025* | 0.017 | 0.026* | 0.019 | 0.021 | 0.010 | | 0.018 | 0.008 | -0.008 | -0.012 |
| (4;1) | 0.011 | 0.009 | 0.011 | 0.017 | 0.007 | -0.001 | 0.008 | 0.002 | 0.003 | -0.007 | -0.018 | | -0.010 | -0.025 | -0.029 |
| (4;2) | 0.021* | 0.018* | 0.021* | 0.027* | 0.017* | 0.009 | 0.018 | 0.011 | 0.013 | 0.002 | -0.008 | 0.010 | | -0.016 | -0.020 |
| (4;3) | 0.036* | 0.034* | 0.036* | 0.042* | 0.033* | 0.025* | 0.034* | 0.027* | 0.029* | 0.018* | 0.008 | 0.025 | 0.016 | | -0.004 |
| (4;4) | 0.040* | 0.038* | 0.040* | 0.046* | 0.037* | 0.029* | 0.038* | 0.031* | 0.033* | 0.022* | 0.012 | 0.029 | 0.020 | 0.004 | |

*The mean difference is significant at the p<0.05 level