

Appendix

Head angle

Despite prior correlations with gait, no significant variance could be explained by SF-36 *physical component* ($\Delta R^2 = .071$, $\Delta F = 0.758$, $p = .390$) nor the SF-36 subscale item *role limitations due to physical health* ($\Delta R^2 = .029$, $\Delta F = 1.240$, $p = .273$). The same applied to the parameters previously shown to differ between groups, such as EQ5D, ODI and SF-36 outcomes, i.e., *EQ Index* ($\Delta R^2 = .057$, $\Delta F = 0.190$, $p = .666$), *EQ VAS* ($\Delta R^2 = .000$, $\Delta F = 0.010$, $p = .921$), *ODI score* ($\Delta R^2 = .000$, $\Delta F = 0.004$, $p = .947$), self-reported *moderate exercise in the preceding week* ($\Delta R^2 = .034$, $\Delta F = 1.434$, $p = .239$), and the SF-36 subscales *bodily pain* ($\Delta R^2 = .007$, $\Delta F = 0.303$, $p = .586$), *physical function* ($\Delta R^2 = .058$, $\Delta F = 0.245$, $p = .623$) and *vitality* ($\Delta R^2 = .017$, $\Delta F = 0.734$, $p = .397$). However, *back pain rating* explained a significant amount of variance ($\Delta R^2 = .129$, $\Delta F = 5.984$, $p = .019$), beyond group.

Trunk angle:

In line with the results for head angle, the outcome measures with significant differences between cases and controls did not explain a significant amount of variance. Thus, no significant change could be found for the following: *EQ VAS* ($\Delta R^2 = .011$, $\Delta F = 0.515$, $p = .477$), *ODI score* ($\Delta R^2 = .033$, $\Delta F = 1.539$, $p = .223$), *back pain rating* ($\Delta R^2 = .010$, $\Delta F = 0.444$, $p = .509$), SF-36 *physical component score* ($\Delta R^2 = .047$, $\Delta F = 2.231$, $p = .144$), SF-36 subscale items *physical function* ($\Delta R^2 = .040$, $\Delta F = 1.853$, $p = .182$), *vitality* ($\Delta R^2 = .010$, $\Delta F = 0.435$, $p = .514$), *bodily pain* ($\Delta R^2 = .015$, $\Delta F = 0.659$, $p = .422$) and *role limitations due to physical health* ($\Delta R^2 = .135$, $\Delta F = 0.435$, $p = .514$). However, the self-reported *moderate exercise in the preceding week* ($\Delta R^2 = .083$, $\Delta F = 4.128$, $p = .049$) as well as the *EQ-5D index* ($\Delta R^2 = .102$, $\Delta F = 5.185$, $p = .029$) were found to explain a significant amount of variance. The final models can be found in Table 2.