Table S1. *ANCOVA of change in BMI SDS from baseline to follow-up in subgroups by age and sex*

|  |
| --- |
| Subpopulation: Younger |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 562 |   1.4 ( 0.38) | 562 |   1.4 ( 0.51) | 562 |   0.0 ( 0.41) |  0.01 (-0.03, 0.04) |
| Full participation | 122 |   1.6 ( 0.35) | 122 |   1.5 ( 0.49) | 122 |  -0.1 ( 0.40) | -0.10 (-0.17,-0.03) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.11 (-0.19,-0.03) |   0.010 |
| Subpopulation: Older |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 329 |   1.4 ( 0.29) | 329 |   1.3 ( 0.64) | 329 | -0.0 ( 0.58) | -0.04 (-0.11, 0.02) |
| Full participation | 119 |   1.5 ( 0.31) | 119 |   1.4 ( 0.59) | 119 | -0.1 ( 0.51) | -0.08 (-0.18, 0.03) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.03 (-0.15, 0.09) |   0.603 |
| Subpopulation: Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 451 | 1.4 ( 0.37) | 451 | 1.4 ( 0.61) | 451 |  0.0 ( 0.52) |  0.01 (-0.04, 0.05) |
| Full participation | 122 |  1.5 ( 0.33) | 122 | 1.4 ( 0.57) | 122 | -0.1 ( 0.48) | -0.10 (-0.19,-0.00) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.10 (-0.21, 0.00) |  0.054 |
| Subpopulation: Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 440 |  1.4 ( 0.33) | 440 |  1.4 ( 0.51) | 440 |  -0.0 ( 0.44) | -0.03 (-0.07, 0.01) |
| Full participation | 119 |  1.6 ( 0.34) | 119 |  1.5 ( 0.52) | 119 |  -0.1 ( 0.44) | -0.07 (-0.15, 0.01) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.04 (-0.13, 0.05) |  0.401 |
| Subpopulation: Younger & Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 297 |   1.3 ( 0.40) | 297 |   1.4 ( 0.55) | 297 |   0.1 ( 0.43) |  0.05 ( 0.00, 0.10) |
| Full participation | 72 |   1.6 ( 0.35) | 72 |   1.5 ( 0.52) | 72 |  -0.1 ( 0.40) | -0.08 (-0.18, 0.02) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.13 (-0.24,-0.02) |   0.025 |
| Subpopulation: Younger & Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 265 |   1.4 ( 0.36) | 265 |   1.4 ( 0.47) | 265 |  -0.0 ( 0.39) | -0.04 (-0.09, 0.01) |
| Full participation | 50 |   1.6 ( 0.34) | 50 |   1.5 ( 0.46) | 50 | -0.2 ( 0.40) | -0.13 (-0.24,-0.03) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.09 (-0.21, 0.03) |   0.124 |
| Subpopulation: Older & Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 154 |   1.4 ( 0.30) | 154 |   1.3 ( 0.70) | 154 |  -0.1 ( 0.64) | -0.08 (-0.18, 0.02) |
| Full participation | 50 |   1.5 ( 0.28) | 50 |   1.3 ( 0.62) | 50 |  -0.1 ( 0.57) | -0.12 (-0.30, 0.06) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.04 (-0.25, 0.16) |   0.677 |
| Subpopulation: Older & Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 175 |   1.4 ( 0.27) | 175 |   1.4 ( 0.58) | 175 |  -0.0 ( 0.52) | -0.02 (-0.09, 0.06) |
| Full participation | 69 |   1.5 ( 0.33) | 69 |   1.5 ( 0.56) | 69 |  -0.0 ( 0.45) | -0.03 (-0.15, 0.09) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.02 (-0.16, 0.13) |   0.822 |
| aBased on an ANCOVA model after adjusting baseline BMI SDS and observation time.ANCOVA = Analysis of Covariance, CI = Confidence Interval, LS = Least Squares, SD = Standard Deviation |

Table S2. *ANCOVA of change in SBP SDS from baseline to follow-up in subgroups by age and sex*

|  |
| --- |
| Subpopulation: Younger |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 562 |   0.3 ( 0.91) | 562 |   0.3 ( 0.99) | 562 |  -0.1 ( 1.14) | -0.06 (-0.14, 0.02) |
| Full participation | 122 |   0.3 ( 0.88) | 122 |   0.2 ( 1.01) | 122 |  -0.1 ( 1.17) | -0.17 (-0.34, 0.00) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.11 (-0.30, 0.08) |   0.253 |
| Subpopulation: Older |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 329 |   0.6 ( 0.97) | 329 |   1.1 ( 1.02) | 329 |   0.5 ( 1.09) |  0.51 ( 0.41, 0.61) |
| Full participation | 119 |   0.4 ( 0.92) | 119 |   1.0 ( 1.05) | 119 |   0.6 ( 1.06) |  0.48 ( 0.31, 0.65) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.03 (-0.23, 0.17) |   0.769 |
| Subpopulation: Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 451 | 0.4 ( 0.95) | 451 | 0.5 ( 1.01) | 451 | 0.1 ( 1.11) | 0.15 ( 0.06, 0.23) |
| Full participation | 122 | 0.2 ( 0.89) | 122 | 0.4 ( 1.07) | 122 | 0.1 ( 1.15) | 0.05 (-0.12, 0.22) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.10 (-0.29, 0.10) |  0.329 |
| Subpopulation: Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 440 |  0.5 ( 0.93) | 440 |  0.7 ( 1.13) | 440 |  0.2 ( 1.20) |  0.16 ( 0.06, 0.26) |
| Full participation | 119 |  0.5 ( 0.90) | 119 |  0.8 ( 1.12) | 119 |  0.3 ( 1.18) |  0.26 ( 0.07, 0.45) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | 0.10 (-0.12, 0.31) |  0.377 |
| Subpopulation: Younger & Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 297 |   0.3 ( 0.90) | 297 |   0.3 ( 0.99) | 297 |   0.0 ( 1.14) |  0.02 (-0.09, 0.13) |
| Full participation | 72 |   0.2 ( 0.86) | 72 |  -0.0 ( 1.02) | 72 |  -0.2 ( 1.13) | -0.26 (-0.48,-0.03) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.27 (-0.52,-0.03) |   0.031 |
| Subpopulation: Younger & Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 265 |   0.4 ( 0.92) | 265 |   0.3 ( 0.99) | 265 |  -0.2 ( 1.15) | -0.15 (-0.26,-0.03) |
| Full participation | 50 |   0.4 ( 0.90) | 50 |   0.4 ( 0.95) | 50 |   0.0 ( 1.24) | -0.03 (-0.29, 0.24) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation |  0.12 (-0.17, 0.41) |   0.420 |
| Subpopulation: Older & Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 154 |   0.6 ( 1.00) | 154 |   0.9 ( 0.92) | 154 |   0.3 ( 1.03) |  0.39 ( 0.26, 0.52) |
| Full participation | 50 |   0.3 ( 0.95) | 50 |   0.9 ( 0.88) | 50 |   0.7 ( 1.00) |  0.50 ( 0.26, 0.73) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation |  0.11 (-0.16, 0.38) |   0.425 |
| Subpopulation: Older & Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 175 |   0.6 ( 0.94) | 175 |   1.2 ( 1.09) | 175 |   0.6 ( 1.13) | 0.62 ( 0.47, 0.78) |
| Full participation | 69 |   0.5 ( 0.90) | 69 |   1.0 ( 1.17) | 69 |   0.5 ( 1.10) |  0.46 ( 0.22, 0.70) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.17 (-0.45, 0.12) |   0.254 |
| aBased on an ANCOVA model after adjusting baseline SBP SDS and observation time.ANCOVA = Analysis of Covariance, CI = Confidence Interval, LS = Least Squares, SD = Standard Deviation |

Table S3. *ANCOVA of change in DBP SDS from baseline to follow-up in subgroups by age and sex*

|  |
| --- |
| Subpopulation: Younger |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 562 |   1.2 ( 0.86) | 562 |   1.1 ( 0.97) | 562 |  -0.0 ( 1.16) | -0.02 (-0.10, 0.06) |
| Full participation | 122 |   1.1 ( 0.86) | 122 |   1.0 ( 0.99) | 122 |  -0.1 ( 1.20) | -0.12 (-0.29, 0.05) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.10 (-0.29, 0.09) |   0.293 |
| Subpopulation: Older |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 329 |   1.2 ( 0.95) | 329 |   0.6 ( 1.14) | 329 |  -0.6 ( 1.23) | -0.57 (-0.69,-0.46) |
| Full participation | 119 |   1.1 ( 0.98) | 119 |   0.4 ( 1.09) | 119 |  -0.7 ( 1.24) | -0.79 (-0.99,-0.60) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.22 (-0.45, 0.00) |   0.053 |
| Subpopulation: Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 451 |  1.1 ( 0.91) | 451 |  0.9 ( 1.05) | 451 |  -0.2 ( 1.23) | -0.20 (-0.29,-0.11) |
| Full participation | 122 | 1.1 ( 0.93) | 122 | 0.7 ( 0.96) | 122 | -0.4 ( 1.16) | -0.41 (-0.59,-0.24) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.21 (-0.41,-0.01) |  0.038 |
| Subpopulation: Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 440 |  1.2 ( 0.87) | 440 |  0.9 ( 1.09) | 440 |  -0.3 ( 1.20) | -0.25 (-0.35,-0.15) |
| Full participation | 119 |  1.1 ( 0.92) | 119 |  0.7 ( 1.22) | 119 |  -0.4 ( 1.36) | -0.48 (-0.68,-0.28) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.23 (-0.45,-0.01) |  0.041 |
| Subpopulation: Younger & Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 297 |   1.1 ( 0.86) | 297 |   1.1 ( 0.96) | 297 |  -0.0 ( 1.18) |  0.00 (-0.10, 0.11) |
| Full participation | 72 |   1.1 ( 0.82) | 72 |   0.9 ( 0.94) | 72 |  -0.2 ( 1.09) | -0.25 (-0.46,-0.03) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.25 (-0.49,-0.01) |   0.043 |
| Subpopulation: Younger & Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 265 |   1.2 ( 0.84) | 265 |   1.2 ( 0.98) | 265 | -0.1 ( 1.13) | -0.05 (-0.16, 0.07) |
| Full participation | 50 | 1.1 ( 0.93) | 50 |   1.3 ( 1.03) | 50 |   0.2 ( 1.33) | 0.08 (-0.19, 0.35) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation |  0.12 (-0.17, 0.41) |   0.421 |
| Subpopulation: Older & Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 154 |   1.2 ( 1.01) | 154 |   0.6 ( 1.14) | 154 | -0.6 ( 1.22) | -0.59 (-0.75,-0.42) |
| Full participation | 50 |   1.1 ( 1.07) | 50 |   0.5 ( 0.95) | 50 | -0.6 ( 1.25) | -0.67 (-0.96,-0.38) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.08 (-0.42, 0.26) |   0.636 |
| Subpopulation: Older & Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 175 |   1.1 ( 0.91) | 175 |   0.6 ( 1.15) | 175 | -0.6 ( 1.24) | -0.56 (-0.72,-0.40) |
| Full participation | 69 |   1.1 ( 0.91) | 69 |   0.3 ( 1.17) | 69 |  -0.8 ( 1.23) | -0.88 (-1.14,-0.62) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | -0.32 (-0.62,-0.01) |   0.042 |
| aBased on an ANCOVA model after adjusting baseline DBP SDS and observation time.ANCOVA = Analysis of Covariance, CI = Confidence Interval, LS = Least Squares, SD = Standard Deviation |

Table S4. *ANCOVA of change in post-exercise HR (KPRT) from baseline to follow-up in subgroups by age and sex*

|  |
| --- |
| Subpopulation: Younger |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 344 | 119.1 (12.91) | 344 | 119.0 (16.20) | 344 |  -0.1 (15.62) | -0.47 (-2.01, 1.06) |
| Full participation | 77 | 122.5 (14.05) | 77 | 121.5 (14.70) | 77 |  -1.0 (17.05) |  0.81 (-2.48, 4.10) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation |  1.28 (-2.36, 4.92) |  0.490 |
| Subpopulation: Older |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 192 | 126.2 (16.82) | 192 | 120.1 (21.01) | 192 |  -6.2 (24.08) | -5.61 (-8.65,-2.57) |
| Full participation | 77 | 124.7 (24.97) | 77 | 120.9 (22.39) | 77 |  -3.8 (34.43) | -5.19 (-10.01,-0.37) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation |  0.42 (-5.28, 6.12) |  0.885 |
| Subpopulation: Female |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 260 | 122.8 (16.15) | 260 | 122.4 (17.82) | 260 |  -0.4 (18.75) | -1.30 (-3.37, 0.76) |
| Full participation | 74 | 128.9 (14.93) | 74 | 124.9 (17.75) | 74 | -4.0 (21.96) | -0.92 (-4.83, 2.99) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation | 0.38 (-4.06, 4.82) | 867 |
| Subpopulation: Male |
|  | Baseline | Follow-up | Change from baseline |
| Group | N | Mean (SD) | N | Mean (SD) | N | Mean (SD) | LS Mean (95% CI)a |
| No participation | 276 | 120.5 (13.38) | 276 | 116.6 (17.85) | 276 |  -4.0 (19.67) | -3.59 (-5.75,-1.44) |
| Full participation | 80 | 118.8 (23.17) | 80 | 117.8 (19.35) | 80 |  -1.0 (31.21) | -2.24 (-6.29, 1.80) |
| Comparison | Difference in LS Mean (95% CI)a | p-value |
| Full participation - No participation |  1.35 (-3.25, 5.95) |  0.565 |
| aBased on an ANCOVA model after adjusting baseline KPRT and observation time.ANCOVA = Analysis of Covariance, CI = Confidence Interval, LS = Least Squares, SD = Standard Deviation |