**Online Supplement 1: Multilevel linear regression model with Tissue Saturation Index as dependent variable, Model 2**

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| --- | --- | --- | --- | --- |
| **TSI** | **Coefficient (95% CI)** | **SE** | **z** | **p** |
| **Model 2:** | | | | |
| Depression A | -0.21 (-0.91 – 0.48) | 0.35 | -0.60 | 0.549 |
| Time: B  - 30 seconds  - 60 seconds  - 90 seconds | -0.35 (-0.41 - -0.30)  -0.54 (-0.60 - -0.48)  -0.54 (-0.60 - -0.48) | 0.03  0.03  0.03 | -11.94  -18.21  -18.18 | <0.001  <0.001  <0.001 |
| Depression # Time  - 30 seconds  - 60 seconds  - 90 seconds | -0.21 (-0.42 - -0.01)  -0.46 (-0.66 - -0.25)  -0.39 (-0.60 - -0.19) | 0.11  0.11  0.11 | -2.01  -4.33  -3.75 | 0.044  <0.001  <0.001 |
| Female Sex | -0.03 (-0.57 – 0.52) | 0.28 | -0.10 | 0.918 |
| Age: C  - 65 – 74 years  - ≥ 75 years | -0.14 (-0.56 – 0.27)  -0.43 (-1.05 – 0.19) | 0.21  0.32 | -0.67  -1.35 | 0.504  0.176 |
| Height (cm) | 0.02 (-0.01 – 0.05) | 0.02 | 1.21 | 0.185 |
| Weight (kg) | 0.02 (0.00 – 0.03) | 0.01 | 2.53 | 0.011 |
| Chronic Disease Number: D  - 1  -2  -3 | -0.26 (0.66 – 0.15)  -0.65 (-1.51 – 0.22)  -2.18 (-5.25 – 0.90) | 0.21  0.44  1.57 | -1.24  -1.46  -1.38 | 0.217  0.145  0.166 |
| Cognitive Imp. E | 0.69 (-0.95 – 2.33) | 0.84 | 0.83 | 0.409 |
| Cardiac Disease F | -0.73 (-1.49 - -0.03) | 0.39 | -1.87 | 0.061 |
| Stroke G | 1.68 (-1.39 – 4.75) | 1.57 | 1.07 | 0.285 |
| Antidepressant H | -0.30 (-1.08 – 0.47) | 0.40 | -0.76 | 0.445 |
| Antihypertensive I | -0.29 (-0.71 – 0.12) | 0.21 | -1.39 | 0.166 |
| **Random-effects Parameters:** | | | | |
|  | Estimate (95% CI) | SE | | |
| Variance of Constant | 21.6 (20.4 – 22.8) | 0.61 | | |
| Variance of Residual | 1.04 (1.00 – 1.07) | 0.02 | | |

*Notes: N = 2,616. Results from multilevel modelling with TSI as the dependent variable. Abbreviations: TSI = tissue saturation index measured by near-infrared spectroscopy; CI = confidence interval; SE = standard error; Cognitive Imp. = cognitive impairment.*

*A Depression defined as 8-item Centre for Epidemiological Studies Depression Scale ≥ 9; B Reference value for Time is baseline, i.e. an average of the readings between 30-60 seconds prior to standing; C reference value for age is 50-64 years; D Defined as number of self-reported chronic illnesses from the following list: lung disease, liver disease, chronic kidney disease, arthritis, cancer and diabetes mellitus. Reference value =0 chronic diseases; E Cognitive impairment defined as Mini Mental State Examination Score ≤ 24; F Cardiac Disease defined as self-report of angina, heart attack or heart failure; G Stroke defined as self-report of prior stroke; H Antidepressant denotes prescribed antidepressant treatment (Anatomical therapeutic classification codes N06AB, N06AX16, N06AX21, N06AX11, N06AX22, N06AX12); I Antihypertensive denotes prescribed Antihypertensive medication (Anatomical therapeutic classification codes C02, C03, C07, C08 and C09).*