Additional File 4: Scoring Algorithms for SF-HDQ Domains
(Total = Raw Domain Sum Score)

Physical Domain (10 items)

$$\text{Scaled Score} = 51.21609 + 13.93883\,(\,\text{-}3.674347 + 0.435572 \times Total + \text{-}0.018692 \times Total^2 + 0.000314 \times Total^3)$$

Cognitive Domain (3 items)

$$\text{Scaled Score} = 48.34017 + 9.369442\,(\,\text{-}5.159343 + 1.283297 \times Total + \text{-}0.112806 \times Total^2 + 0.006665 \times Total^3)$$

Mental-Emotional Domain (5 items)

$$\text{Scaled Score} = 52.04952 + 13.33447\,(\,\text{-}3.903382 + 0.803233 \times Total + \text{-}0.059565 \times Total^2 + 0.001908 \times Total^3)$$

Uncertainty Domain (5 items)

$$\text{Scaled Score} = 49.72724 + 14.0912\,(\,\text{-}3.528956 + 0.723459 \times Total + \text{-}0.055904 \times Total^2 + 0.001874 \times Total^3)$$

Day-to-Day Activities Domain (5 items)

$$\text{Scaled Score} = 44.84344 + 11.43029\,(\,\text{-}3.92321 + 0.803392 \times Total + \text{-}0.068271 \times Total^2 + 0.002499 \times Total^3)$$

Social Domain (7 items)

$$\text{Scaled Score} = 47.1352 + 14.26797\,(\,\text{-}3.303567 + 0.627115 \times Total + \text{-}0.046006 \times Total^2 + 0.001335 \times Total^3)$$