**Table 1.** Clinical subscales and symptoms and behavioural tendencies associated with each scale (adapted from van den Broek, Monaci & Smith, 2012). Each subscale comprises 10 items, yielding 40 items for each Total Clinical scale. Each Validity scale comprises 12 unique, non-overlapping items yielding a total of 36 items. The Consistency (Con) scale comprises 9 item-pairs.

Emotional Subscales

1. Anger Irritability, frustration, verbal & physical aggression, impatience
2. Anxiety Anxiety, feelings of worry, low self-confidence, fearfulness
3. Depression Low mood, tearfulness, loss of enthusiasm, anhedonia
4. Stress Inability to relax, feeling overwhelmed, racing thoughts

Total Clinical Emotional Scale

Cognitive Subscales

1. Memory Everyday forgetfulness, prospective lapses, poor retrograde recall
2. Concentration Distractibility, difficulty maintaining attention, focusing, multitasking
3. Language & Communication Word finding, garrulousness, tangentially, difficulty with understanding
4. Executive carelessness and disorganisation, impulsiveness, inappropriate responses

Total Clinical Cognitive Scale

Physical Subscales

1. Pain Pain impeding life, use of analgesia, perceived pain -related restrictions
2. Neurological Motor restrictions, diminished sensation, dizziness, visual problems
3. Somatic Sensitivity to illness, use of specialists, gastrointestinal, bowel complaints
4. Disability & Restrictions Reliance on carers, need for aids, self-care and mobility restrictions

Total Clinical Physical Scale

Validity Scales

1. Response Consistency (Con)
2. Validity Emotional Scale (vEmot)
3. Validity Cognitive Scale (vCog)
4. Validity Physical Scale (vPhys)

|  |
| --- |
| **Table 2.** Summary statistics for community participants on the PPQ Clinical scales (*n* = 404) |
| Clinical Domain | Subscale (0-20) | Mean (*SD*) | Range | *α* (95% CI) |
|  |  |  |  |  |
| Cognitive | Language & Communication | 3.49 (2.96) | 0-15 | 0.76 (0.73,0.79) |
|  | Memory | 3.82 (3.24) | 0-17 | 0.81 (0.78,0.83) |
|  | Concentration  | 3.85 (3.44) | 0-15 | 0.83 (0.80,0.85) |
|  | Executive  | 3.58 (3.08) | 0-15 | 0.77 (0.74,0.81) |
| Emotion | Anger | 4.41 (3.40) | 0-16 | 0.81 (0.78,0.84) |
|  | Anxiety | 3.23 (2.99) | 0-15 | 0.79 (0.75,0.82) |
|  | Depression | 2.74 (3.00) | 0-19 | 0.82 (0.80,0.85) |
|  | Stress | 3.96 (3.18) | 0-15 | 0.79 (0.76,0.82) |
| Physical | Pain  | 2.84 (2.82) | 0-17 | 0.77 (0.74,0.80) |
|  | Neurological | 1.68 (2.05) | 0-11 | 0.67 (0.62,0.71) |
|  | Disability & Restrictions | 1.34 (2.00) | 0-13 | 0.71 (0.67,0.75) |
|  | Somatic | 2.14 (2.37) | 0-15 | 0.72 (0.68,0.76) |
| Clinical Scale Totals (0-80) |
|  |  |  |  |  |  |
| Cognitive |  | 14.75 (11.32) | 0-55 | 0.93 (0.92,0.94) |
| Emotional |  | 14.34 (10.79) | 0-49 | 0.93 (0.92,0.94) |
| Physical |  | 8.00 (8.01) | 0-56 | 0.91 (0.89,0.92) |
| Validity Scale Totals (0-24) |
|  |  |  |  |  |  |
| Cognitive |  | 1.25 (2.16) | 0-14 | 0.76 (0.73,0.80) |
| Emotional |  | 1.40 (2.08) | 0-14 | 0.71 (0.66,0.75) |
| Physical |  | 1.08 (1.89) | 0-11 | 0.74 (0.71,0.78) |
| In the few cases (< 1%) where a participant failed to respond to one item on a subscale, the total subscale score was calculated by imputing the mean item score for the missing item; *α* = Cronbach’s alphas; CI = confidence intervals (calculated using Feldt’s (1965) formula). |

|  |
| --- |
| **Table 3.** Cumulative percentage of community participants scoring at or below selected raw score cut-offs on the Validity scales of the PPQ (*n* = 404) |
| Validity Scale Totals | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cognitive (0-24) | 56.2 | 74.3 | 82.2 | 86.6 | 91.6 | 94.3 | 96.3 | 98.8 | 99.3 | 99.5 | 100 |
| Emotional (0-24) | 50.5 | 66.8 | 79.5 | 87.6 | 91.1 | 93.8 | 96.0 | 98.8 | 99.5 | 99.8 | 100 |
| Physical (0-24) | 56.9 | 77.7 | 85.9 | 90.1 | 92.6 | 95.3 | 96.8 | 98.8 | 99.5 | 100 |  |
|  |

|  |
| --- |
| **Table 4.** Final multiple linear regression models for the Clinical scale totals (*n* = 403) |
| Clinical Scale Totals (√) | B | SE B | *t* | *β* | *R²* | MSE |
|  |  |  |  |  |  |  |  |
| Cognitive |
| (constant) |  2.638 |  0.186 | 14.197\*\*\* |  |  |  |
| Age |  -0.026 |  0.006 |  -4.703\*\*\* | -0.237 |  |  |
| Age² |  0.002 | <0.001 |  4.521\*\*\* |  0.226 |  |  |
| Gender |  0.453 |  0.149 |  3.048\*\* |  0.145 |  |  |
| Education - Low |  1.010 |  0.306 |  3.299\*\* |  0.172 |  |  |
| Education - High |  0.315 |  0.167 |  1.888 |  0.098 | 0.096 | 2.219 |
| Emotional |
| (constant) |  2.704 |  0.185 | 14.640\*\*\* |  |  |  |
| Age | -0.018 |  0.005 | -3.290\*\* | -0.168 |  |  |
| Age² |  0.002 | <0.001 |  4.074\*\*\* |  0.206 |  |  |
| Gender |  0.370 |  0.148 |  2.501\*\* |  0.121 |  |  |
| Education - Low |  1.035 |  0.304 |  3.400\*\*\* |  0.180 |  |  |
| Education - High |  0.265 |  0.166 |  1.599 |  0.084 | 0.070 | 2.193 |
| Physical |
| (constant) |  1.809 |  0.151 |  11.948\*\*\* |  |  |  |
| Age |  0.002 |  0.005 |  0.394 |  0.020 |  |  |
| Age² |  0.002 | <0.001 |  4.465\*\*\* |  0.222 |  |  |
| Education - Low |  1.346 |  0.277 |  4.860\*\*\* |  0.252 |  |  |
| Education - High |  0.330 |  0.151 |  2.181\* |  0.113 | 0.101 | 1.820 |
| Data regarding education was missing for one female participant; hence the model includes 403 participants only; Coding of the predictors: age = calendar age – 40.72; age² = (calendar age – 40.72)²; gender: female = 1, male = 0; Education: Education-Low = 1; average or high education = 0; Education-High: high education = 1; average or low education = 0. SE = standard error; *β* = standardised beta; *R²* = Adjusted *R²*; MSE = mean squared error (residual).\**p* < .05; \*\**p* < .01; \*\*\**p* < .001 |

|  |
| --- |
| **Table 5.** Final multiple logistic regression models for the Validity scale cut-off score ≥ 5 (*n* = 403) |
| Validity Scale Total ≥ 5 | B | SE B | Wald *χ2* | OR (95% CI) | *R²* |
|  |  |  |  |  |  |  |
| Cognitive |
| (constant) |  -3.160 |  0.463 |  46.621\*\*\* |  |  |
| Age |  -0.011 |  0.013 |  0.739 |  0.989 (0.964,1.014) |  |
| Age² |  0.002 |  0.001  |  7.494\*\* |  1.002 (1.001,1.004) |  |
| Education - Low |  1.669 |  0.565 |  8.735\*\* |  5.307 (1.754,16.050) |  |
| Education - High |  -0.117 |  0.439 |  0.070 |  0.791 (0.376,2.105) | 0.114 |
| Emotional |
| (constant) |  -3.385 |  0.490 |  47.679\*\*\* |  |  |
| Age | -0.019 |  0.012 |  2.423 | 0.981 (0.957,1.005) |  |
| Age² |  0.002 |  0.001 |  6.889\*\* |  1.002 (1.001,1.004) |  |
| Education - Low |  1.481 |  0.630 |  5.526\* |  4.399 (1.279,15.130) |  |
| Education - High |  0.534 |  0.446 |  1.435 |  1.706 (0.712,4.086) | 0.063 |
| Physical |
| (constant) |  -4.094 |  0.713 |  32.978\*\*\* |  |  |
| Education - Low |  3.038 |  0.823 |  13.639\*\*\* |  20.870 (4.161,104.661) |  |
| Education - High |  1.652 |  0.750 |  4.850\* |  5.217 (1.199,22.696) | 0.108 |
| Data regarding education was missing for one female participant; hence the model includes 403 participants only; Coding of the predictors: age = calendar age – 40.72; age² = (calendar age – 40.72)²; Education: Education-Low = 1; average or high education = 0; Education-High: high education = 1; average or low education = 0. SE = standard error; OR = odd ratios, CI = confidence intervals; *R²* = Nagelkerke R².\**p* < .05, \*\**p* < .01, \*\*\**p* < .001. |

|  |
| --- |
| **Table 6.** Summary statistics for ABI participants on the PPQ Clinical and Validity scales (*n* = 59) |
| Clinical Domain | Subscale (0-20) | Raw Score Mean (*SD*) | Range | *α* (95% CI) | *T* score Mean (*SD*) |
|  |  |  |  |  |  |
| Cognitive | Language & Communication | 6.34 (3.80) | 0-16 | 0.75 (0.65,0.84) |  |
|  | Memory | 7.56 (4.79) | 1-19 | 0.86 (0.80,0.91) |  |
|  | Concentration  | 7.66 (4.70) | 0-18 | 0.88 (0.82,0.92) |  |
|  | Executive  | 6.02 (4.26) | 0-18 | 0.83 (0.75,0.89) |  |
| Emotion | Anger | 5.31 (4.65) | 0-17 | 0.88 (0.83,0.92) |  |
|  | Anxiety | 4.86 (3.92) | 0-16 | 0.82 (0.75,0.88) |  |
|  | Depression | 5.73 (4.25) | 0-18 | 0.83 (0.75,0.89) |  |
|  | Stress | 5.27 (4.32) | 0-18 | 0.86 (0.80,0.91) |  |
| Physical | Pain  | 5.17 (4.01) | 0-18 | 0.82 (0.74,0.88) |  |
|  | Neurological | 5.49 (2.89) | 1-14 | 0.53 (0.32,0.69) |  |
|  | Disability & Restrictions | 6.10 (4.08) | 0-17 | 0.75 (0.64,0.83) |  |
|  | Somatic | 4.05 (3.19) | 0-15 | 0.72 (0.60,0.81) |  |
| Scale Totals (0-80) |
|  |  |  |  |  |  |  |
| Cognitive |  | 27.58 (15.22) | 4-68 | 0.94 (0.92,0.96) | 61.43 (10.60) |
| Emotional |  | 21.17 (15.68) | 0-64 | 0.95 (0.94,0.97) | 56.39 (12.37) |
| Physical |  | 20.81 (11.61) | 1-60 | 0.89 (0.85,0.93) | 64.31 (11.59) |
| Validity Scale Totals (0-24) |
|  |  |  |  |  |  |
| Cognitive |  | 2.69 (3.05) | 0-19 | 0.76 (0.66,0.84) |
| Emotional |  | 2.34 (3.45) | 0-21 | 0.82 (0.74,0.88) |
| Physical |  | 2.02 (3.08) | 0-20 | 0.79 (0.70,0.86) |
|  In the few cases (< 1%) where a participant failed to respond to one item on a subscale, the total subscale score was calculated by imputing the mean item score for the missing item; *α* = Cronbach’s alphas; CI = confidence interval (calculated using Feldt’s (1965) formula); Cronbach’s alphas were calculated using data from participants who provided responses to all items on the relevant subscale. |

|  |
| --- |
| **Table 7.** Cumulative percentage of ABI participants scoring at or below selected raw score cut-offs on the Validity scales of the PPQ (*n* = 59) |
| Validity Scale Totals | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cognitive (0-24) | 22.0 | 39.0 | 54.2 | 71.2 | 86.4 | 91.5 | 94.9 | 94.9 | 98.3 | 98.3 | 98.3 |
| Emotional (0-24) | 42.4 | 55.9 | 66.1 | 72.9 | 79.7 | 81.4 | 93.2 | 98.3 | 98.3 | 98.3 | 98.3 |
| Physical (0-24) | 37.3 | 54.2 | 72.9 | 83.1 | 88.1 | 89.8 | 96.6 | 98.3 | 98.3 | 98.3 | 98.3 |