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Table 1: MPAI-4 Items by subscales				
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TEST MATERIALS AND USE

Test Materials

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User Qualifications

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Basic Guidelines For Rating Children And Adolescents Using MPAI-P

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Modifications:

Modifications for age range

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MPAI-P	Adaptations for Scoring for Children and Adolescents
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GUIDELINES AND EXAMPLES FOR RATING ITEMS OF THE MPAI-4 AND MPAI-P

1. Mobility: Problems walking or moving about including balance problems. &S . 8% &89\$ # &?\$"*% &P 89 . & ?8==8+C*98\$% &#: K84 I &: 4\$%\$*=&=7: # &6*"+\$\&9:\&6*"+\$, &\$89.\$7\&; D&P"*G84 I &P 89 . : C9&"%%8%9"4+\$, &P 89 . &"%%8%9"4+\$, &: 7& #: K84 I &"; : C9&P 89 . &"%%8%98K\$\&?\$K8+\$%\&84+*C?84 I &"&P . \$\$*+. "87(&1"*"4+\$\&67:; *\$ #% \&"7\$\&84+*C?\$?\&84\&9 . 8% &

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2. Use of Hands: Impaired strength or coordination in one or both hands.

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3. Vision: & Problems seeing; double vision; visual field deficits; other eye, brain, or nerve injuries that interfere with seeing. & X8%C" *& 28%9C7; "4+\$%&P.8+.&"7\$&?C\$&9: & 6\$7+\$69C" *& 28%: 7?\$7%&7"9.\$7&9."4&8#6"87#\$49&:=&9.\$&678#"7D&K8%C" *& D%9\$#&%.:C*?&;\$&7"9\$?&C4?\$7&89\$#&^M&[K8%C:%6"98" *&";8*898\$%\\&&':7&\$Y"#6*\$,&K8%C" *& 4\$I*\$+9&%.:C*?&;\$&7"9\$?&C4?\$7&89\$#&^M,&&=&9.\$7\$&8%&4:&=8\$*?&+C9&:7&6\$786.\$7" *& K8%C" *& ?8%9C7;"4+\$(&

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5. Dizziness: ld

 $\textbf{6.} \quad \textbf{Motor speech:} \\ \& \textbf{Abnormal clearness (articulation, phonati}$

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7A. Verbal Communication: Problems expressing thoughts through language or understanding such expressions from others.

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8. Attention/Concentration: & Problems ignoring distractions; difficulty shifting attention from one thing to another; difficulty sustaining attention. & # \$ # : 7D&* 6%\$%&"7\$&7\$6:79\$?&9. "9&"7\$&?C\$&678 # "78*D&9: & "9\$\$498: 4"*&?\$=8+89%, & +: ?\$&9. \$&"667:678"9\$&*\$K\$*&:=&"99\$498: 4"*&# 6"87 # \$49&"4?&+:?\$&>9\$ # &Q&[) \$ # : 7D\& "%&h^(i & R & 89. : C%4\$C7:6%D+.: # \$978+&9\$%984I, &89&8%&?8==8+C*9&9: & ?8%984IC8%. & ; \$9P\$\$4& # \$ # : 7D&*"6%\$%&9. "9&"7\$&?C\$&9: & "9\$\$498:4&"%&:66: %\$?&9: & "8078+&9\$%984I, &89&8%&?8=8+C*9&9: & ?8%984IC8%. & ; \$9P\$\$4& # \$ # : 7D&**"6%\$%&9. "9&"7\$&?C\$&9: & "99\$498:4&"%&:66: %\$?&9: & "8078+&9\$%984I, & * # : 7D&****7\$, \$7(& J & 4\$&%8I4&9. "9&"99\$498:4&8%&

9. Memory: Problems learning and recalling new information \boldsymbol{k}

10. Fund of information: Problems remembering information learned in school or on the job or general knowledge about the world; difficulty remembering information about self and family from months to years ago.

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11. Novel problem-solving: & Problems generating solutions or picking the best solution to new problems. H: K\$*&67:; *\$ # 2%: *K84 I&84&9.8%&+: 49\$Y9&7\$=\$7%&678 # "78*D&9: &+: 4+\$69C"*&67:; *\$ # %&7"9.\$7&9."4&849\$76\$7%: 4"*&67:; *\$ # %(&) # 6"87 # \$49&84&+: 4+\$69C"*&67:; *\$ # 2%: *K84 I&"4?&7\$"%: 484 I& # "D&849\$7=\$7\$&P89.& %: *K84 I&849\$76\$7%: 4"*&: 7&: 9.\$7&*8=\$&67:; *\$ # %(&& < : P\$K\$7,&\$ # : 98: 4"*&8%%C\$%& # "D&"*%: &849\$7=\$7\$&P89.& 67:; *\$ # 2%: *K84 I&84&7\$*"98: 4%. 86%&"4?&7\$"*&*8=\$&869C"98: 4%(&& ': 7&84%9"4+\$,&6\$:6*\$&P89.&C48 # 6"87\$?&: 7&8\$K\$4&\$%C6\$78: 7&7\$"%: 484 I&"; 8*89D&# "D&\$Y\$7+8%\$&6: 7&ZC?I # \$49&; \$+"C%\$&9.\$D&"7\$&"4I7D&"9&%: # \$:4\$&: 7&8\$*C\$%\$&1, \$*C\$%%: # \$9.\$4I(&&S:&9.\$&\$Y9\$\$49&6: %%8; *\$,&9.\$&8&89\$\$ # &7"9\$%&: 4*D&9.\$&9.\$&4G84 I&"4?&+: 4+\$69C"*&7\$"%: 484 I& 6"79&:=&67:; *\$ # 2%: *K84 I&&B #:98: 4"*&"4?&; \$."K8: 7"*&="+9:7%&%.: C*?&; \$&7"9\$?&C4?\$7&"667:678"9\$& %C; %\$eC\$49&89\$\$ # %(&&O*%:&84+*C?\$?&84&9.8%&+"9\$I:7D&8&9.\$&"; 8*89D&9:&+: 4+\$69C"**D&:7I"48F\$&84=:7#"98:4&"4?&"+98K898\$%,&9:&6*"4,&"4?&9:&\$?\$K\$*:6&"4?&#"849"84&"&%D%9\$#"98+&6\$7%:4"*&%+.\$?C*\$(&

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12. &Visuospatial abilities:&

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13. Anxiety: MTense, nervous, fearful, phobic, symptoms of posttraumatic stress disorder such as nightmares, flashbacks of stressful events.

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14. Depression: MSad, blue, hopeless, poor appetite, poor sleep, worry, self-criticism.

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- **17. Fatigue: Feeling tired, low in energy; fatigability, that is, feeling low in mental or physical energy after a relatively low level of mental or physical activity.** \(\lambda\) "98IC\$\(\lambda\) "D\(\lambda\);\$\(\lambda\)"\(\lambda\) = \(\lambda\) \$\(\lambda\) \(\lambda\) \(\l
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20. Impaired self-awareness: MLack of recognition of personal limitations and disabilities and how

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21. Family/significant relationships: &Interactions with close others. & / \$%+78; \$&%97\$\% P89. 84&9. \$&="#8*D& :749.: \%\$\&+*: \%\$\\949: \&9.\$\&6\$7\%: 4\&P 89. \&; 7''84\&84ZC7D(\&\h'' #8\D\=C4+98: 484 Ip\&#\$''4\&\+: 6\$7''984 I\&9: \& "++: #6*8%.&9"%G%&9."9&4\$\$?&9:&:\$&?:4\$&9:&G\$\$6&9.\$&.:C%\$.:*?&7C4484I&"%&P\$**&"%&67:K8?84I&#C9C"*& %C66:79(&kh'"#8*Di&7\$=\$7%&9:&+*:%\$&:9.\$7%&*8K84I&9:I\$9.\$7&:7&84&+*:%\$&67:Y8#89D&"4?&#"D&7\$67\$%\$49& \$89.\$7&97"?898:4"*&:7&4:4297"?898:4"*&p="#8*8\$%(i& Nå "4?&"?:*\$%+\$49%&?\$"*&P89.&8%%C\$%&7\$*"984I&9:&?\$6\$4?\$4+\$T84?\$6\$4?\$4+\$&:7&="#8*D&#\$#;\$7%& \$Y6\$78\$4+\$&*8=\$&%97\$%%: 7%&: C9%8?\$&:=&9.\$&="#8*D(&&O9&9.8%&*\$K\$*.&%97\$%%&P89.84&9.\$&="#8*D&8%&P\$**& P89.84&9.\$&="#8*Do%&";8*89D&9:&+:6\$(& ^{ O9&9.8%&*\$K\$*.&%97\$%%&8\&%8I48=8+"49&\$4:CI.&9:&+."**\$4I\$&9.\$&":8*89D&:=&#\$#:\$7%&:=&9.\$&="#8*D&9:& +:6\$&;C9&?:\$%&4:9&7\$%C*9&\$&4&%C%9"\$4\$?&?\$%97\$%%&"4?&?:\$%&4:9&8148=8+"49*D&?8%7C69&9.\$&="#8*D& 7: C984\$&: 7&#"849\$4"4+\$&:=&9.\$&.:C%\$.:*?(& å ' "#8*D&=C4+98:484 I &8%&?8%7C69\$?&84&%: #\$&; C9&4:9&9.\$&# "Z:789D&c:=&9.\$&98 #\$(&&O7IC#\$49%&:7& Μå 8%: *"984I&: 4\$%\$*=&#"D&; \$&#: 7\$&=7\$eC\$49&=: 7&="#8*D&#\$#; \$7%(&&) \$"*%&"4?&7: C984\$&.: C%\$.: *?& +.:7\$%&"7\$&4:9&+:#6*\$9\$?&+:4%8%9\$49*D,&6:9\$498"**D&*\$"?84I&9:&"??898:4"*&%97\$%%&"4?&?8%97\$%%(&& < : P\$K\$7,&="#8*D&#\$#;\$7%&=\$\$*&9."9&9.\$&%89C"98:4&+"4&8#67:K\$&"4?&"7\$&%98**&";*\$&9:&;\$& %C66:798K\$&:=&\$"+.&:9.\$7(&&'"#8*D&+:C4%\$*84I&8%&"4&:698:4&;C%4:9&+*\$"7*D&7\$eC87\$?(& å Oå '"#8*D&7:C984\$,&.:C%\$.:*?&=C4+98:484I,&"4?&#C9C"*&%C66:79&P89.84&9.\$&="#8*D&"7\$& C4%"98%="+9:7D&9:&="#8*D&#\$#;\$7%&#C+.&:=&9.\$&98#\$(&&O7IC#\$49%&"4?&8%:*"98:4&:++C7& =7\$eC\$49*D(&k3:.\$%8:4&P89.84&9.\$&="#8*D&8%&*"7I\$*D&":%\$49,&:7&6"9.:*:I8+"*&9:&9.\$&6:849&:=& \$4#\$%.#\$49&[8(\$(.&84"667:678"9\$.&C4+:4%97C+98K\$.&:7&6:9\$498"**D&?\$%97C+98K\$&:K\$7&84K:*K\$#\$49& 84&\$"+.&:9.\$7%o&"="87%\(&&'"#8*D&9.\$7"6D&8%&C%C"**D&7\$+:##\$4?\$?(& å] & O9&9.8%&*\$K\$*,&9.\$&="#8*D&8%&+."7"+9\$78F\$?&;D&"4&"*#:%9&+:#6*\$9\$&*"+G&:=&+:.\$%8:4&:7&:;K8:C%*D&

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- 25. Self-care: Eating, dressing, bathing, hygiene.&&S . 8%&89\$ # &+: 4%8?\$7%&9 . \$&" #: C49&:=&84?\$6\$4?\$4+\$& P89 . &P . 8+ . &; "%8+&%\$*=2+"7\$&"+98K898\$%&"7\$&6\$7=:7 #\$?&84+*C?84I&\$"984I,&; "9 . 84I,&?7\$%%84I,&"4?&:9 . \$7& "%6\$+9%&:=&6\$7%:4"*&.DI8\$4\$\$(&&>4&"**&7"984I%,&6\$7=:7 # "4+\$&#C%9&; \$&"++\$69"; *\$&84&9\$7 #%&:=&%:+8\$9"*& %9"4?"7?%(&&':7&84%)"4+\$,&6\$:6*\$&;\$84I&7"9\$?&#"D&7:C984\$*D&?7\$%%&"4?&I7::#&9 . \$#%\$*K\$%&P89 . &4:& "%%8%9"4+\$&=7:#&"4:9 . \$7&6\$7%:4(&&<:P\$K\$7,&8=&9 . \$87&"66\$"7"4+\$&8%&?8% . \$K\$*\$?&"4?&9 . \$87&I7::#84I&8%&84+:#6*\$9\$,&9 . \$4&9 . \$D&P:C*?&4:9&;\$&7"9\$?&"%&NNi(&&>4&%C+.&+"%\$%,&9 . \$D&% . C*?&;\$&7"9\$?&"++:7?84I&9:&9 . \$&"#:C49&:=&"%%8%9"4+\$&9 . \$D&P:C*?&7\$eC87\$&84&:7?\$7&=:7&9 . \$87&6\$7=:7#"4+\$&9:&;\$&"++\$69";*\$(&&':7&+.&8*?7\$4&"4?&"2:*\$%+\$49%,&9 . \$&"#:C49&:=&"%%8%9"4+\$&"4?&67:#6984I&7\$eC87\$?&8%&+:#6"7\$?&9:&9 . \$&4:7#&=:7&9 . \$&\$&\$&:=&%8#8*"7&"I\$%(&
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26. Residence: Responsibilities of independent living and homemaking (such as, meal preparation, home repairs and maintenance, medication management, and personal health maintenance beyond basic hygiene (see #25) but not including managing money (see #29).&\$\(\). \$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\) \\$\(\). \$\(\). \$\(\) \\$\(\). \$\(\

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27. Transportation: Independence in moving oneself outside of the home in the community. In rating this item, consider ability to perform these activities without assistance as well as environmental limitations. ':7&84%9"4+\$,&%:#\$&6\$:6*\$&#"D&;\$&";*\$&9:&C%\$&6C;*8+&97"4%6:79"98:4&842\$6\$42\$49*D&;C%6C;*8+&97"4%6:79"98:4&8%&4:9&"K"8*";*\$&;\$+"C%\$&9.\$D&

28A. Paid employment. & Work for pay. & 0**&:9.\$7&+"9\$I:78\$%&:=&67:?C+98K\$&"+98K89D&"7\$&7"9\$?&C4?\$7&MQ1& 6\$7%: 4&%.: C*?&; \$&7"9\$?&=: 7&9.\$&%: +8"*&7: *\$&9."9&"66\$"7%&678#"7D&"%&84?8+"9\$?&; D&9.\$&7\$*"98K\$&"#: C49&:=& 98#\$&?\$K:9\$?&9:&9.\$&7:*\$&"4?&9.\$&K"*C\$&9.\$&6\$7%:4&"99"+.\$%&9:&89(&&':7&9.8%&7\$"%:4.&"*#:%9&"**&+.8*?7\$4& "4?&\$"7*D&"?:*\$%+\$49%&P8**&;\$&7"9\$?&C4?\$7&MQ1&=:7&9.\$87&6"798+86"98:4&84&%+.::*&"+98K898\$%&\$K\$4&8=&9.\$D& "7\$&P:7G84I&6"79298#\$&=:7&6"D(&&O4:9.\$7&\$Y"#6*\$&8%&67:K8?\$?&;D&"&P:7G84I&#:9.\$7&P.:&P:7G%&=C**& 98#\$\=:7\begin{align*} 6\D(\begin{align*} \delta \d P:7G84I&#:9.\$7&P.:&+.::%\$%k9:&P:7G&:4*D&6"79&98#\$&-:7&6"D&;\$+"C%\$&%.\$&-\$\$*%k9."9&.\$7&678#"7D&7:*\$&8%& "9&.:#\$&P:C*?&;\$&7"9\$?&"%&"&h.:#\$#"G\$7i&C4?\$7&MQ1(&&O4&:*?\$7&"?:*\$%+\$49&:7&"?C*9&%9C?\$49&P.:&8%& P:7684I&=:7&6"D&678#"78*D&9:&%C66:7%.8%&:7&.\$7&"+98K89D&"%&"&%9C?\$49&P:C*?&;\$&7"9\$?&"%&"&h%9C?\$49i& $C4?\$7\&MQ1(\&\&O\&6\$7\%:4\&P:\&\&\&\&\&\&&\&&A7\$:";\&\&\&\&\&\&&\&:7?\$7\&9:\&7\$9C74\&9:\&"\&K"*C\$?\&\%:+\&"*\&7:*\$\&P:C^*?\&;\&\&7"9\$?\&A84\&:7?\$7\&9:\&7.$: 4&9 . \$&678 # "7D&7 : *\$&9 : &P . 8+ . &9 . \$D&P8% . &9 : &7\$9C74(&&>4&: 9 . \$7&P : 7?%,&"4&C4\$ # 6* : D\$?&6\$7% : 4&P . : &8%& 97D84Id9: &=84?&"&Z:; &=:7&6"D&P:C*?&;\$&7"9\$?&C4?\$7&MQOg&9.\$&%"#\$&6\$7%:4&97D84I&9:&7\$9C74&9:&%+.::*&:7& .:#\$#"G84I&P:C*?&;\$&7"9\$?&C4?\$7&MQ1(&&BY+\$69&=:7&9.\$&%6\$+8"*&+"%\$&:=&7\$987\$#\$49&C4?\$7&"I\$&bN&[%\$\$& ;\$*: P&C4?\$7&MQ1\.&9.\$&6\$7%:4&P.:&8%&;\$841&7"9\$?&8%&9.\$&C*98#"9\$&"C9.:789D&7\$I"7?841&9.\$&678#"7D& ?\$%87\$?&%:+8"*&7:*\$(&&&

':7&;:9.&MQO&"4?&MQ1,&h%C66:79i&=:7&\$#6*:D#\$49&

- 28B. Other employment. Unpaid work, such as, formal schooling, volunteer work, homemaking, and retirement for those over age 60.&&-\$:6*\$&P.:&8?\$498=D&9.\$#%\$*K\$%&"%&h7\$987\$?i&;C9&"7\$&C4?\$7&"I\$&bN&"7\$&7"9\$?&=:7&9.\$87&678#"7D&%:+8"*&7:*\$&;\$=:7\$&h7\$987\$#\$49(i&':7&\$Y"#6*\$L&"&6\$7%:4&P89.&\$1>&."%&9.\$&=:**:P84I&+."7"+9\$78%98+%L&
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29. Managing money and finances: Shopping keeping a checkbook or other bank account,managing personal income and investments.&':7&+.8*?7\$4&"4?&"?:*\$%+\$49%,&9.8%&89\$#&9D68+"**D&

7\$=\$7%&9:&#"4" 184 1&6:+G\$9&#:4\$D&:7&"4&"**:P"4+\$(&':7&6C76:%\$%&:=&9.8%&89\$#,&h%.:66841i&7\$=\$7%&9:&9.\$&

use of money&84&"+eC87841&1::?%(&& J9.\$7&"%6\$+9%&:=&%.:66841,&8(\$(,&"+eC87841&%C==8+8\$49&1::?%&9:&

#"849"84&9.\$&::C\\$.:*?&"7\$&+:4\\$8?\$7\$?&C4?\$7&h84?\$6\$4?\$49&*8K841(i&&>4&7"9841&9.8%&89\$#&=:7&"?C*9%,&

+:4\\$8?\$7"98:4&8\&18K\$4&9:&P.\$9.\$7&9.\$&*#:C49\&:=&#:4\$D&;\$841&#"4"1\$?&8\&\#"**&:7&*"71\$(&O?C*9\&P.:&

"7\$&";*\$&9:&#"G\$&\#"**&6C7+."%\$\&P89.&7\$*"98K\$*D&\#"**&"#:C49\&:=&#:4\$D&=:7&+*:9.\$\,&17:+\$78\$\&:7&

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Pre-existing and Associated Conditions

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31. Drug Use: Use of illegal drugs or abuse of prescription drugs both before and after injury. & 0 % = :7&"*+: . : *&C%\$,&"4&8 # 6:79"49&="+9:7&84&# "G84I&9.8%7"984I&8%&9.\$&?\$I7\$\$&9:&P.8+.&??CI&C%\$&849\$7=\$7\$%&

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32. Psychotic symptoms: Hallucinations, delusions, other severe distortions of reality. & S. \$\ell ?\frac{1}{5} \\ 9: & P. 8+ . & C+ . & D # 69: # \& P\$7\$\ell 67\$\\$\$49\ell ; \$=: 7\$\ell 84ZC7D\ell "4?\ell "7\$\ell 67\$\\$\$49\ell "=9\$7\ell 84ZC7D\ell ". C*?\ell ; \$\ell 7D\ell \\ 8: \ell 8\ell ?\ell \\ 8: \ell 8\ell ?\ell \\ 8: \ell 8\ell ?\ell \\ 8: \ell 8\ell 8\

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33. Law violations: Preinjury or postinjury history of conviction for legal infractions. k

SCORING, REFERENCE DATA, $\mbox{$k$}$ AND TEST INTERPRETATION

Scoring: for adults, adolescents and children

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MPAI DEVELOPMENT AND PSYCHOMETRIC CHARACTERISTICS

Development

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National sample. 5 "%+. &"4"*D%8%&:=&9.\$&) - 0>20&; "%\$?&: 4&0Qb&+"%\$%&=7: #&"&I\$: I7"6.8+"**D&?8K\$7%\$&%"#6*\$&:=&6\$:6*\$&P89.&0 1>&7\$+\$8K84I&%\$7K8+\$%&9.7:CI.&E\$"7484I&A\$7K8+\$%&3:76:7"98:4,&5\$.";&R89.:C%R"**%,&"4?&) "D:&3*848+&+:4=87#\$?&9.\$&84

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Table 6: Ability Index: reliability and separation (Mayo sample; n =134)				
	Person Reliability	Person Separation	Item Reliability	Item Separation
Person with ABI	(Q]å	M(ON&	(dcå	a(bb&
SO	(Q]å	M(O^&	(d0å	O(bQå
Staff	(Q^&	M(Nd&	(dQå	b(cM&
3-Rater	(Qb&	M(aM&	(ddå	^M(dd&
Composite				

Table 9: Percent exact agreements and agreements within 1 point between rating groups on individual items (Mayo sample; n =134)

People with SO and Staff People with All Rater Pairs ABI and SO ABI and Staff

 $?\$\# : 4\%97"9\$?\&9 . "9\&9 . \$\& : 78I84" *\&A9" == \&) - O>\&[\chi^{\text{M}\&q\&Q}(ON,\&6\&1(N^{\text{L}'4}?\&98\#\$\&\%84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4}?\&98\#\$\&\%84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84,\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84,\$\&84,\$\&84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84,\$\&84,\$\&84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84,\$\&84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&84+\$\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&Q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q\&q}(CN,\&6\&1(N^{\text{L}'4})\&98+\&84ZC7D\&[\chi^{\text{M}\&q\&q)(CN,\&6\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&4\&1(N^{\text{L}'4})\&98+\&1(N^{\text{L}'4})\&98+\&1(N^{\text{L}'4})\&98+\&1(N^{\text{L}'4})\&98+\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&1(N^{\text{L}'4})\&$

 $O4"*D\%\%\&:=\&\#\$"\%C7\$\%9."9\&+:\#;\&4\$?\&7"9\&4I\%=:7\&"**\&9.7\$\&7"9\$7\&I7:C6\%\&7\$\%C*9\$?\&84\&5\$*8";\&*89D\&"4?\&A\$6"7"98:4\&84?8+"9:7\%9."9\&P\$7\&I::?\&9:\&\$Y+\$**\$49\&[S";*\$\%a2Q\setminus(\&S))$

 $\begin{array}{l} \textbf{Item cluster analysis.} < 8\$7"7+.\$+"*\&+*C\%9\$7\&"4"*D\%8\%\&:=\&\$9\$\#\%\&P\$9.\&9.\&9.\&R"7?2<::G\&) \$9.:?\&67:?C+\$?\&"\&7\$\%C*9\&\%\$\#\$"7\&9:\&7"9\$:4"*\&\$9\$\#\&17:C6841\%(\&S..\&O2+*C\%9\$7\&\%:*C98:4\&17:C6\$?\&89\$\#\%\&849:\&+*C\%9\$7\%\&9."9\&\&:K\$7*"66\$?\&+:4\%8?\$7";*D\&P\$9.\&7"9\$:4"*\&17:C6\%(\&O\&+:\#6"78\%:4\&:=\&89\$\#2\%C;\%+"*\$\&+:77\$*"9\$:4\%\&2:7\&89\$\#\%\&9"98\%*14:2*C6\%,\&;"%\$?\&:4\&7"98:4"*\&K\$7\%C\%\&\$\#6878+"*\&+*C\%9\$7841,\&84?8+"9\$?\&9..\$7\$\&P"\%\&4:\&\%9"98\%98+"*\&"?K"49"1$\&9:\&\#:K841\&"4D\&89\$\#\&9:\&"\&?8=\$7\$49\&17:C6\&[\%\$\$\&S";*\$\%^N\&"4?\&^^\setminus(\&$

Table 10: Content and Into	ernal Consistency of Rationa	l MPAI-4 Subscales
Abilities	Adjustment	Participation
Mobility	Anxiety	
Use of handså	Depression	
Motor speech	Irritability, anger,	
Communication &	Aggression	
Fund of information	Pain and headache	
Visuospatial abilities&	Fatigue	
/8FF84\$%%T;"*"4+\$&[(]^\&	Sensitivity to mild &	
$X8\%8:4\&[(Oc\u\&$		
OC?898:4&[(^c\&		
O 99\$498: 4T+: 4+\$497''98: 4&		
[(]Q\å		
) \$#:7D&&[(aa\&		
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$[(aa\k$		

Table 11: Content and Internal Consistency of Empirical MPAI-4 Subscales Derived from Cluster Analysis (Ward-Hook Method) Content and Internal Consistency of Empirical MPAI-4 Subscales Content and Internal Consistency of				
Abilities	Adjustment	Participation		

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Table 12: Rotated factor structure of the MPAI-4					
I	II	III	IV		

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O 99\$498 : 4T&& &&&+ : 4+\$497"98 : 4&

>4898"98:4&

3:##C48+"98:4&

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 $\begin{array}{l} \textbf{17:C6\%\&"7\$\&67:K8?\$?\&84\&S";*\$\&^](\&-\$"7\%:4\&+:77\$"98:4\%\&:=\&)\ M-\lambda\&\#\$"\%C7\$\%\&P89.\&9.\&9.\$\&O27"9\$7\&'C**\&A+"*\$\&+:\#6:\%89\$\&84?\$Y\&["4?\&P89.\&\$"+.\&:9.\$7\\&"7\$\&\%.:P4\&84\&9.\$\&S";*\$\&^a(\&\&\&S";*\&A^a(\&\&A^a(\&S),*\&A^a(\&\&S),*\&A^a(\&\&S),*\&A^a(\&\&S),*\&A^a(\&\&S),*\&A^a(\&\&S),*\&A^a(\&\&S),*\&A^a(\&\&S),*\&A^a(\&\&S),*\&A^a(\&$

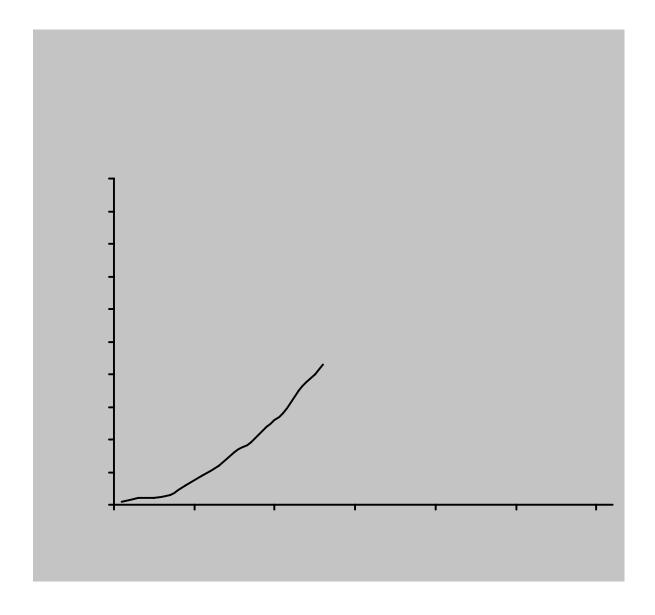
Table 14: Rasch indicators for M2PI completed by each of 3 rater groups and composite indices.				
- "798+86"98: 4&>4?\$Y& +: #6*\$9\$?&;DL&	- \$7% : 4&5 \$*8" ; 8*89D& [A\$6"7"98 : 4\&	>9\$#&5\$*8";8*89D& [A\$6"7"98:4\&		
-\$:6*\$&P89.&O1>,&AJ,&%9''==&	(Qdl	(ddå		
[O27''9\$7&+:#6:%89\$\&	[M(QN\&	[d(QN)]		

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Table 15: Pears		_	measures	for MPA	I Full Sca	le and M	2PI
å	å) M->k+: #6*\$9\$?k;DLkkk					
&	' C**åA+''*\$å	-\$:6*\$k	-\$:6*\$å	-\$:6*\$k	A J &"4?&&	-\$:6*\$k	ΑJ&
å	[Md289\$#\&	P89.&	P89.&	P89. &	%9''==&&	P89.&	
å	O25"9\$7&	0 1>,&	0 1>₺	0.1%		0 1>₺	
) M->&	3:#6:%89\$&	ΑJ,å	"4?₺	"4?&AJ&			
+: #6*\$9\$?&;DL&	>4?\$Y&	%9''==&&	%9''==&&				
-\$:6*\$&P89.&	&	å	&	å	å	å	å
O 1>,&A J ,&%9"==&&	(ccl						
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A9"==&"4?&AJ&	&	å	å	&	å	&	å
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+:#6:%89\$\&							
-\$:6*\$&P89.&	&	å	å	å	å	&	å
0 1>4	(QN&	(cQl	(Q^k	(Qcl	(bNå		
AJά	&	å	å	&	å	&	å
	(cM&	(QQl	(ccl	(QQk	(dMå	(bM&	
A9''==&	&	å	å	å	å	&	å
	(b^å	(Qd&	(QQ&	(cN&	(d0&	(aN&	(c]&

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REFERENCES

- ^(& J ??%: 4&1 ,& 5 C # 4\$D&- ,&!: . 4%: 4&- ,&S . : # "%2A9: 4\$**&H(&3*848+"*&C%\$&: =&9 . \$&) "D:2-: 79*"4?& O?"69"; 8*89D&>4K\$49: 7D&84&7\$. "; 8*89"98: 4&"=9\$7&6"\$?\$"978+&"+eC87\$?&; 7"84&84ZC7D(&Dev Med Child Neurol. MNNbg]QLdNQ2dMM(&
- M(& 1: "G\$&3 (&AC6\$7K8%8: 4&5 "984 I&A+"*\$L&O&#\$"%C7\$&:=&=C4+98: 4"*&: C9+: #\$&=7: #&;7"84&84ZC7D(&Arch Phys Med Rehabil.

- M^(&) "*\$+&! '(&S . \$&) "D:2-:79*"4?&-"798+86"98:4&>4?\$Y&[) M->\L&&O&;78\$=&"4?&6%D+.:#\$978+"**D2%:C4?&#\$"%C7\$&:=&;7"84&84ZC7D&:C9+:#\$(&Archives of Physical Medicine & Rehabilitation. MNN]gQaL^dQd2^ddb(&
- MM(& <"**&U) ,& 1 C% . 48G&S,&E"G8%8+2U"F"F8&1 ,&R 78I . 9&!,&3 "49"I"**:&O(&O%%\$%%84I&97"C#"98+&;7"84&84ZC7D&:C9+:#\$&#\$"%C7\$&=:7&*:4I29\$7#&=:**:P2C6&:=&+:##C489D2;"%\$?&84?8K8?C"*%(&Archives of Physical Medicine & Rehabilitation. MNN^gQM[O\LObc2Oc](&

APPENDICES

Raw Score to T Score Conversion Tables

 $5"P\&\%+:7\$\%\&=7:\#\&9.\$\&S:9"*\&A+:7\$\&"4?\&9.7\$\&>4?8+\$\%\&:=\&9.\$\&)-O>2]\&\#"D\&;\&\$\&+:4K\$79\$?\&9:\&\%9"4?"7?8F\$?\&S\&\%+:7\$\%\&[)$"4\&q\&aNg\&A/\&q\&^N\&;B\&C\%84I\&S";*$\%\&84\&O66$4?8+$\%&^2>X(\&&T-score\&+:4K\$7\%8:4\&8\%67\$+:\#$4?\$?\&5;$+"C\%&\&89\&="+8*89"9$\%&+:#6"78\%:4\&;\$9P$$4\&\%C;\%+"*$\&\%+:7$\%&"4?\&8?$498=8+"98:4\&:=&\%6$*+8=8+&"7$"\%=:7\&849$\%57K$$498:4,&8($(,\&";8*89D,\&"+98K89D,\&"4?\&6"798+86"98:4(\&\&\&8)$

 $T\text{-}scores \&84\&0 66\$4?8Y\&2\&"7\$\&; "\%\$?\&: 4\&"\&7\$=\$7\$4+\$\&\%" \# 6*\$\&: \&OQb\&84?8K8?C"*\%\&P89.\&O 1>\&7\$+\$8K84I\&: C96"98\$49,\&+: \# # C489D2; "\%\$?\&: 7\&7\$\%8?\$498"*\&7\$."; 8*89"98: 4(\&\&/$\#:I7"6.8+\&=\$"9C7\$\%: =\&9.$\&\%" \# 6*\$\&"7\$\&?\$\%+78; \$?\&84\&S"; *\$\&M(\&\&5"984I%\&=:7\&9.8\&\&\%" \# 6*\$\&P$7\$\& \# "?\$\&; D\&67:=\$\%8:4"*\&\%9"==(\&&O**\&:=\&9.\$\%$\&84?8K8?C"*%\&:"K$\&"\&:8\%9:7D\&:=&O1>\&P.8+.\&P"%\&\#:?\$7"9\$\&9: \&\%\$K\$7\$\&84\&9.$\&K"%9\&\#"Z:789D\&:=&+"\%$\%(&\&3:4\%$eC$49*D\&T-score\&+:4K$7\%8:4\&?:$\%&4:9\&67:K8?$\&4:7\#"98K$\&?"9"\&84\&9.$\&+*"\%8+\&\4%\&:=&+:#6"78\%:4\&9: \&"\&h4:7#"*i&[8(\$(,\&C484ZC7\$?\\&7\$=\$7\$4+\$\&17:C6(\&\&T-score\&+:4K\$7\%8:4\&=:7\&9.$\&) - O>2]&?:$\%\&67:K8?$\&+:#6"7$

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APPENDIX I: NATIONAL SAMPLE STAFF RATINGS

Table I-A: Conversion of raw scores to T scores (Mean = 50; SD = 10) for Staff MPAI-4 Total Score (National sample)

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APPENDIX I: N

APPENDIX I: NATIONAL SAMPLE STAFF RATINGS

Table I-D: Conversion of raw scores to T scores (Mean = 50; SD = 10) for

APPENDIX II: M

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APPENDIX III: MAYO SAMPLE RATINGS BY PEOPLE WITH ABI

Table III-A: Conversion of raw scores to T scores (Mean = 50; SD = 10) for Self MPAI-4 Total Score (Mayo sample)

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APPENDIX

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APPENDIX IV: MAYO SAMPLE SO RATINGS&
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