**PROMIS Score Metric Aligned with**

**10 Levels of Cognitive Impairment and Assigned Bonus Points**

**Table 1.**

| **Raw PROMIS Score** | **T-Score** | **SE\*** | **Level of Cognitive Impairment** | **Amount of Cognitive Bonus Points Added Per Module** |
| --- | --- | --- | --- | --- |
| **8** | **22.41** | **4.10** | **10**  **(Greatest Impairment)** | **15** |
| **9** | **25.73** | **3.10** |
| **10** | **27.45** | **2.85** |
| **11** | **28.90** | **2.60** | **9** | **12** |
| **12** | **30.11** | **2.45** |
| **13** | **31.18** | **2.34** |
| **14** | **32.15** | **2.26** | **8** | **10** |
| **15** | **33.06** | **2.21** |
| **16** | **33.92** | **2.18** |
| **17** | **34.75** | **2.16** | **7** | **8** |
| **18** | **35.56** | **2.15** |
| **19** | **36.36** | **2.15** |
| **20** | **37.15** | **2.15** | **6** | **7** |
| **21** | **37.93** | **2.15** |
| **22** | **38.71** | **2.16** |
| **23** | **39.50** | **2.16** | **5** | **5** |
| **24** | **40.29** | **2.17** |
| **25** | **41.09** | **2.18** |
| **26** | **41.90** | **2.19** | **4** | **3** |
| **27** | **42.72** | **2.19** |
| **28** | **43.57** | **2.20** |
| **29** | **44.43** | **2.21** | **3** | **2** |
| **30** | **45.31** | **2.23** |
| **31** | **46.22** | **2.25** |
| **32** | **47.17** | **2.28** | **2** | **1** |
| **33** | **48.18** | **2.33** |
| **34** | **49.26** | **2.40** |
| **35** | **50.45** | **2.51** | **1** | **0** |
| **36** | **51.80** | **2.70** |
| **37** | **53.36** | **2.93** |
| **38** | **55.36** | **3.34** | **0**  **(Least Impairment)** | **0** |
| **39** | **58.08** | **3.91** |
| **40** | **63.48** | **5.65** |

NOTE: For the adult PROMIS v2.0 Adult Cognitive Function 8a short form, a raw score of 10 converts to a T-score of 27.45 with a standard error (SE) of 2.85. Thus, the 95% confidence interval around the observed score ranges from 21.86 to 33.04 (T-score + (1.96\*SE) or 27.45 + (1.96\*2.85).

**Table 2.**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LEVEL 1** | | | | | | | | | | | |
| **Module** | | **Exercise** | **Points Earned When Completing Each Exercise** | **Approx. Time Needed to Complete Each Exercise to Earn Bonus Points** | | **Minimum Time Needed to Complete Each Module in Order to Earn Bonus Points Per Module** | | **Points Earned if Under Max Time to Complete** | | **Maximum Possible Points One Can Earn with Each Module** | **Stars Associated with Points Earned Each Module** |
| **Time to get to**  **Module 1 From Hospital Room** | | **0** | **1** | **60 sec** | | **120 Sec.**  (Must be under these seconds.) | | **5 Pts.** | | **14 Pts.** | 1 Star=9-10pts  2 Stars=11pts  3 Stars=12pts  4 Stars=13pts  5 Stars=14pts |
| **Module 1** | | **1** | **1** | **10 sec** | |
| **2** | **1** | **10 sec** | |
| **3** | **1** | **10 sec** | |
| **4** | **1** | **10 sec** | |
| **5** | **2** | **10 sec** | |
| **6** | **2** | **10 sec** | |
|  |  | | | |  | |  | |  |  |  |
| **Time to get to Module 2** | | **0** | **3** | **12 sec** | | **102 Sec.**  (Must be under these seconds.) | | **6 Pts.** | | **33 Pts.** | 1 Star=27-28pts  2 Stars=29-30pts  3 Stars=31pts  4 Stars=32pts  5 Stars=33pts |
| **Module 2** | | **1** | **3** | **15 sec** | |
| **2** | **3** | **15 sec** | |
| **3** | **4** | **15 sec** | |
| **4** | **4** | **15 sec** | |
| **5** | **5** | **15 sec** | |
| **6** | **5** | **15 sec** | |
|  |  | | | |  | |  | |  |  |  |
| **Time to get to Module 3** | | **0** | **6** | **12 sec** | | **102 Sec.**  (Must be under these seconds.) | | **8 Pts.** | | **50 Pts.** | 1 Star=42-43pts  2 Stars=44-45pts  3 Stars=46-47pts  4 Stars=48-49pts  5 Stars=50pts |
| **Module 3** | | **1** | **6** | **15 sec** | |
| **2** | **6** | **15 sec** | |
| **3** | **6** | **15 sec** | |
| **4** | **6** | **15 sec** | |
| **5** | **6** | **15 sec** | |
| **6** | **6** | **15 sec** | |
|  |  | | | |  | |  | |  |  |  |
| **Time to get to Module 4** | | **0** | **7** | **12 sec** | | **117 Sec.**  (Must be under these seconds.) | | **8 Pts.** | | **57 Pts.** | 1 Star=49-50pts  2 Stars=51-52pts  3 Stars=53-54pts  4 Stars=55-56pts  5 Stars=57pts |
| **Module 4** | | **1** | **7** | **17 sec** | |
| **2** | **7** | **17 sec** | |
| **3** | **7** | **17 sec** | |
| **4** | **7** | **17 sec** | |
| **5** | **7** | **17 sec** | |
| **6** | **7** | **17 sec** | |
|  |  | | | |  | |  | |  |  |  |
| **Time to get to Module 5** | | **0** | **8** | **12 sec** | | **117 Sec.**  (Must be under these seconds.) | | **10 Pts.** | | **66 Pts.** | 1 Star=56-57pts  2 Stars=58-60pts  3 Stars=61-62pts  4 Stars=63-64pts  5 Stars=65-66pts |
| **Module 5** | | **1** | **8** | **17 sec** | |
| **2** | **8** | **17 sec** | |
| **3** | **8** | **17 sec** | |
| **4** | **8** | **17 sec** | |
| **5** | **8** | **17 sec** | |
| **6** | **8** | **17 sec** | |
|  | |  |  |  | | **558 Sec or**  **9 Min / 30Sec.** | | **37 Points** | | **220** |  |

**Ten Cognitive Impairment Levels, with Handicap Bonus Point System**

**(with Equivalent Five Stars)**

**Table 3.**

|  |  |
| --- | --- |
| **COGNITIVE LEVEL 1**  (Least Level of impairment)  9-10pts + 0 = 9-10pts = **1 STAR**  11pts + 0 = 11pts = **2 STARS**  12pts + 0 = 12pts = **3 STARS**  13pts + 0 = 13pts = **4 STARS**  14pts + 0 = 14pts = **5 STARS**  **COGNITIVE LEVEL 2**  9-10pts + 1 = 10-11pts = **1 STAR**  11pts + 1 = 12pts = **2 STARS**  12pts + 1 = 13pts = **3 STARS**  13pts + 1 = 14pts = **4 STARS**  14pts + 1 = 15pts = **5 STARS**  **COGNITIVE LEVEL 3**  9-10pts + 2 = 11-12pts = **1 STAR**  11pts + 2 = 13pts = **2 STARS**  12pts + 2 = 14pts = **3 STARS**  13pts + 2 = 15pts = **4 STARS**  14pts + 2 = 16pts = **5 STARS**  **COGNITIVE LEVEL 4**  9-10pts + 3 = 12-13pts = **1 STAR**  11pts + 3 = 14pts = **2 STARS**  12pts + 3 = 15pts = **3 STARS**  13pts + 3 = 16pts = **4 STARS**  14pts + 3 = 17pts = **5 STARS**  **COGNITIVE LEVEL 5**  9-10pts + 5 = 14-15pts = **1 STAR**  11pts + 5 = 16pts = **2 STARS**  12pts + 5 = 17pts = **3 STARS**  13pts + 5 = 18pts = **4 STARS**  14pts + 5 = 19pts = **5 STARS** | **COGNITIVE LEVEL 6**  9-10pts + 7 = 16-17pts = **1 STAR**  11pts + 7 = 18pts = **2 STARS**  12pts + 7 = 19pts = **3 STARS**  13pts + 7 = 20pts = **4 STARS**  14pts + 7 = 21pts = **5 STARS**  **COGNITIVE LEVEL 7**  9-10pts + 8 = 17-18pts = **1 STAR**  11pts + 8 = 19pts = **2 STARS**  12pts + 8 = 20pts = **3 STARS**  13pts + 8 = 21pts = **4 STARS**  14pts + 8 = 22pts = **5 STARS**  **COGNITIVE LEVEL 8**  9-10pts + 10 = 19-20pts = **1 STAR**  11pts + 10 = 21pts = **2 STARS**  12pts + 10 = 22pts = **3 STARS**  13pts + 10 = 23pts = **4 STARS**  14pts + 10 = 24pts = **5 STARS**  **COGNITIVE LEVEL 9**  9-10pts + 12 = 21-22pts = **1 STAR**  11pts + 12 = 23pts = **2 STARS**  12pts + 12 = 24pts = **3 STARS**  13pts + 12 = 25pts = **4 STARS**  14pts + 12 = 26pts = **5 STARS**  **COGNITIVE LEVEL 10**  (Worse Level of impairment)  9-10pts + 15 = 24-25pts = **1 STAR**  11pts + 15 = 26pts = **2 STARS**  12pts + 15 = 27pts = **3 STARS**  13pts + 15 = 28pts = **4 STARS**  14pts + 15 = 29pts = **5 STARS** |

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