



## MMPI®-3

### Spinal Procedure Candidate Interpretive Report

*Andrew R. Block, PhD, Ryan J. Marek, PhD, & Yossef S. Ben-Porath, PhD*

---

ID Number:	Ms. E
Age:	50
Gender:	Female
Marital Status:	Married
Years of Education:	20
Date Assessed:	05/09/2024

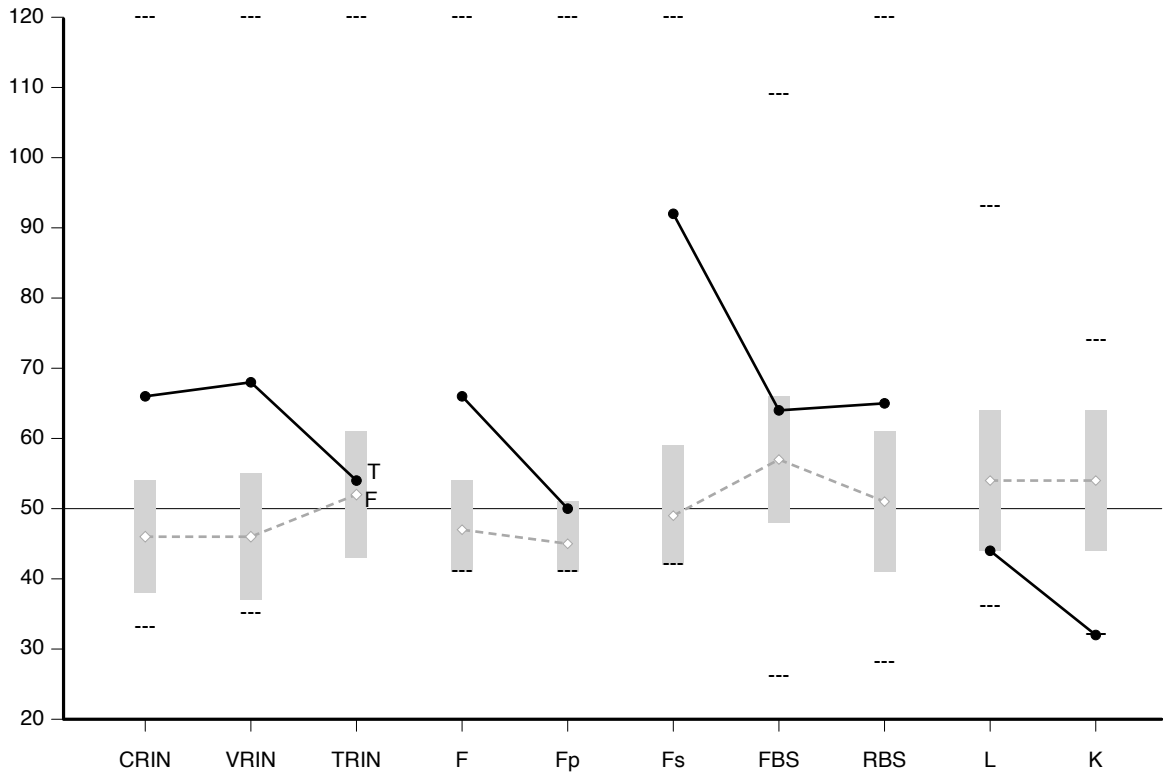
Copyright © 2024 by the Regents of the University of Minnesota. All rights reserved. Distributed exclusively under license from the University of Minnesota by NCS Pearson, Inc. Portions reproduced from the *MMPI-3 English Test Booklet*. Copyright © 2020 by the Regents of the University of Minnesota. All rights reserved. Portions excerpted from the *MMPI-3 Manual for Administration, Scoring, and Interpretation*. Copyright © 2020 by the Regents of the University of Minnesota. All rights reserved. Portions excerpted from the *MMPI-3 Technical Manual*. Copyright © 2020 by the Regents of the University of Minnesota. All rights reserved. Used by permission of the University of Minnesota Press.

**Minnesota Multiphasic Personality Inventory** and **MMPI** are registered trademarks of the Regents of the University of Minnesota. **Pearson** is a trademark, in the US and/or other countries, of Pearson Education, Inc., or its affiliates.

This report contains copyrighted material and trade secrets. Qualified licensees may excerpt portions of this output report, limited to the minimum text necessary to accurately describe their significant core conclusions, for incorporation into a written evaluation of the examinee, in accordance with their profession's citation standards, if any. No adaptations, translations, modifications, or special versions may be made of this report without prior written permission from the University of Minnesota Press.

[ 1.9 / RE1 / QG1 ]

## MMPI-3 Validity Scales



Raw Score:	11	8	14	8	1	9	14	10	2	0
T Score:	66	68	54	66	50	92	64	65	44	32
Response %:	100	100	100	100	100	100	100	100	100	100
Cannot Say (Raw):	0									

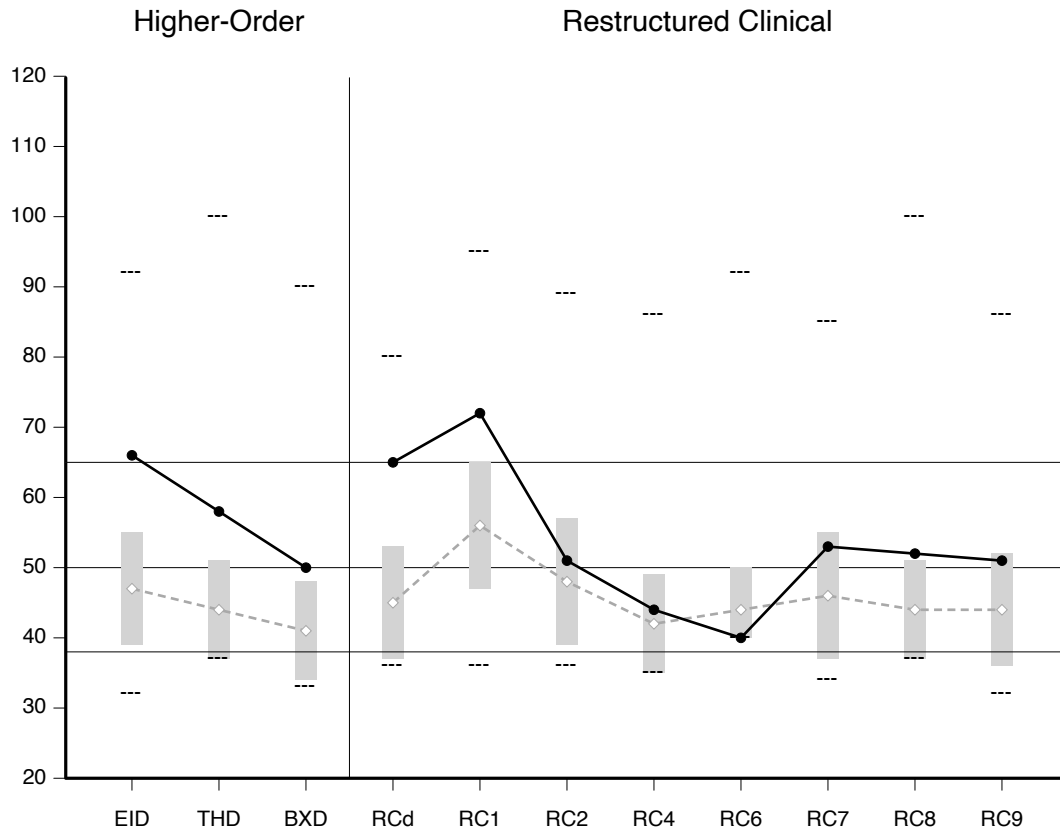
Comparison Group Data: Spinal Procedure Candidate (Women), N = 810

Mean Score (◇---◇):	46	46	52	47	45	49	57	51	54	54
Standard Dev (±1 SD):	8	9	9	7	6	10	9	10	10	10
Percent scoring at or below patient:	99	99	77	98	91	99.8	86	92	25	2

The highest and lowest T scores possible on each scale are indicated by a "---"; MMPI-3 T scores are non-gendered.

CRIN	Combined Response Inconsistency	F	Infrequent Responses	L	Uncommon Virtues
VRIN	Variable Response Inconsistency	Fp	Infrequent Psychopathology Responses	K	Adjustment Validity
TRIN	True Response Inconsistency	Fs	Infrequent Somatic Responses		
		FBS	Symptom Validity Scale		
		RBS	Response Bias Scale		

## MMPI-3 Higher-Order (H-O) and Restructured Clinical (RC) Scales



Raw Score:	25	5	7	12	12	3	2	0	9	3	7
T Score:	66	58	50	65	72	51	44	40	53	52	51
Response %:	100	100	100	100	100	100	100	100	100	100	100

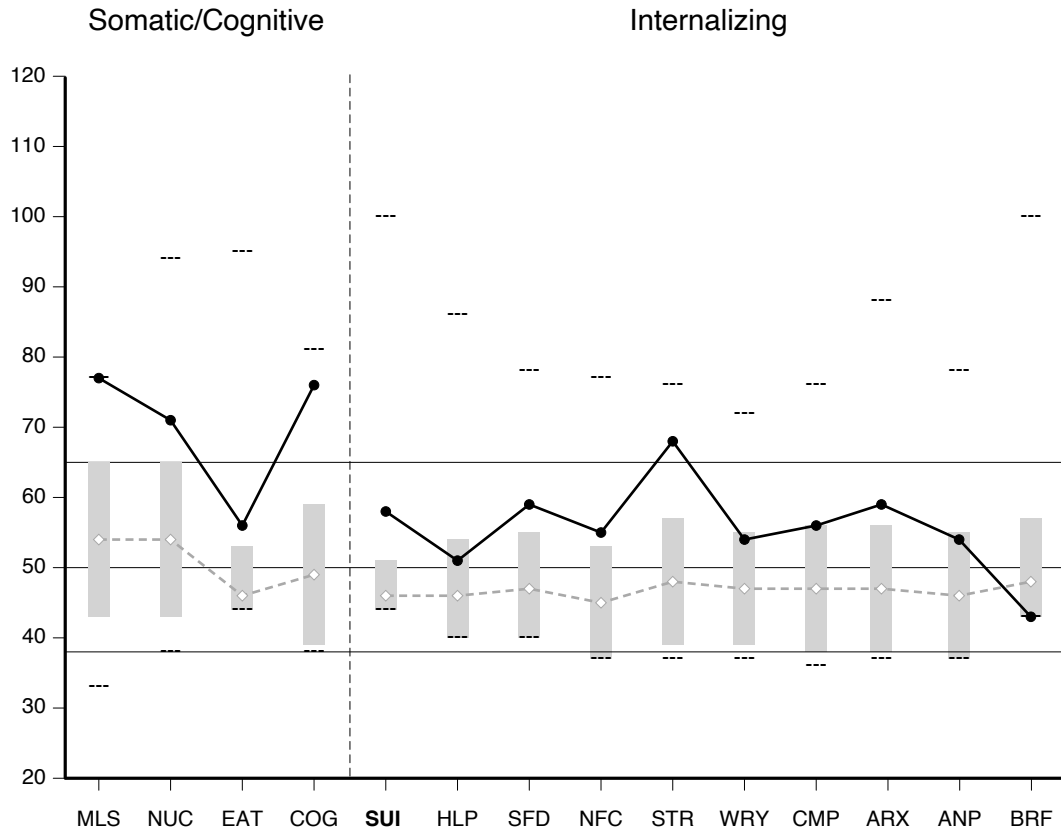
Comparison Group Data: Spinal Procedure Candidate (Women), N = 810

Mean Score (◇---◇):	47	44	41	45	56	48	42	44	46	44	44
Standard Dev (±1 SD):	8	7	7	8	9	9	7	6	9	7	8
Percent scoring at or below patient:	98	97	91	97	96	72	77	69	87	92	88

The highest and lowest T scores possible on each scale are indicated by a "---"; MMPI-3 T scores are non-gendered.

EID	Emotional/Internalizing Dysfunction	RCd	Demoralization	RC6	Ideas of Persecution
THD	Thought Dysfunction	RC1	Somatic Complaints	RC7	Dysfunctional Negative Emotions
BXD	Behavioral/Externalizing Dysfunction	RC2	Low Positive Emotions	RC8	Aberrant Experiences
		RC4	Antisocial Behavior	RC9	Hypomanic Activation

## MMPI-3 Somatic/Cognitive Dysfunction and Internalizing Scales



Raw Score:	7	6	1	10	1	1	4	5	5	5	5	7	5	0
T Score:	77	71	56	76	58	51	59	55	68	54	56	59	54	43
Response %:	100	100	100	100	100	100	100	100	100	100	100	100	100	100

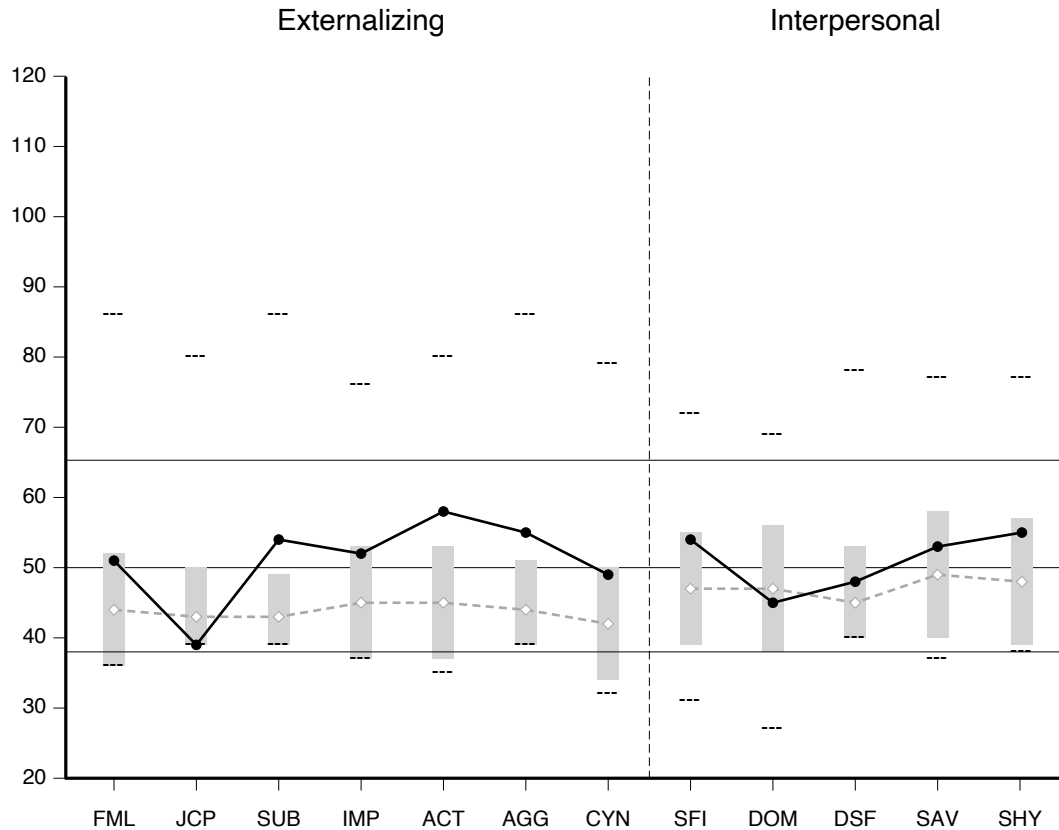
Comparison Group Data: Spinal Procedure Candidate (Women), N = 810

Mean Score (◇--◇):	54	54	46	49	46	46	47	45	48	47	47	47	46	48
Standard Dev (±1 SD):	11	11	7	10	5	8	8	8	9	8	9	9	9	9
Percent scoring at or below patient:	100	95	94	99	98	89	95	93	98	91	90	93	88	68

The highest and lowest T scores possible on each scale are indicated by a "---"; MMPI-3 T scores are non-gendered.

MLS	Malaise	SUI	Suicidal/Death Ideation	WRY	Worry
NUC	Neurological Complaints	HLP	Helplessness/Hopelessness	CMP	Compulsivity
EAT	Eating Concerns	SFD	Self-Doubt	ARX	Anxiety-Related Experiences
COG	Cognitive Complaints	NFC	Inefficacy	ANP	Anger Proneness
		STR	Stress	BRF	Behavior-Restricting Fears

## MMPI-3 Externalizing and Interpersonal Scales



Raw Score:	3	0	3	3	5	2	7	8	6	1	4	4
T Score:	51	39	54	52	58	55	49	54	45	48	53	55
Response %:	100	100	100	100	100	100	100	100	100	100	100	100

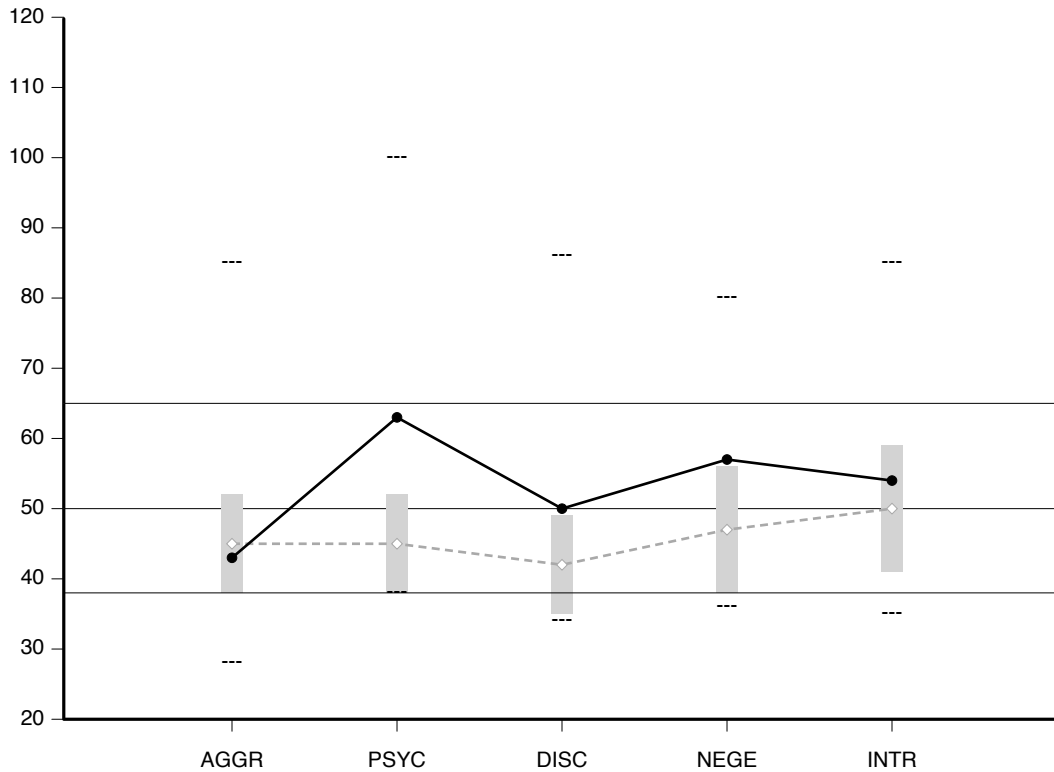
Comparison Group Data: Spinal Procedure Candidate (Women), N = 810

Mean Score (<math>\langle \diamond \text{---} \diamond ></math>):	44	43	43	45	45	44	42	47	47	45	49	48
Standard Dev (<math>\pm 1 \text{SD}</math>):	8	7	6	8	8	7	8	8	9	8	9	9
Percent scoring at or below patient:	88	63	97	88	95	97	86	89	63	78	78	89

The highest and lowest T scores possible on each scale are indicated by a "---"; MMPI-3 T scores are non-gendered.

FML	Family Problems	ACT	Activation	SFI	Self-Importance
JCP	Juvenile Conduct Problems	AGG	Aggression	DOM	Dominance
SUB	Substance Abuse	CYN	Cynicism	DSF	Disaffiliativeness
IMP	Impulsivity			SAV	Social Avoidance
				SHY	Shyness

### MMPI-3 PSY-5 Scales



Raw Score:	6	5	5	9	6
T Score:	43	63	50	57	54
Response %:	100	100	100	100	100

Comparison Group Data: Spinal Procedure Candidate (Women), N = 810

Mean Score (◇---◇):	45	45	42	47	50
Standard Dev (±1 SD):	7	7	7	9	9
Percent scoring at or below patient:	50	99.5	91	91	80

The highest and lowest T scores possible on each scale are indicated by a "---"; MMPI-3 T scores are non-gendered.

- AGGR Aggressiveness
- PSYC Psychoticism
- DISC Disconstraint
- NEGE Negative Emotionality/Neuroticism
- INTR Introversion/Low Positive Emotionality

## MMPI-3 T SCORES (BY DOMAIN)

### PROTOCOL VALIDITY

Content Non-Responsiveness	0	66	68	54 T			
	CNS	CRIN	VRIN	TRIN			
Over-Reporting	66	50			<b>92</b>	64	65
	F	Fp			<b>Fs</b>	FBS	RBS
Under-Reporting	44	32					
	L	K					

### SUBSTANTIVE SCALES

Somatic/Cognitive Dysfunction	<b>72</b>	<b>77</b>	<b>71</b>	56	<b>76</b>				
	<b>RC1</b>	<b>MLS</b>	<b>NUC</b>	EAT	<b>COG</b>				
Emotional Dysfunction	<b>66</b>	<b>65</b>	<b>58</b>	51	<b>59</b>	55			
	<b>EID</b>	<b>RCd</b>	<b>SUI</b>	HLP	<b>SFD</b>	NFC			
		51	54						
		RC2	INTR						
		53	<b>68</b>	54	56	<b>59</b>	54	43	57
		RC7	<b>STR</b>	WRY	CMP	<b>ARX</b>	ANP	BRF	NEGE
Thought Dysfunction	<b>58</b>	40							
	<b>THD</b>	RC6							
		52							
		RC8							
		<b>63</b>							
		<b>PSYC</b>							
Behavioral Dysfunction	50	44	51	39	<b>54</b>				
	BXD	RC4	FML	JCP	<b>SUB</b>				
		51	52	<b>58</b>	55	49			
		RC9	IMP	<b>ACT</b>	AGG	CYN			
		50							
		DISC							
Interpersonal Functioning	54	45	43	48	53	55			
		SFI	DOM	AGGR	DSF	SAV	SHY		

**Scale scores shown in bold font are interpreted in the report. Some bold scores fall below the *MMPI-3 Manual for Administration, Scoring, and Interpretation* cutoffs for clinically significant elevation but are substantially higher than the Spinal Procedure Candidate Comparison Group mean.**

**Note.** This information is provided to facilitate interpretation following the recommended structure for MMPI-3 interpretation in Chapter 5 of the *MMPI-3 Manual for Administration, Scoring, and Interpretation*, which provides details in the text and an outline in Table 5-1.

*This interpretive report is intended for use by a professional qualified to interpret the MMPI-3 in the context of a presurgical psychological evaluation (PPE) of spinal procedure candidates. The information it contains should be considered in the context of the patient's background, the psychosocial risk factors for adverse procedural outcomes, the clinical interview, findings from supplemental tests, and other relevant information.*

*Some sections of the report interpret the patient's scores in reference to the general population norms. Other sections rely on the Spinal Procedure Candidate Comparison Group data. Interpretive statements in the Comparison Group Findings, Preprocedural Psychological Risk Factors, Postprocedural Outcomes, and Treatment Recommendations sections are based on comparisons with the Spinal Procedure Candidate Comparison Group (Women). Statements in the remaining sections of the report are based on T scores derived from the general MMPI-3 normative sample.*

*The report includes extensive annotation that appears as superscripts following each statement in the narrative. The annotation is keyed to endnotes with accompanying research references that appear in the final two sections of the report. Additional information about the annotation features is provided in the headnotes to these sections and in the MMPI-3 User's Guide for the Spinal Procedure Candidate Interpretive Report.*

---

## SYNOPSIS

Scores on the MMPI-3 Validity Scales raise concerns about the possible impact of over-reporting (specifically, of somatic symptoms) on the validity of this protocol. With that caution noted, scores on the Substantive Scales indicate somatic and cognitive complaints, and emotional dysfunction. Somatic complaints include preoccupation with poor health, malaise, and neurological symptoms. Cognitive complaints include difficulties in memory and concentration. Emotional-internalizing findings include **suicidal ideation**, demoralization, and stress.

Comparison group findings point to possible concerns about somatic complaints including preoccupation with health and neurological complaints, cognitive complaints, emotional problems including unhappiness and dissatisfaction, suicidality, self-doubt, stress, and anxiety, unusual thoughts including odd perceptions and beliefs, substance use, and activation.

Possible preprocedural psychological risk factors are identified in the Demoralization and Depression, Pain and Somatic Sensitivity, Pain Coping, Health Orientation and Medical Adherence, Anxiety and Stress, Fear/Avoidance, Interpersonal, Substance Abuse, and Recovery Disincentive domains.

## PROTOCOL VALIDITY

### Content Non-Responsiveness

The patient produced scorable responses to all the MMPI-3 items. She also responded relevantly to the items on the basis of their content.

### Over-Reporting

The patient reported a much larger than average number of somatic symptoms rarely reported by individuals with genuine medical conditions<sup>1</sup>. This level and type of infrequent responding may occur in individuals with substantial medical problems who report credible symptoms, but it could also reflect exaggeration. In individuals with no history or other corroborating evidence of physical health problems this likely indicates non-credible reporting of somatic symptoms<sup>2</sup>. Scores on the Somatic Complaints (RC1), Malaise (MLS), and Neurological Complaints (NUC) scales should be interpreted in light of this caution<sup>3</sup>.



## Under-Reporting

There are no indications of under-reporting in this protocol.

## SUBSTANTIVE SCALE INTERPRETATION

*Clinical symptoms, personality characteristics, and behavioral tendencies of the patient are described in this section and organized according to an empirically guided framework. (Please see Chapter 5 of the MMPI-3 Manual for Administration, Scoring, and Interpretation for details.) Statements containing the word "reports" are based on the item content of MMPI-3 scales, whereas statements that include the word "likely" are based on empirical correlates of scale scores. Specific sources for each statement can be viewed with the annotation features of this report.*

**The following interpretation needs to be considered in light of cautions noted about the possible impact of over-reporting (specifically, of somatic symptoms) on the validity of this protocol.**

### Somatic/Cognitive Dysfunction

The patient reports multiple somatic complaints including gastrointestinal symptoms<sup>4</sup> and vague neurological complaints<sup>5</sup>. She likely perceives her physical problems as life-interfering<sup>6</sup>. She also reports a general sense of malaise manifested in poor health, and feeling tired, weak, and incapacitated<sup>7</sup>. Indeed she is very likely preoccupied with poor health<sup>8</sup> and complains of sleep disturbance<sup>9</sup>, fatigue<sup>10</sup>, low energy<sup>11</sup>, and sexual dysfunction<sup>11</sup>. She also likely is prone to developing physical symptoms in response to stress<sup>12</sup>.

She reports a diffuse pattern of cognitive difficulties including memory problems, difficulties with attention and concentration, and possible confusion<sup>13</sup>. Indeed she very likely complains about memory problems<sup>14</sup>, has low tolerance for frustration<sup>15</sup>, does not cope well with stress<sup>16</sup>, and experiences difficulties in attention and/or concentration<sup>17</sup>.

### Emotional Dysfunction

The patient responded to one of the seven Suicidal/Death Ideation (SUI) scale items in the keyed direction<sup>18</sup>. The content of this item is provided in the Critical Responses section later in this report. She may be at risk for self-harm<sup>19</sup>, preoccupied with suicide and death<sup>20</sup>, and at risk for current suicidal ideation and attempts<sup>21</sup>.

Her responses indicate significant emotional distress<sup>22</sup>. More specifically, she reports feeling sad and unhappy and being dissatisfied with her current life circumstances<sup>23</sup>. She likely complains of feeling depressed<sup>24</sup> and experiences sadness and despair<sup>25</sup>.

The patient reports an above average level of stress<sup>26</sup>. She likely complains about stress<sup>27</sup> and feels incapable of controlling her anxiety level<sup>28</sup>.

### Thought Dysfunction

There are no indications of disordered thinking in this protocol.

### Behavioral Dysfunction

There are no indications of maladaptive externalizing behavior in this protocol.

### Interpersonal Functioning Scales

These scales provide no evidence of dysfunction.

## DIAGNOSTIC CONSIDERATIONS

*This section provides recommendations for psychodiagnostic assessment based on the patient's MMPI-3 results if her score reaches or exceeds the recommended cutoff in the MMPI-3 Manual for Administration, Scoring, and Interpretation. It is recommended that she be evaluated for the following, **bearing in mind possible threats to protocol validity noted earlier in this report:***

### Somatic/Cognitive Disorders

- Somatic symptom disorder<sup>29</sup>, if physical origins for malaise<sup>30</sup> and neurological complaints<sup>31</sup> have been ruled out
- Disorders related to attention difficulties<sup>32</sup>

### Emotional-Internalizing Disorders

- Depression-related disorder<sup>33</sup>
- Generalized anxiety disorder<sup>34</sup>

## COMPARISON GROUP FINDINGS

*This section describes the MMPI-3 substantive scale findings in the context of the Spinal Procedure Candidate Comparison Group (Women). Specific sources for each statement can be accessed with the annotation features of this report. **Preprocedural psychological risk factors, postprocedural outcomes, and treatment recommendations associated with these results, if any, are provided in subsequent sections of this report.***

*The comparison group means reported on pages 2 through 6 of this report show that spinal procedure candidates score differently from the general MMPI-3 normative sample on several scales. Problems discussed earlier in the Substantive Scale Interpretation section are based on clinically elevated normative T scores of 65 and above. Potential difficulties identified in this section are based on scores that are unusually high in relation to the Spinal Procedure Candidate Comparison Group (Women), and thus may differ from those discussed earlier. If multiple risk factors are identified, the possibility of poor spinal procedure results increases but may be mitigated with psychological intervention.*

**The following interpretation needs to be considered in light of cautions noted about the possible impact of over-reporting (specifically, of somatic symptoms) on the validity of this protocol.**

**The patient reported suicidal thoughts. These are very uncommon responses that require immediate follow-up. Only 9.0% of comparison group members responded this way<sup>18</sup>. Please see the Critical Responses section later in this report for details.**

### Somatic/Cognitive Complaints

The patient reports a comparatively high level of somatic complaints for a spinal procedure candidate. Only 6.0% of comparison group members convey this or a greater level of somatic preoccupation<sup>4</sup>. More specifically, her responses indicate a level of malaise reflecting a sensitivity to physical symptoms that may negatively affect spinal procedure results<sup>35</sup>. This level of self-perceived physical debilitation and poor health is uncommon in this population. Only 9.0% of comparison group members give evidence of this level of perceived poor health<sup>7</sup>. She also reports a relatively high level of neurological complaints for a spinal procedure candidate. Only 11.0% of comparison group members convey this or a greater level of neurological complaints<sup>5</sup>.

Her responses indicate a level of cognitive complaints that may negatively affect spinal procedure results<sup>32</sup>. This level of symptoms—such as memory problems, difficulty concentrating, and confusion—is very uncommon in this population. Only 4.0% of comparison group members demonstrate this or a greater number of cognitive complaints<sup>13</sup>.

### **Emotional/Internalizing Problems**

The patient's responses indicate a level of emotional dysfunction that may negatively affect spinal procedure results<sup>36</sup>. This level of emotional difficulties is very uncommon among spinal procedure candidates. Only 4.0% of comparison group members give evidence of this or a greater level of emotional dysfunction<sup>37</sup>. In particular, she reports a comparatively high level of unhappiness and dissatisfaction for this population. Only 4.0% of comparison group members convey this or a greater level of poor morale<sup>23</sup>. More specifically, she reports a relatively high level of self-doubt for a spinal procedure candidate. Only 9.0% of comparison group members convey this or a greater lack of confidence<sup>38</sup>.

Her responses indicate a level of stress that may negatively affect spinal procedure results<sup>39</sup>. This level of stress reactivity is uncommon among this population. Only 7.0% of comparison group members demonstrate this or a greater level of stress<sup>26</sup>. She reports a comparatively high level of problems with pervasive anxiety for a spinal procedure candidate. Only 10.0% of comparison group members convey this or a greater level of anxiety<sup>40</sup>.

### **Unusual Thoughts, Perceptions, and Beliefs**

The patient reports a comparatively high level of unusual thinking for a spinal procedure candidate. Only 5.0% of comparison group members convey such thoughts at this or a higher level<sup>41</sup>. In particular, her responses indicate a level of disconnection from reality that may negatively affect spinal procedure results<sup>42</sup>. This level of eccentric thinking is very uncommon in this population. Only 2.0% of comparison group members give evidence of this or a greater level of peculiar thinking and/or unusual perceptual experiences<sup>43</sup>.

### **Behavioral/Externalizing Problems**

The patient reports a comparatively high level of activation for a spinal procedure candidate. Only 9.0% of comparison group members convey this or a greater level of activation<sup>44</sup>.

She reports a comparatively large number of problems with substance use for this population. Only 6.0% of comparison group members convey this or a greater level of misusing substances<sup>45</sup>.

## **PREPROCEDURAL PSYCHOLOGICAL RISK FACTORS**

*Psychological risk factors associated empirically with diminished spinal procedure results are described in this section and organized according to nine problem domains identified in the professional literature as relevant to spinal procedure outcomes. (Please see the MMPI-3 User's Guide for the Spinal Procedure Candidate Interpretive Report for details.) Specific sources for each statement can be accessed with the annotation features of this report.*

**The following interpretation needs to be considered in light of cautions noted about the possible impact of over-reporting (specifically, of somatic symptoms) on the validity of this protocol.**

### **Demoralization and Depression Problems**

Compared with other spinal procedure candidates, the patient is more likely to be experiencing depressive affect<sup>46</sup> and to have a low energy level and feel exhausted<sup>47</sup>. She is also likely to have greater levels of self-perceived disability<sup>48</sup>.

### **Pain and Somatic Sensitivity Problems**

Compared with other spinal procedure candidates, the patient is more likely to have a history of multiple somatic complaints<sup>49</sup>; to convey a general sense of experiencing poor health<sup>50</sup>; and to perceive herself as deserving and needing assistance from others<sup>51</sup>. She is also likely to display higher levels of pain behavior (e.g., down time, facial grimacing, stationary movement)<sup>52</sup> and to report greater functional disability associated with pain<sup>53</sup>.

### **Pain Coping Problems**

Compared with other spinal procedure candidates, the patient is more likely to catastrophize when experiencing pain<sup>54</sup>. She is also likely to be less self-reliant<sup>55</sup>.

### **Health Orientation and Medical Adherence Problems**

Compared with other spinal procedure candidates, the patient is less likely to seek out information about health<sup>56</sup>; to feel confident in obtaining information from the physician<sup>56</sup>; and to be able to continue with exercise/diet recommendations when under stress<sup>56</sup>. She is also less likely to be engaged in overall health maintenance and improvement<sup>56</sup>.

### **Anxiety and Stress Problems**

Compared with other spinal procedure candidates, the patient is more likely to be diagnosed with an anxiety disorder<sup>57</sup>. She is also likely to report higher levels of anxiety<sup>58</sup> and to experience higher levels of current stress<sup>59</sup>.

### **Fear/Avoidance Problems**

Compared with other spinal procedure candidates, the patient is likely to express higher levels of fear and avoidance of work activities<sup>60</sup> and of physical activities<sup>61</sup> and to report more hours resting per day<sup>62</sup>. She is also more likely to have been out of work for more than 2 months<sup>63</sup>.

### **Interpersonal Problems**

Compared with other spinal procedure candidates, the patient is likely to report higher levels of anger<sup>64</sup>.

### **Substance Abuse Problems**

Compared with other spinal procedure candidates, the patient is likely to take more opioid medications for pain<sup>65</sup> and to be at increased risk for opioid abuse<sup>66</sup>.

### **Recovery Disincentive Problems**

Compared with other spinal procedure candidates, the patient is more likely to overreport physical symptoms<sup>67</sup> and to express a desire to remain off work<sup>68</sup>.

## **POSTPROCEDURAL OUTCOMES**

*The postprocedural outcome statements listed here are based on empirical correlates and prospective empirical studies indicating that, relative to other candidates, this patient is at increased risk for these specific adverse results. Inclusion of an adverse outcome does not imply that it will occur, nor can other negative outcomes be definitively ruled out. Specific sources for each statement can be accessed with the annotation features of this report.*

**The following interpretation needs to be considered in light of cautions noted about the possible impact of over-reporting (specifically, of somatic symptoms) on the validity of this protocol.**

Compared to other spinal procedure candidates, postprocedure this patient is likely to:

- Report higher levels of pain<sup>69</sup>
- Report greater levels of disability<sup>70</sup>
- Experience more negative affect and higher levels of psychological distress<sup>71</sup>
- Take Schedule II opioid medication<sup>72</sup>
- Not return to work<sup>73</sup>
- Report greater interference of pain with their lifestyle<sup>74</sup>
- Have lower levels of satisfaction with the results of the procedure<sup>75</sup>
- Convey strong feelings that procedure results did not meet expectations<sup>76</sup>

- Report a more negative overall outcome<sup>77</sup>

## TREATMENT RECOMMENDATIONS

*This section contains inferential treatment-focused recommendations specifically for spinal procedure candidates based on the patient's MMPI-3 scores. Sources for each statement can be accessed with the annotation features of this report. These recommendations should be considered in light of all the information collected as part of the PPE.*

**The following interpretation needs to be considered in light of cautions noted about the possible impact of over-reporting (specifically, of somatic symptoms) on the validity of this protocol.**

### **Recommendation Based on Elevated Suicidal/Death Ideation Scale**

**Risk for suicide should be assessed immediately**<sup>78</sup>.

### **Recommendations Based on Elevated Somatic/Cognitive Dysfunction Scales**

The patient has a heightened sensitivity to pain and somatic symptoms. Behavioral intervention, with minimal attention directed toward minor complaints, along with reinforcement of functional improvements, may be most effective postprocedure<sup>79</sup>.

She is also preoccupied with poor health and may feel fatigued and experience sleep disturbance and sexual dysfunction. Treatment techniques aimed at viewing spinal procedures as a component of overall health improvement may be most effective. Structured techniques for behavioral change, such as weight loss, diet control, smoking cessation, sexual adaptation, and sleep hygiene, may help the patient achieve the best possible outcomes<sup>35</sup>.

In addition, she is reporting vague neurological complaints. She may have issues associated with balance and gait, numbness, weakness or "paralysis," and dizziness. Intervention should include symptom management techniques such as biofeedback, hypnosis, or meditation<sup>31</sup>.

### **Recommendations Based on Elevated Emotional Dysfunction Scales**

The patient is significantly demoralized, feels overwhelmed, and may be quite dissatisfied with life circumstances. She may have difficulty becoming motivated and following treatment recommendations. Helping the patient recognize positive aspects of her situation, and focusing on each improvement, however small, may help build momentum for recovery<sup>80</sup>.

## ITEM-LEVEL INFORMATION

### **Unscorable Responses**

The patient produced scorable responses to all the MMPI-3 items.

### **Critical Responses**

*Seven MMPI-3 scales—Suicidal/Death Ideation (SUI), Helplessness/Hopelessness (HLP), Anxiety-Related Experiences (ARX), Ideas of Persecution (RC6), Aberrant Experiences (RC8), Substance Abuse (SUB), and Aggression (AGG)—have been designated by the test authors as having critical item content that may require immediate attention and follow-up. Items answered by the individual in the keyed direction (True or False) on a critical scale are listed below if her T score on that scale is 65 or higher. However, any item answered in the keyed direction on SUI is listed. The percentage of the MMPI-3 normative sample (NS) and of the Spinal Procedure Candidate Comparison Group (CG) that answered each item in the keyed direction are provided in parentheses following the item content.*

### Suicidal/Death Ideation (SUI, T Score = 58)

Item number and content omitted. (True; NS 22.2%, CG 5.6%)

### User-Designated Item-Level Information

*The following item-level information is based on the report user's selection of additional scales, and/or of lower cutoffs for the critical scales from the previous section. Items answered by the patient in the keyed direction (True or False) on a selected scale are listed below if her T score on that scale is at the user-designated cutoff score or higher. The percentage of the MMPI-3 normative sample (NS) and of the Spinal Procedure Candidate Comparison Group (CG) that answered each item in the keyed direction are provided in parentheses following the item content.*

### Infrequent Somatic Responses (Fs, T Score = 92)

- Item number and content omitted. (False; NS 7.3%, CG 12.7%)
- Item number and content omitted. (True; NS 5.0%, CG 7.0%)
- Item number and content omitted. (True; NS 9.4%, CG 6.9%)
- Item number and content omitted. (False; NS 21.4%, CG 15.8%)
- Item number and content omitted. (True; NS 18.2%, CG 11.1%)
- Item number and content omitted. (True; NS 15.4%, CG 7.7%)
- Item number and content omitted. (True; NS 14.9%, CG 11.9%)
- Item number and content omitted. (False; NS 11.9%, CG 18.0%)
- Item number and content omitted. (True; NS 3.0%, CG 4.9%)

### Note

Test items are included in the actual reports. To protect the integrity of the test, the item content does not appear in this sample report.

### Emotional/Internalizing Dysfunction (EID, T Score = 66)

- Item number and content omitted. (False; NS 17.9%, CG 14.9%)
- Item number and content omitted. (True; NS 11.3%, CG 6.4%)
- Item number and content omitted. (True; NS 44.5%, CG 28.4%)
- Item number and content omitted. (True; NS 14.9%, CG 8.4%)
- Item number and content omitted. (True; NS 18.8%, CG 12.7%)
- Item number and content omitted. (False; NS 26.7%, CG 22.6%)
- Item number and content omitted. (True; NS 13.2%, CG 8.4%)
- Item number and content omitted. (True; NS 41.0%, CG 33.3%)
- Item number and content omitted. (False; NS 15.7%, CG 8.0%)
- Item number and content omitted. (True; NS 38.0%, CG 21.6%)
- Item number and content omitted. (True; NS 31.6%, CG 26.2%)
- Item number and content omitted. (False; NS 14.6%, CG 18.9%)
- Item number and content omitted. (True; NS 31.9%, CG 23.3%)
- Item number and content omitted. (True; NS 21.5%, CG 7.3%)
- Item number and content omitted. (True; NS 58.0%, CG 39.3%)
- Item number and content omitted. (False; NS 59.7%, CG 89.8%)
- Item number and content omitted. (True; NS 27.8%, CG 11.7%)
- Item number and content omitted. (False; NS 46.0%, CG 31.4%)
- Item number and content omitted. (False; NS 58.8%, CG 63.3%)
- Item number and content omitted. (True; NS 21.5%, CG 23.2%)
- Item number and content omitted. (True; NS 35.8%, CG 27.3%)
- Item number and content omitted. (True; NS 32.0%, CG 19.5%)
- Item number and content omitted. (False; NS 16.9%, CG 14.1%)
- Item number and content omitted. (True; NS 40.6%, CG 41.7%)
- Item number and content omitted. (True; NS 22.0%, CG 7.2%)

### Thought Dysfunction (THD, T Score = 58)

- Item number and content omitted. (True; NS 35.7%, CG 21.9%)
- Item number and content omitted. (True; NS 18.2%, CG 11.1%)

Item number and content omitted. (True; NS 5.4%, CG 1.1%)  
Item number and content omitted. (True; NS 15.4%, CG 7.7%)  
Item number and content omitted. (True; NS 7.0%, CG 4.0%)

Demoralization (RCd, T Score = 65)

Item number and content omitted. (True; NS 11.3%, CG 6.4%)  
Item number and content omitted. (True; NS 44.5%, CG 28.4%)  
Item number and content omitted. (True; NS 14.9%, CG 8.4%)  
Item number and content omitted. (True; NS 41.0%, CG 33.3%)  
Item number and content omitted. (False; NS 15.7%, CG 8.0%)  
Item number and content omitted. (True; NS 23.9%, CG 10.4%)  
Item number and content omitted. (True; NS 21.5%, CG 7.3%)  
Item number and content omitted. (True; NS 58.0%, CG 39.3%)  
Item number and content omitted. (True; NS 27.8%, CG 11.7%)  
Item number and content omitted. (False; NS 46.0%, CG 31.4%)  
Item number and content omitted. (True; NS 32.0%, CG 19.5%)  
Item number and content omitted. (True; NS 22.0%, CG 7.2%)

Somatic Complaints (RC1, T Score = 72)

Item number and content omitted. (True; NS 5.0%, CG 7.0%)  
Item number and content omitted. (False; NS 25.3%, CG 16.3%)  
Item number and content omitted. (False; NS 21.9%, CG 28.6%)  
Item number and content omitted. (False; NS 37.3%, CG 63.7%)  
Item number and content omitted. (True; NS 8.8%, CG 10.2%)  
Item number and content omitted. (False; NS 21.0%, CG 36.9%)  
Item number and content omitted. (False; NS 18.8%, CG 17.5%)  
Item number and content omitted. (True; NS 10.7%, CG 7.7%)  
Item number and content omitted. (False; NS 24.2%, CG 46.7%)  
Item number and content omitted. (True; NS 12.5%, CG 14.3%)  
Item number and content omitted. (False; NS 38.2%, CG 92.3%)  
Item number and content omitted. (True; NS 18.6%, CG 50.5%)

Malaise (MLS, T Score = 77)

Item number and content omitted. (True; NS 68.2%, CG 24.7%)  
Item number and content omitted. (False; NS 47.0%, CG 62.3%)  
Item number and content omitted. (False; NS 16.5%, CG 26.7%)  
Item number and content omitted. (False; NS 59.7%, CG 89.8%)  
Item number and content omitted. (True; NS 49.7%, CG 59.1%)  
Item number and content omitted. (False; NS 28.6%, CG 60.0%)  
Item number and content omitted. (False; NS 43.3%, CG 59.8%)

Neurological Complaints (NUC, T Score = 71)

Item number and content omitted. (False; NS 21.9%, CG 28.6%)  
Item number and content omitted. (False; NS 21.0%, CG 36.9%)  
Item number and content omitted. (False; NS 18.8%, CG 17.5%)  
Item number and content omitted. (False; NS 21.4%, CG 15.8%)  
Item number and content omitted. (False; NS 24.2%, CG 46.7%)  
Item number and content omitted. (True; NS 18.6%, CG 50.5%)

Cognitive Complaints (COG, T Score = 76)

Item number and content omitted. (True; NS 27.0%, CG 31.5%)  
Item number and content omitted. (True; NS 24.8%, CG 21.5%)  
Item number and content omitted. (True; NS 15.7%, CG 22.1%)  
Item number and content omitted. (False; NS 14.8%, CG 19.5%)

**Note**

Test items are included in the actual reports. To protect the integrity of the test, the item content does not appear in this sample report.

Item number and content omitted. (True; NS 31.1%, CG 21.9%)  
Item number and content omitted. (True; NS 23.6%, CG 19.8%)  
Item number and content omitted. (True; NS 28.3%, CG 23.8%)  
Item number and content omitted. (True; NS 26.2%, CG 20.2%)  
Item number and content omitted. (True; NS 28.6%, CG 25.7%)  
Item number and content omitted. (True; NS 51.0%, CG 46.0%)

**Note**

Test items are included in the actual reports. To protect the integrity of the test, the item content does not appear in this sample report.

Self-Doubt (SFD, T Score = 59)

Item number and content omitted. (True; NS 11.3%, CG 6.4%)  
Item number and content omitted. (True; NS 41.0%, CG 33.3%)  
Item number and content omitted. (True; NS 11.8%, CG 8.5%)  
Item number and content omitted. (True; NS 32.0%, CG 19.5%)

Stress (STR, T Score = 68)

Item number and content omitted. (False; NS 31.7%, CG 30.1%)  
Item number and content omitted. (False; NS 26.7%, CG 22.6%)  
Item number and content omitted. (True; NS 31.6%, CG 26.2%)  
Item number and content omitted. (True; NS 31.9%, CG 23.3%)  
Item number and content omitted. (False; NS 58.8%, CG 63.3%)

Anxiety-Related Experiences (ARX, T Score = 59)

Item number and content omitted. (True; NS 31.2%, CG 21.6%)  
Item number and content omitted. (True; NS 16.9%, CG 12.5%)  
Item number and content omitted. (True; NS 9.4%, CG 6.9%)  
Item number and content omitted. (True; NS 27.3%, CG 26.5%)  
Item number and content omitted. (True; NS 14.9%, CG 11.9%)  
Item number and content omitted. (True; NS 35.8%, CG 27.3%)  
Item number and content omitted. (True; NS 39.8%, CG 42.8%)

Substance Abuse (SUB, T Score = 54)

Item number and content omitted. (False; NS 31.9%, CG 10.9%)  
Item number and content omitted. (True; NS 8.1%, CG 1.4%)  
Item number and content omitted. (True; NS 14.4%, CG 1.2%)

Activation (ACT, T Score = 58)

Item number and content omitted. (True; NS 71.2%, CG 55.9%)  
Item number and content omitted. (True; NS 17.5%, CG 8.5%)  
Item number and content omitted. (True; NS 45.7%, CG 31.9%)  
Item number and content omitted. (True; NS 49.0%, CG 31.4%)  
Item number and content omitted. (True; NS 28.0%, CG 19.6%)

Psychoticism (PSYC, T Score = 63)

Item number and content omitted. (True; NS 35.7%, CG 21.9%)  
Item number and content omitted. (True; NS 18.2%, CG 11.1%)  
Item number and content omitted. (True; NS 5.4%, CG 1.1%)  
Item number and content omitted. (True; NS 15.4%, CG 7.7%)  
Item number and content omitted. (True; NS 7.0%, CG 4.0%)



## Critical Follow-up Items

*This section contains a list of items to which the patient responded in a manner warranting follow-up. The items were identified by preprocedural assessment experts as having critical content. Clinicians are encouraged to follow up on these statements with the patient by making related inquiries, rather than reciting the item(s) verbatim. Each item is followed by the patient's response, the percentage of Spinal Procedure Candidate Comparison Group members who gave this response, and the scale(s) on which the item appears.*

Item number and content omitted. (True; 6.4%; VRIN, TRIN, F, EID, RCd, SFD)  
Item number and content omitted. (True; 12.1%; AGG)  
Item number and content omitted. (True; 21.6%; VRIN, ARX, NEGE)  
Item number and content omitted. (True; 8.4%; TRIN, F, EID, RCd)  
Item number and content omitted. (True; 7.0%; Fs, FBS, RC1)  
Item number and content omitted. (False; 16.3%; RC1)  
Item number and content omitted. (True; 12.5%; TRIN, ARX, NEGE)  
Item number and content omitted. (True; 15.8%; FBS, RC7)  
Item number and content omitted. (True; 8.4%; VRIN, F, EID, RC2, INTR)  
Item number and content omitted. (True; 10.2%; TRIN, FBS, RBS, RC1)  
Item number and content omitted. (False; 8.0%; TRIN, EID, RCd)  
Item number and content omitted. (True; 10.4%; IMP)  
Item number and content omitted. (True; 10.4%; VRIN, RCd, NFC)  
Item number and content omitted. (True; 42.8%; FBS, RBS, L, BXD, RC4)  
Item number and content omitted. (True; 7.3%; VRIN, EID, RCd)  
Item number and content omitted. (False; 15.8%; Fs, NUC)  
Item number and content omitted. (True; 7.7%; FBS, RC1)  
Item number and content omitted. (False; 10.9%; BXD, SUB, DISC)  
Item number and content omitted. (True; 1.4%; BXD, RC4, SUB, DISC)  
Item number and content omitted. (True; 9.8%; VRIN, RC7, ANP)  
Item number and content omitted. (True; 1.2%; BXD, SUB, DISC)  
Item number and content omitted. (True; 7.2%; EID, RCd)

### Note

Test items are included in the actual reports. To protect the integrity of the test, the item content does not appear in this sample report.

## ENDNOTES

*This section lists for each statement in the report the MMPI-3 score(s) that triggered it. In addition, each statement is identified as a Test Response, if based on item content, a Correlate, if based on empirical correlates, or an Inference, if based on the report authors' judgment. (This information can also be accessed on-screen by placing the cursor on a given statement.) For correlate-based statements, research references (Ref. No.) are provided, keyed to the consecutively numbered reference list following the endnotes.*

- <sup>1</sup> Test Response: Fs=92
- <sup>2</sup> Correlate: Fs=92, Ref. 7, 10, 12, 13, 14, 15, 16, 25, 28, 30, 33, 34, 49, 57, 58, 59, 60, 62, 66, 67, 75, 76, 82, 86, 87, 90, 91, 96, 97
- <sup>3</sup> Correlate: Fs=92, Ref. 5, 13, 57, 83, 91
- <sup>4</sup> Test Response: RC1=72
- <sup>5</sup> Test Response: NUC=71
- <sup>6</sup> Correlate: RC1=72, Ref. 5
- <sup>7</sup> Test Response: MLS=77
- <sup>8</sup> Correlate: RC1=72, Ref. 4, 5, 9, 11, 13, 21, 22, 23, 32, 36, 52, 73, 74, 77, 83, 85, 92; MLS=77, Ref. 5, 9, 11; NUC=71, Ref. 5, 13
- <sup>9</sup> Correlate: MLS=77, Ref. 5, 40, 81
- <sup>10</sup> Correlate: RC1=72, Ref. 6, 81, 83; MLS=77, Ref. 5, 40, 52, 81
- <sup>11</sup> Correlate: MLS=77, Ref. 5
- <sup>12</sup> Correlate: RC1=72, Ref. 23, 83; NUC=71, Ref. 17, 92
- <sup>13</sup> Test Response: COG=76
- <sup>14</sup> Correlate: COG=76, Ref. 5, 11, 13, 24, 52, 92
- <sup>15</sup> Correlate: COG=76, Ref. 83
- <sup>16</sup> Correlate: RCd=65, Ref. 83; COG=76, Ref. 83
- <sup>17</sup> Correlate: COG=76, Ref. 5, 11, 13, 52, 92
- <sup>18</sup> Test Response: SUI=58
- <sup>19</sup> Correlate: SUI=58, Ref. 5, 37, 42, 54, 65
- <sup>20</sup> Correlate: SUI=58, Ref. 2, 5, 27, 29, 37, 38, 40, 52, 54, 55, 63, 65, 79, 83, 92
- <sup>21</sup> Correlate: SUI=58, Ref. 2, 5, 27, 29, 37, 38, 40, 54, 55, 65, 79, 80, 83, 92
- <sup>22</sup> Correlate: EID=66, Ref. 5, 11, 41, 64, 83
- <sup>23</sup> Test Response: RCd=65
- <sup>24</sup> Correlate: RCd=65, Ref. 1, 3, 4, 5, 8, 9, 11, 13, 18, 19, 21, 22, 23, 32, 35, 36, 40, 51, 52, 68, 70, 73, 74, 77, 78, 81, 83, 84, 88, 94, 98
- <sup>25</sup> Correlate: RCd=65, Ref. 5, 40
- <sup>26</sup> Test Response: STR=68
- <sup>27</sup> Correlate: STR=68, Ref. 4, 5, 39
- <sup>28</sup> Correlate: STR=68, Ref. 5, 11
- <sup>29</sup> Correlate: RC1=72, Ref. 44, 45, 53, 89, 92
- <sup>30</sup> Correlate: MLS=77, Ref. 44, 53, 92
- <sup>31</sup> Inference: NUC=71
- <sup>32</sup> Inference: COG=76
- <sup>33</sup> Correlate: RCd=65, Ref. 5, 31, 43, 50, 56, 69, 78, 83, 89, 92
- <sup>34</sup> Correlate: STR=68, Ref. 5
- <sup>35</sup> Inference: MLS=77
- <sup>36</sup> Inference: EID=66
- <sup>37</sup> Test Response: EID=66
- <sup>38</sup> Test Response: SFD=59
- <sup>39</sup> Inference: STR=68
- <sup>40</sup> Test Response: ARX=59
- <sup>41</sup> Test Response: THD=58
- <sup>42</sup> Inference: PSYC=63
- <sup>43</sup> Test Response: PSYC=63

- 44 Test Response: ACT=58
- 45 Test Response: SUB=54
- 46 Correlate: RCd=65, Ref. 3, 46, 71
- 47 Correlate: RCd=65, Ref. 32, 46; MLS=77, Ref. 32, 46
- 48 Correlate: RCd=65, Ref. 3, 20, 21, 46; MLS=77, Ref. 3, 20, 21, 46
- 49 Correlate: RC1=72, Ref. 26, 32, 46, 48, 95; MLS=77, Ref. 26, 32, 46, 48, 95; NUC=71, Ref. 26, 32, 46, 48, 95
- 50 Correlate: RC1=72, Ref. 32; MLS=77, Ref. 32; NUC=71, Ref. 32; COG=76, Ref. 32
- 51 Correlate: MLS=77, Ref. 3; NUC=71, Ref. 3; COG=76, Ref. 3
- 52 Correlate: RC1=72, Ref. 46, 73; NUC=71, Ref. 46, 73
- 53 Correlate: RC1=72, Ref. 46, 73; MLS=77, Ref. 46, 73; NUC=71, Ref. 46, 73
- 54 Correlate: RCd=65, Ref. 3, 46; RC1=72, Ref. 3, 46; MLS=77, Ref. 3, 46; STR=68, Ref. 3, 46
- 55 Correlate: RCd=65, Ref. 3
- 56 Correlate: EID=66, Ref. 46, 78; MLS=77, Ref. 46, 78
- 57 Correlate: RC1=72, Ref. 46, 73
- 58 Correlate: RC1=72, Ref. 3, 46
- 59 Correlate: STR=68, Ref. 46, 73
- 60 Correlate: RCd=65, Ref. 3, 46; MLS=77, Ref. 3, 46
- 61 Correlate: RC1=72, Ref. 3, 46; MLS=77, Ref. 3, 46
- 62 Correlate: MLS=77, Ref. 73
- 63 Correlate: RCd=65, Ref. 3, 46; RC1=72, Ref. 3, 46; MLS=77, Ref. 3, 46; NUC=71, Ref. 3, 46
- 64 Correlate: RCd=65, Ref. 20
- 65 Correlate: SUI=58, Ref. 32
- 66 Correlate: MLS=77, Ref. 3, 26, 73
- 67 Correlate: Fs=92, Ref. 72
- 68 Correlate: RC1=72, Ref. 32, 46
- 69 Correlate: RCd=65, Ref. 20, 21, 46, 47, 48, 53, 61, 93, 95; RC1=72, Ref. 20, 21, 46, 47, 48, 53, 61, 93, 95; MLS=77, Ref. 20, 21, 46, 47, 48, 53, 61, 93, 95; NUC=71, Ref. 20, 21, 46, 47, 48, 53, 61, 93, 95
- 70 Correlate: RCd=65, Ref. 20, 21, 46, 47, 61, 93; RC1=72, Ref. 20, 21, 46, 47, 61, 93; NUC=71, Ref. 20, 21, 46, 47, 61, 93
- 71 Correlate: RCd=65, Ref. 20, 21, 46, 47; MLS=77, Ref. 20, 21, 46, 47
- 72 Correlate: RCd=65, Ref. 20, 21, 26; MLS=77, Ref. 20, 21, 26
- 73 Correlate: EID=66, Ref. 20, 21; RCd=65, Ref. 20, 21; MLS=77, Ref. 20, 21
- 74 Correlate: RC1=72, Ref. 20, 46, 47, 48, 61, 74, 93; NUC=71, Ref. 20, 46, 47, 48, 61, 74, 93
- 75 Correlate: RCd=65, Ref. 20, 74; MLS=77, Ref. 20, 74
- 76 Correlate: RCd=65, Ref. 20, 74; RC1=72, Ref. 20, 74; MLS=77, Ref. 20, 74
- 77 Correlate: RCd=65, Ref. 20, 47, 61; RC1=72, Ref. 20, 47, 61; MLS=77, Ref. 20, 47, 61
- 78 Inference: SUI=58
- 79 Inference: RC1=72
- 80 Inference: RCd=65

## RESEARCH REFERENCE LIST

The following studies are sources for empirical correlates identified in the Endnotes section of this report.

1. Anderson, J. L., Sellbom, M., Ayearst, L., Quilty, L. C., Chmielewski, M., & Bagby, R. M. (2015). Associations between DSM-5 Section III personality traits and the Minnesota Multiphasic Personality Inventory 2-Restructured Form (MMPI-2-RF) scales in a psychiatric patient sample. *Psychological Assessment, 27*(3), 801–815. <https://doi.org/10.1037/pas0000096>
2. Anestis, J. C., Finn, J. A., Gottfried, E. D., Hames, J. L., Bodell, L. P., Hagan, C. R., Arnau, R. C., Anestis, M. D., Arbisi, P. A., & Joiner, T. E. (2018). Burdonesomeness, belongingness, and capability: Assessing the interpersonal-psychological theory of suicide with MMPI-2-RF scales. *Assessment, 25*(4), 415–431. <https://doi.org/10.1177/1073191116652227>
3. Arbisi, P. A., Sellbom, M., & Ben-Porath, Y. S. (2008). Empirical correlates of the MMPI-2 Restructured Clinical (RC) Scales in psychiatric inpatients. *Journal of Personality Assessment, 90*(2), 122–128. <https://doi.org/10.1080/00223890701845146>
4. Bagby, R. M., Onno, K. A., Mortezaei, A., & Sellbom, M. (2020). Examining the "traditional background hypothesis" for the MMPI-2–RF L-r scores in a Muslim faith–based sample. *Psychological Assessment, 32*(10), 991–995. <https://doi.org/10.1037/pas0000941>
5. Ben-Porath, Y. S., & Tellegen, A. (2020). *The Minnesota Multiphasic Personality Inventory-3 (MMPI-3): Technical manual*. University of Minnesota Press.
6. Benitez, A., & Gunstad, J. (2012). Poor sleep quality diminishes cognitive functioning independent of depression and anxiety in healthy young adults. *The Clinical Neuropsychologist, 26*(2), 214–223. <https://doi.org/10.1080/13854046.2012.658439>
7. Bianchini, K. J., Aguerrevere, L. E., Curtis, K. L., Roebuck-Spencer, T. M., Frey, F. C., Greve, K. W., & Calamia, M. (2018). Classification accuracy of the Minnesota Multiphasic Personality Inventory-2 (MMPI-2)-Restructured Form Validity Scales in detecting malingered pain-related disability. *Psychological Assessment, 30*(7), 857–869. <https://doi.org/10.1037/pas0000532>
8. Binford, A., & Liljequist, L. (2008). Behavioral correlates of selected MMPI-2 Clinical, Content, and Restructured Clinical scales. *Journal of Personality Assessment, 90*(6), 608–614. <https://doi.org/10.1080/00223890802388657>
9. Block, A. R., Ben-Porath, Y. S., & Marek, R. J. (2013). Psychological risk factors for poor outcome of spine surgery and spinal cord stimulator implant: A review of the literature and their assessment with the MMPI-2-RF. *The Clinical Neuropsychologist, 27*(1), 81–107. <https://doi.org/10.1080/13854046.2012.721007>
10. Bolinger, E., Reese, C., Suhr, J., & Larrabee, G. J. (2014). Susceptibility of the MMPI-2-RF Neurological Complaints and Cognitive Complaints scales to over-reporting in simulated head injury. *Archives of Clinical Neuropsychology, 29*(1), 7–15. <https://doi.org/10.1093/arclin/act082>
11. Brown, T. A., & Sellbom, M. (2023). Associations between MMPI-3 scale scores and the DSM-5 AMPD and ICD-11 dimensional personality traits. *Assessment, 30*(4), 943–958. <https://doi.org/10.1177/10731911221075724>
12. Burchett, D., & Bagby, R. M. (2022). Assessing negative response bias: A review of the noncredible overreporting scales of the MMPI-2-RF and MMPI-3. *Psychological Injury and Law, 15*(1), 22–36. <https://doi.org/10.1007/s12207-021-09435-9>
13. Burchett, D. L., & Ben-Porath, Y. S. (2010). The impact of overreporting on MMPI-2-RF substantive scale score validity. *Assessment, 17*(4), 497–516. <https://doi.org/10.1177/1073191110378972>

14. Chmielewski, M., Bagby, R. M., Markon, K., Ring, A. J., & Ryder, A. G. (2014). Openness to experience, intellect, schizotypal personality disorder, and psychoticism: Resolving the controversy. *Journal of Personality Disorders, 28*(4), 483–499. [https://doi.org/10.1521/pedi\\_2014\\_28\\_128](https://doi.org/10.1521/pedi_2014_28_128)
15. Chmielewski, M., Zhu, J., Burchett, D., Bury, A. S., & Bagby, R. M. (2017). The comparative capacity of the Minnesota Multiphasic Personality Inventory-2 (MMPI-2) and MMPI-2 Restructured Form (MMPI-2-RF) Validity Scales to detect suspected malingering in a disability claimant sample. *Psychological Assessment, 29*(2), 199–208. <https://doi.org/10.1037/pas0000328>
16. Crighton, A. H., Tarescavage, A. M., Gervais, R. O., & Ben-Porath, Y. S. (2017). The generalizability of overreporting across self-report measures: An investigation with the Minnesota Multiphasic Personality Inventory-2-Restructured Form and the Personality Assessment Inventory in a civil disability sample. *Assessment, 24*(5), 555–574. <https://doi.org/10.1177/1073191115621791>
17. Duncan, C. J., Roberts, N. A., Kirlin, K. A., Parkhurst, D., Bureson, M. H., Drazkowski, J. F., Sirven, J. I., Noe, K. H., Crepeau, A. Z., Hoerth, M. T., & Locke, D. E. C. (2018). Diagnostic utility of the Minnesota Multiphasic Personality Inventory-2 Restructured Form in the epilepsy monitoring unit: Considering sex differences. *Epilepsy & Behavior, 88*, 117–122. <https://doi.org/10.1016/j.yebeh.2018.08.033>
18. Erbes, C. R., Polusny, M. A., Arbisi, P. A., & Koffel, E. (2012). PTSD symptoms in a cohort of National Guard Soldiers deployed to Iraq: Evidence for nonspecific and specific components. *Journal of Affective Disorders, 142*(1–3), 269–274. <https://doi.org/10.1016/j.jad.2012.05.013>
19. Finn, J. A., Ben-Porath, Y. S., & Tellegen, A. (2015). Dichotomous versus polytomous response options in psychopathology assessment: Method or meaningful variance? *Psychological Assessment, 27*(1), 184–193. <https://doi.org/10.1037/pas0000044>
20. Forbey, J. D., & Ben-Porath, Y. S. (2007). A comparison of the MMPI-2 Restructured Clinical (RC) and Clinical Scales in a substance abuse treatment sample. *Psychological Services, 4*(1), 46–58. <https://doi.org/10.1037/1541-1559.4.1.46>
21. Forbey, J. D., & Ben-Porath, Y. S. (2008). Empirical correlates of the MMPI-2 Restructured Clinical (RC) Scales in a nonclinical setting. *Journal of Personality Assessment, 90*(2), 136–141. <https://doi.org/10.1080/00223890701845161>
22. Forbey, J. D., Ben-Porath, Y. S., & Arbisi, P. A. (2012). The MMPI-2 computer adaptive version (MMPI-2-CA) in a Veterans Administration medical outpatient facility. *Psychological Assessment, 24*(3), 628–639. <https://doi.org/10.1037/a0026509>
23. Forbey, J. D., Ben-Porath, Y. S., & Gartland, D. (2009). Validation of the MMPI-2 Computerized Adaptive version (MMPI-2-CA) in a correctional intake facility. *Psychological Services, 6*(4), 279–292. <https://doi.org/10.1037/a0016195>
24. Gervais, R. O., Ben-Porath, Y. S., & Wygant, D. B. (2009). Empirical correlates and interpretation of the MMPI-2-RF Cognitive Complaints (COG) scale. *The Clinical Neuropsychologist, 23*(6), 996–1015. <https://doi.org/10.1080/13854040902748249>
25. Gervais, R. O., Ben-Porath, Y. S., Wygant, D. B., & Sellbom, M. (2010). Incremental validity of the MMPI-2-RF over-reporting scales and RBS in assessing the veracity of memory complaints. *Archives of Clinical Neuropsychology, 25*(4), 274–284. <https://doi.org/10.1093/arclin/acq018>
26. Giblin, M. J., Cordaro, M., Haskard-Zolnieriek, K., Jordan, K., Bitney, C., & Howard, K. (2022). Identifying the risk of opioid misuse in a chronic pain population: The utility of the MMPI-2-RF Personality Psychopathology Five (PSY-5-RF) and higher-order scales. *Journal of Behavioral Medicine, 45*(5), 739–749. <https://doi.org/10.1007/s10865-022-00347-w>

27. Glassmire, D. M., Tarescavage, A. M., Burchett, D., Martinez, J., & Gomez, A. (2016). Clinical utility of the MMPI-2-RF SUI items and scale in a forensic inpatient setting: Association with interview self-report and future suicidal behaviors. *Psychological Assessment, 28*(11), 1502–1509. <https://doi.org/10.1037/pas0000220>
28. Goodwin, B. E., Sellbom, M., & Arbisi, P. A. (2013). Posttraumatic stress disorder in veterans: The utility of the MMPI-2-RF validity scales in detecting overreported symptoms. *Psychological Assessment, 25*(3), 671–678. <https://doi.org/10.1037/a0032214>
29. Gottfried, E., Bodell, L., Carbonell, J., & Joiner, T. (2014). The clinical utility of the MMPI-2-RF Suicidal/Death Ideation Scale. *Psychological Assessment, 26*(4), 1205–1211. <https://doi.org/10.1037/pas0000017>
30. Greiffenstein, M., Gervais, R., Baker, W. J., Artiola, L., & Smith, H. (2013). Symptom validity testing in medically unexplained pain: A chronic regional pain syndrome type 1 case series. *The Clinical Neuropsychologist, 27*(1), 138–147. <https://doi.org/10.1080/13854046.2012.722686>
31. Haber, J. C., & Baum, L. J. (2014). Minnesota Multiphasic Personality Inventory-2 Restructured Form (MMPI-2-RF) Scales as predictors of psychiatric diagnoses. *South African Journal of Psychology, 44*(4), 439–453. <https://doi.org/10.1177/0081246314532788>
32. Handel, R. W., & Archer, R. P. (2008). An investigation of the psychometric properties of the MMPI-2 Restructured Clinical (RC) Scales with mental health inpatients. *Journal of Personality Assessment, 90*(3), 239–249. <https://doi.org/10.1080/00223890701884954>
33. Jones, A. (2016). Cutoff scores for MMPI-2 and MMPI-2-RF cognitive-somatic validity scales for psychometrically defined malingering groups in a military sample. *Archives of Clinical Neuropsychology, 31*(7), 786–801. <https://doi.org/10.1093/arclin/acw035>
34. Jones, A., Ingram, M. V., & Ben-Porath, Y. S. (2012). Scores on the MMPI-2-RF scales as a function of increasing levels of failure on cognitive symptom validity tests in a military sample. *The Clinical Neuropsychologist, 26*(5), 790–815. <https://doi.org/10.1080/13854046.2012.693202>
35. Kamphuis, J. H., Arbisi, P. A., Ben-Porath, Y. S., & McNulty, J. L. (2008). Detecting comorbid Axis-II status among inpatients using the MMPI-2 Restructured Clinical Scales. *European Journal of Psychological Assessment, 24*(3), 157–164. <https://doi.org/10.1027/1015-5759.24.3.157>
36. Kaye, S., Wygant, D. B., Umlauf, R. L., & Marek, R. J. (2022). Factor structure and validity of the Inventory of Depression and Anxiety Symptoms-II (IDAS-II) in a chronic back pain treatment-seeking sample. *Psychological Assessment, 34*(1), 3–9. <https://doi.org/10.1037/pas0001057>
37. Khazem, L. R., Anestis, J. C., Erbes, C. R., Ferrier-Auerbach, A. G., Schumacher, M. M., & Arbisi, P. A. (2021). Assessing the clinical utility of the MMPI-2-RF in detecting suicidal ideation in a high acuity, partially-hospitalized veteran sample. *Journal of Personality Assessment, 103*(1), 10–18. <https://doi.org/10.1080/00223891.2020.1739057>
38. Kim, S., Lee, H.-K., & Lee, K. (2020). Assessment of suicidal risk using Minnesota Multiphasic Personality Inventory-2 Restructured Form. *BMC Psychiatry, 20*, Article 81. <https://doi.org/10.1186/s12888-020-02495-2>
39. Kremyar, A. J., & Lee, T. T. C. (2022). MMPI-3 predictors of anxiety sensitivity and distress intolerance. *Assessment, 29*(6), 1103–1116. <https://doi.org/10.1177/10731911211001948>
40. Kremyar, A. J., & Wygant, D. B. (2023). Measuring internalizing psychopathology using the MMPI-3: An examination of convergent, discriminant, and incremental validity. *Journal of Psychopathology and Behavioral Assessment, 45*(3), 671–690. <https://doi.org/10.1007/s10862-023-10048-6>

41. Lanyon, R. I., & Thomas, M. L. (2013). Assessment of global psychiatric categories: The PSI/PSI-2 and the MMPI-2-RF. *Psychological Assessment, 25*(1), 227–232. <https://doi.org/10.1037/a0030313>
42. Laurinaityte, I., Laurinavicius, A., Ustinaviciute, L., Wygant, D. B., Sellbom, M. (2017). Utility of the MMPI-2 Restructured Form (MMPI-2-RF) in a sample of Lithuanian male offenders. *Law and Human Behavior, 41*(5), 494–505. <https://doi.org/10.1037/lhb0000254>
43. Lee, T. T. C., Graham, J. R., & Arbisi, P. A. (2018). The utility of MMPI-2-RF scale scores in the differential diagnosis of schizophrenia and major depressive disorder. *Journal of Personality Assessment, 100*(3), 305–312. <https://doi.org/10.1080/00223891.2017.1300906>
44. Locke, D. E. C., Kirlin, K. A., Thomas, M. L., Osborne, D., Hurst, D. F., Drazkowski, J. F., Sirven, J. I., & Noe, K. H. (2010). The Minnesota Multiphasic Personality Inventory-2-Restructured Form in the epilepsy monitoring unit. *Epilepsy & Behavior, 17*(2), 252–258. <https://doi.org/10.1016/j.yebeh.2009.12.004>
45. Locke, D. E. C., Kirlin, K. A., Wershba, R., Osborne, D., Drazkowski, J. F., Sirven, J. I., & Noe, K. H. (2011). Randomized comparison of the Personality Assessment Inventory and the Minnesota Multiphasic Personality Inventory-2 in the epilepsy monitoring unit. *Epilepsy & Behavior, 21*(4), 397–401. <https://doi.org/10.1016/j.yebeh.2011.05.023>
46. Marek, R. J., Block, A. R., & Ben-Porath, Y. S. (2022). Reliability and validity of the Minnesota Multiphasic Personality Inventory-3 (MMPI-3) scale scores among patients seeking spine surgery. *Psychological Assessment, 34*(4), 379–389. <https://doi.org/10.1037/pas0001096>
47. Marek, R. J., Le, J. T., Hapenciuc, G., Philip, M. A., Chiu, J., Block, A. R., & Ben-Porath, Y. S. (2023). Incremental contribution of the Minnesota Multiphasic Personality Inventory-3 to predicting one-year postoperative spinal cord surgery/spinal cord stimulation outcomes. *Journal of Clinical Psychology in Medical Settings, 31*(1), 77–90. <https://doi.org/10.1007/s10880-023-09971-3>
48. Marek, R. J., Lieberman, I., Derman, P., Nghiem, D. M., & Block, A. R. (2021). Validity of a pre-surgical algorithm to predict pain, functional disability, and emotional functioning 1 year after spine surgery. *Psychological Assessment, 33*(6), 541–551. <https://doi.org/10.1037/pas0001008>
49. Mason, L. H., Shandera-Ochsner, A. L., Williamson, K. D., Harp, J. P., Edmundson, M., Berry, D. T. R., & High, W. M., Jr. (2013). Accuracy of MMPI-2-RF Validity Scales for identifying feigned PTSD symptoms, random responding, and genuine PTSD. *Journal of Personality Assessment, 95*(6), 585–593. <https://doi.org/10.1080/00223891.2013.819512>
50. McCord, D. M., & Drerup, L. C. (2011). Relative practical utility of the Minnesota Multiphasic Personality Inventory–2 Restructured Clinical Scales versus the Clinical Scales in a chronic pain patient sample. *Journal of Clinical and Experimental Neuropsychology, 33*(1), 140–146. <https://doi.org/10.1080/13803395.2010.495056>
51. McDevitt-Murphy, M. E., Weathers, F. W., Flood, A. M., Eakin, D. E., & Benson, T. A. (2007). The utility of the PAI and the MMPI-2 for discriminating PTSD, depression, and social phobia in trauma-exposed college students. *Assessment, 14*(2), 181–195. <https://doi.org/10.1177/1073191106295914>
52. Menton, W. H., Crighton, A. H., Tarescavage, A. M., Marek, R. J., Hicks, A. D., & Ben-Porath, Y. S. (2019). Equivalence of laptop and tablet administrations of the Minnesota Multiphasic Personality Inventory-2 Restructured Form. *Assessment, 26*(4), 661–669. <https://doi.org/10.1177/1073191117714558>
53. Mickens, L. D., Nghiem, D. M., Wygant, D. B., Umlauf, R. L., & Marek, R. J. (2021). Validity of the Somatic Complaints scales of the MMPI-2-RF in an outpatient chronic pain clinic. *Journal of Clinical Psychology in Medical Settings, 28*(4), 789–797. <https://doi.org/10.1007/s10880-021-09766-4>

54. Miller, S. N., Bozzay, M. L., Ben-Porath, Y. S., & Arbisi, P. A. (2019). Distinguishing levels of suicide risk in depressed male veterans: The role of internalizing and externalizing psychopathology as measured by the MMPI-2-RF. *Assessment, 26*(1), 85–98. <https://doi.org/10.1177/1073191117743787>
55. Morris, C. S., Keen, M. A., White, C., Ingram, P. B., Mitchell, S. M., & Victor, S. E. (2024). Determining the MMPI-3 SUI scale's cross-sectional and prospective utility in suicide risk assessment. *Journal of Clinical Psychology, 80*(6), 1243–1258. <https://doi.org/10.1002/jclp.23664>
56. Morris, C. S., Ingram, P. B., Mitchell, S. M., & Victor, S. E. (2023). Screening utility of the PHQ-2 and PHQ-9 for depression in college students: Relationships with substantive scales of the MMPI-3. *Measurement and Evaluation in Counseling and Development, 56*(3), 254–264. <https://doi.org/10.1080/07481756.2022.2110899>
57. Morris, N. M., Mattera, J., Golden, B., Moses, S., & Ingram, P. B. (2022). Evaluating the performance of the MMPI-3 over-reporting scales: Sophisticated simulators and the effects of comorbid conditions. *The Clinical Neuropsychologist, 36*(8), 2361–2369. <https://doi.org/10.1080/13854046.2021.1968037>
58. Nguyen, C. T., Green, D., & Barr, W. B. (2015). Evaluation of the MMPI-2-RF for detecting over-reported symptoms in a civil forensic and disability setting. *The Clinical Neuropsychologist, 29*(2), 255–271. <https://doi.org/10.1080/13854046.2015.1033020>
59. Olsen, A. M., & Veltri, C. O. C. (2019). The moderating influence of disorder on coached overreporting using the MMPI-2-RF. *Journal of Personality Assessment, 101*(3), 264–273. <https://doi.org/10.1080/00223891.2018.1472099>
60. Patrick, R. E., & Horner, M. D. (2014). Psychological characteristics of individuals who put forth inadequate cognitive effort in a secondary gain context. *Archives of Clinical Neuropsychology, 29*(8), 754–766. <https://doi.org/10.1093/arclin/acu054>
61. Rabinowitz, E. P., Whitman, M. R., Marek, R. J., Block, A. R., & Ben-Porath, Y. S. (2024). Differences in presurgical MMPI-3 scores across trajectories of recovery from spine surgery. *Psychological Assessment, 36*(4), 262–274. <https://doi.org/10.1037/pas0001299>
62. Reeves, C. K., Brown, T. A., & Sellbom, M. (2022). An examination of the MMPI-3 Validity Scales in detecting overreporting of psychological problems. *Psychological Assessment, 34*(6), 517–527. <https://doi.org/10.1037/pas0001112>
63. Rogers, M. L., Anestis, J. C., Harrop, T. M., Schneider, M., Bender, T. W., Ringer, F. B., & Joiner, T. E. (2017). Examination of MMPI-2-RF substantive scales as indicators of acute suicidal affective disturbance components. *Journal of Personality Assessment, 99*(4), 424–434. <https://doi.org/10.1080/00223891.2016.1222393>
64. Romero, I. E., Toorabally, N., Burchett, D., Tarescavage, A. M., & Glassmire, D. M. (2017). Mapping the MMPI-2-RF substantive scales onto internalizing, externalizing, and thought dysfunction dimensions in a forensic inpatient setting. *Journal of Personality Assessment, 99*(4), 351–362. <https://doi.org/10.1080/00223891.2016.1223681>
65. Rufino, K. A., Daruwala, S. E., & Anestis, J. C. (2021). Predicting suicide attempt history in a psychiatric inpatient sample: A replication and extension. *Psychological Assessment, 33*(7), 685–690. <https://doi.org/10.1037/pas0001026>
66. Sánchez Crespo, G., Ampudia Rueda, A., Jiménez Gómez, F., & Amado, B. G. (2017). Contrasting the efficacy of the MMPI-2-RF overreporting scales in the detection of malingering. *The European Journal of Psychology Applied to Legal Context, 9*(2), 51–56. <https://doi.org/10.1016/j.ejpal.2017.03.002>



67. Schroeder, R. W., Baade, L. E., Peck, C. P., VonDran, E. J., Brockman, C. J., Webster, B. K., & Heinrichs, R. J. (2012). Validation of MMPI-2-RF Validity Scales in criterion group neuropsychological samples. *The Clinical Neuropsychologist*, *26*(1), 129–146. <https://doi.org/10.1080/13854046.2011.639314>
68. Sellbom, M., Anderson, J. L., & Bagby, R. M. (2013). Assessing DSM-5 Section III personality traits and disorders with the MMPI-2-RF. *Assessment*, *20*(6), 709–722. <https://doi.org/10.1177/1073191113508808>
69. Sellbom, M., Bagby, R. M., Kushner, S., Quilty, L. C., & Ayearst, L. E. (2011). Diagnostic construct validity of the MMPI-2 Restructured Form (MMPI-2-RF) scale scores. *Assessment*, *19*(2), 176–186. <https://doi.org/10.1177/1073191111428763>
70. Sellbom, M., Ben-Porath, Y. S., & Bagby, R. M. (2008). On the hierarchical structure of mood and anxiety disorders: Confirmatory evidence and elaboration of a model of temperament markers. *Journal of Abnormal Psychology*, *117*(3), 576–590. <https://doi.org/10.1037/a0012536>
71. Sellbom, M., Ben-Porath, Y. S., & Bagby, R. M. (2008). Personality and psychopathology: Mapping the MMPI-2 Restructured Clinical (RC) Scales onto the five factor model of personality. *Journal of Personality Disorders*, *22*(3), 291–312. <https://doi.org/10.1521/pepi.2008.22.3.291>
72. Sellbom, M., Ben-Porath, Y. S., Baum, L. J., Erez, E., & Gregory, C. (2008). Predictive validity of the MMPI-2 Restructured Clinical (RC) Scales in a batterers' intervention program. *Journal of Personality Assessment*, *90*(2), 129–135. <https://doi.org/10.1080/00223890701845153>
73. Sellbom, M., Ben-Porath, Y. S., & Graham, J. R. (2006). Correlates of the MMPI-2 Restructured Clinical (RC) Scales in a college counseling setting. *Journal of Personality Assessment*, *86*(1), 88–99. [https://doi.org/10.1207/s15327752jpa8601\\_10](https://doi.org/10.1207/s15327752jpa8601_10)
74. Sellbom, M., Graham, J. R., & Schenk, P. W. (2006). Incremental validity of the MMPI-2 Restructured Clinical (RC) Scales in a private practice sample. *Journal of Personality Assessment*, *86*(2), 196–205. [https://doi.org/10.1207/s15327752jpa8602\\_09](https://doi.org/10.1207/s15327752jpa8602_09)
75. Sellbom, M., Toomey, J. A., Wygant, D. B., Kucharski, L. T., & Duncan, S. (2010). Utility of the MMPI-2-RF (Restructured Form) validity scales in detecting malingering in a criminal forensic setting: A known-groups design. *Psychological Assessment*, *22*(1), 22–31. <https://doi.org/10.1037/a0018222>
76. Sellbom, M., Wygant, D. B., & Bagby, M. (2012). Utility of the MMPI-2-RF in detecting non-credible somatic complaints. *Psychiatry Research*, *197*(3), 295–301. <https://doi.org/10.1016/j.psychres.2011.12.043>
77. Shkalim, E. (2015). Psychometric evaluation of the MMPI-2/MMPI-2-RF Restructured Clinical Scales in an Israeli sample. *Assessment*, *22*(5), 607–618. <https://doi.org/10.1177/1073191114555884>
78. Simms, L. J., Casillas, A., Clark, L. A., Watson, D., & Doebbeling, B. N. (2005). Psychometric evaluation of the Restructured Clinical Scales of the MMPI-2. *Psychological Assessment*, *17*(3), 345–358. <https://doi.org/10.1037/1040-3590.17.3.345>
79. Stanley, I. H., Yancey, J. R., Patrick, C. J., & Joiner, T. E. (2018). A distinct configuration of MMPI-2-RF scales RCd and RC9/ACT is associated with suicide attempt risk among suicide ideators in a psychiatric outpatient sample. *Psychological Assessment*, *30*(9), 1249–1254. <https://doi.org/10.1037/pas0000588>
80. Tarescavage, A. M., Glassmire, D. M., & Burchett, D. (2018). Minnesota Multiphasic Personality Inventory-2-Restructured Form markers of future suicidal behavior in a forensic psychiatric hospital. *Psychological Assessment*, *30*(2), 170–178. <https://doi.org/10.1037/pas0000463>
81. Tarescavage, A. M., Scheman, J., & Ben-Porath, Y. S. (2015). Reliability and validity of the Minnesota Multiphasic Personality Inventory-2-Restructured Form (MMPI-2-RF) in evaluations of chronic low back pain patients. *Psychological Assessment*, *27*(2), 433–446. <https://doi.org/10.1037/pas0000056>

82. Tarescavage, A. M., Wygant, D. B., Gervais, R. O., & Ben-Porath, Y. S. (2013). Association between the MMPI-2 Restructured Form (MMPI-2-RF) and malingered neurocognitive dysfunction among non-head injury disability claimants. *The Clinical Neuropsychologist, 27*(2), 313–335. <https://doi.org/10.1080/13854046.2012.744099>
83. Tellegen, A., & Ben-Porath, Y. S. (2008/2011). *Minnesota Multiphasic Personality Inventory-2-Restructured Form (MMPI-2-RF): Technical manual*. University of Minnesota Press.
84. Tellegen, A., Ben-Porath, Y. S., Sellbom, M., Arbisi, P. A., McNulty, J. L., & Graham, J. R. (2006). Further evidence on the validity of the MMPI-2 Restructured Clinical (RC) Scales: Addressing questions raised by Rogers, Sewell, Harrison, and Jordan and Nichols. *Journal of Personality Assessment, 87*(2), 148–171. [https://doi.org/10.1207/s15327752jpa8702\\_04](https://doi.org/10.1207/s15327752jpa8702_04)
85. Thomas, M. L., & Locke, D. E. C. (2010). Psychometric properties of the MMPI-2-RF Somatic Complaints (RC1) Scale. *Psychological Assessment, 22*(3), 492–503. <https://doi.org/10.1037/a0019229>
86. Tylicki, J. L., Gervais, R. O., & Ben-Porath, Y. S. (2022). Examination of the MMPI-3 over-reporting scales in a forensic disability sample. *The Clinical Neuropsychologist, 36*(7), 1878–1901. <https://doi.org/10.1080/13854046.2020.1856414>
87. Tylicki, J. L., Rai, J. K., Arends, P., Gervais, R. O., & Ben-Porath, Y. S. (2021). A comparison of the MMPI-2-RF and PAI overreporting indicators in a civil forensic sample with emphasis on the Response Bias Scale (RBS) and the Cognitive Bias Scale (CBS). *Psychological Assessment, 33*(1), 71–83. <https://doi.org/10.1037/pas0000968>
88. Vachon, D. D., Sellbom, M., Ryder, A. G., Miller, J. D., & Bagby, R. M. (2009). A five-factor model description of depressive personality disorder. *Journal of Personality Disorders, 23*(5), 447–465. <https://doi.org/10.1521/pedi.2009.23.5.447>
89. Van der Heijden, P. T., Egger, J. I. M., Rossi, G. M. P., Grundel, G., & Derksen, J. J. L. (2013). The MMPI-2-Restructured Form and the standard MMPI-2 Clinical Scales in relation to DSM-IV. *European Journal of Psychological Assessment, 29*(3), 182–188. <https://doi.org/10.1027/1015-5759/a000140>
90. Wall, T. D., Wygant, D. B., & Gallagher, R. W. (2015). Identifying overreporting in a correctional setting: Utility of the MMPI-2 Restructured Form Validity Scales. *Criminal Justice and Behavior, 42*(6), 610–622. <https://doi.org/10.1177/0093854814556881>
91. Whitman, M. R., Tylicki, J. L., & Ben-Porath, Y. S. (2021). Utility of the MMPI-3 Validity Scales for detecting overreporting and underreporting and their effects on substantive scale validity: A simulation study. *Psychological Assessment, 33*(5), 411–426. <https://doi.org/10.1037/pas0000988>
92. Whitman, M. R., Tylicki, J. L., Mascioli, R., Pickle, J., & Ben-Porath, Y. S. (2021). Psychometric properties of the Minnesota Multiphasic Personality Inventory-3 (MMPI-3) in a clinical neuropsychology setting. *Psychological Assessment, 33*(2), 142–155. <https://doi.org/10.1037/pas0000969>
93. Wolf, E. J., Higgins, D. M., Zhao, X., Hawn, S. E., Sanborn, V., Todd, C. A., Fein-Schaffer, D., Houranieh, A., & Miller, M. W. (2024). MMPI-2-RF profiles of treatment-seeking veterans in a VA pain clinic and associations with markers of physical performance. *Journal of Clinical Psychology in Medical Settings, 31*, 58–76. <https://doi.org/10.1007/s10880-023-09967-z>
94. Wolf, E. J., Miller, M. W., Orazem, R. J., Weierich, M. R., Castillo, D. T., Milford, J., Kaloupek, D. G., & Keane, T. M. (2008). The MMPI-2 Restructured Clinical Scales in the assessment of posttraumatic stress disorder and comorbid disorders. *Psychological Assessment, 20*(4), 327–340. <https://doi.org/10.1037/a0012948>

95. Woodling, C., Wygant, D. B., Umlauf, R. L., & Marek, R. J. (2022). Somatoform's placement and validity in the hierarchical taxonomy of psychopathology (HiTOP). *Psychiatry Research*, 313, Article 114593. <https://doi.org/10.1016/j.psychres.2022.114593>
96. Wygant, D. B., Arbisi, P. A., Bianchini, K. J., & Umlauf, R. L. (2017). Waddell non-organic signs: New evidence suggests somatic amplification among outpatient chronic pain patients. *The Spine Journal*, 17(4), 505–510. <https://doi.org/10.1016/j.spinee.2016.10.018>
97. Wygant, D. B., Ben-Porath, Y. S., Arbisi, P. A., Berry, D. T. R., Freeman, D. B., & Heilbronner, R. L. (2009). Examination of the MMPI-2 Restructured Form (MMPI-2-RF) validity scales in civil forensic settings: Findings from simulation and known group samples. *Archives of Clinical Neuropsychology*, 24(7), 671–680. <https://doi.org/10.1093/arclin/acp073>
98. Wygant, D. B., Boutacoff, L. I., Arbisi, P. A., Ben-Porath, Y. S., Kelly, P. H., & Rupp, W. M. (2007). Examination of the MMPI-2 Restructured Clinical (RC) Scales in a sample of bariatric surgery candidates. *Journal of Clinical Psychology in Medical Settings*, 14(3), 197–205. <https://doi.org/10.1007/s10880-007-9073-8>

**End of Report**

## ITEM RESPONSES

1. 2	2. 2	3. 2	4. 1	5. 2	6. 1	7. 1	8. 2	9. 1	10. 2
11. 1	12. 1	13. 2	14. 1	15. 2	16. 1	17. 1	18. 1	19. 1	20. 1
21. 2	22. 1	23. 1	24. 2	25. 1	26. 1	27. 1	28. 2	29. 1	30. 1
31. 1	32. 1	33. 2	34. 2	35. 1	36. 2	37. 2	38. 1	39. 2	40. 1
41. 2	42. 1	43. 1	44. 1	45. 1	46. 2	47. 1	48. 2	49. 2	50. 2
51. 2	52. 2	53. 1	54. 2	55. 1	56. 1	57. 1	58. 2	59. 2	60. 1
61. 1	62. 1	63. 2	64. 2	65. 2	66. 2	67. 2	68. 2	69. 2	70. 2
71. 2	72. 1	73. 2	74. 1	75. 1	76. 2	77. 1	78. 1	79. 2	80. 1
81. 1	82. 1	83. 1	84. 2	85. 1	86. 2	87. 2	88. 2	89. 1	90. 2
91. 1	92. 2	93. 2	94. 2	95. 1	96. 2	97. 2	98. 2	99. 1	100. 2
101. 1	102. 1	103. 2	104. 2	105. 2	106. 1	107. 2	108. 1	109. 2	110. 2
111. 1	112. 2	113. 2	114. 1	115. 2	116. 1	117. 2	118. 2	119. 2	120. 2
121. 2	122. 2	123. 2	124. 2	125. 2	126. 2	127. 1	128. 1	129. 2	130. 2
131. 2	132. 1	133. 2	134. 2	135. 2	136. 1	137. 2	138. 1	139. 2	140. 2
141. 2	142. 2	143. 1	144. 2	145. 2	146. 2	147. 2	148. 2	149. 2	150. 2
151. 2	152. 1	153. 1	154. 2	155. 1	156. 1	157. 1	158. 2	159. 2	160. 2
161. 2	162. 1	163. 2	164. 2	165. 2	166. 2	167. 1	168. 2	169. 2	170. 1
171. 1	172. 1	173. 1	174. 2	175. 2	176. 2	177. 2	178. 2	179. 2	180. 1
181. 2	182. 2	183. 1	184. 1	185. 2	186. 2	187. 1	188. 1	189. 1	190. 1
191. 1	192. 2	193. 2	194. 2	195. 1	196. 2	197. 1	198. 1	199. 1	200. 1
201. 1	202. 2	203. 1	204. 1	205. 2	206. 2	207. 1	208. 2	209. 2	210. 1
211. 1	212. 1	213. 1	214. 2	215. 1	216. 1	217. 2	218. 2	219. 1	220. 1
221. 1	222. 1	223. 2	224. 2	225. 1	226. 2	227. 2	228. 2	229. 2	230. 1
231. 2	232. 1	233. 2	234. 2	235. 2	236. 2	237. 2	238. 1	239. 1	240. 2
241. 2	242. 2	243. 1	244. 1	245. 2	246. 1	247. 1	248. 2	249. 2	250. 1
251. 2	252. 1	253. 2	254. 2	255. 2	256. 1	257. 2	258. 2	259. 1	260. 2
261. 2	262. 2	263. 1	264. 2	265. 2	266. 1	267. 2	268. 2	269. 1	270. 2
271. 1	272. 2	273. 2	274. 1	275. 2	276. 2	277. 2	278. 1	279. 1	280. 2
281. 1	282. 1	283. 1	284. 1	285. 1	286. 1	287. 1	288. 1	289. 2	290. 2
291. 2	292. 1	293. 2	294. 1	295. 1	296. 2	297. 2	298. 1	299. 2	300. 2
301. 1	302. 1	303. 2	304. 1	305. 2	306. 1	307. 1	308. 1	309. 1	310. 2
311. 2	312. 2	313. 1	314. 2	315. 2	316. 1	317. 2	318. 1	319. 1	320. 2
321. 2	322. 1	323. 1	324. 2	325. 1	326. 1	327. 1	328. 2	329. 2	330. 2
331. 1	332. 2	333. 2	334. 2	335. 1					