INTRODUCING THE MMPI-3

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Pearson Clinical Assessment

MAPI 5

Agenda

- MMPI-3 Development
- □ The MMPI-3
 - Scales
 - Norms
 - Manuals and User's Guides

MMPI-3 Development

- A series of studies to explore ideas and questions for MMPI-3 development
- Response Format (n=406):
 - Dichotomous (T/F) versus Polytomous
 - Definitely True
 - Mostly True
 - Mostly False
 - Definitely False
 - Polytomous response format:
 - Small increases in reliability estimates
 - No improvement in scale score validities
 - Likely reflecting increased systematic error
 - Conclusion: Retain T/F response format for MMPI-3

- □ <u>Item Improvement</u> (n=552)
 - Content clarification, simplification
 - □ 338 MMPI-2-RF items reviewed for
 - Awkward/dated wording
 - Potential simplification

I love to go to dances dancing.

I am apt to take likely to feel disappointments so keenly strongly that I can't put them out of my mind.

- 53 items reworded
- Following item analyses 43 revisions retained
- Empirical correlates unaffected

- Item Development
 - Objective: Identify content missing from, or insufficiently represented by, the MMPI-2-RF item pool
 - Method:
 - Consultation with 12 MMPI-2-RF experts
 - Review of existing measures
 - Development of 135 Trial Items

- □ Item Development Study (N=519)
 - Internal item analyses and correlations with external criteria
 - 90 of 135 trial items retained
 - 5 replacement trial items developed
- Outcome: 95 trial items, candidates for inclusion on MMPI-3

Development Plan

- MMPI-2-RF-EX
 - Brief Biographical Questionnaire
 - 338 MMPI-2-RF items (43 updated)
 - 95 Trial Items
 - Booklet and answer sheet
- Q Local EX
- All new material translated into Spanish
 - □ Garcia/Azan MMPI-2/RF translation starting point
 - Rewritten and Trial items translated by Dr. Antonio E. Puente and Team at UNC-Wilmington

Development Plan

- Data Collection:
 - Field Data
 - Sites represent settings in which MMPI is used
 - Mental health, medical, forensic, public safety
 - Used for:
 - Scale Development
 - Validation
 - Comparison Groups
 - College Studies
 - Initial psychometric analyses
 - Detailed Validation Analyses
 - Normative Data
 - English
 - Spanish
 - Bilingual

Development: Data Collection

Field Data Collection (ongoing)

Public Safety	9,221
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■ Mental Health 1,837

■ Medical 1,770

■ Forensic/Corrections 1,040

Disability

□ Community 376

■ Total (to date) 14,855

College Studies (ongoing) 8,000

Development: Data Collection

Normative

- English 2,382
- □ English re-test 280
- □ Spanish 664
- Spanish re-test 60
- Bilingual 45
- □ Total 3,423

□ Overall Total (to date) 26,278

Development: Scales

- Scale Development Process
 - Using Field Data
 - RC Scales shortened
 - Some SP Scales lengthened and expanded
 - H-O and PSY-5 Scales revised to address deleted items and incorporate new ones
 - Validity Scales updated
 - Using Spanish Normative and Bilingual Samples
 - All rewritten and new items selected for MMPI-3 examined
 - One item dropped

Development: Scales

- Scale Development Outcome
 - New Scales:
 - Combined Response Inconsistency (CRIN)
 - Eating Concerns (EAT)
 - Compulsivity (CMP)
 - Impulsivity (IMP)
 - Self-Importance (SFI)
 - Substantially Modified
 - Anxiety (AXY) → Anxiety-Related Experiences (ARX)
 - Stress/Worry (STW)→ Stress (STR) Worry (WRY)
 - Interpersonal Passivity (IPP)→ Dominance(DOM)
 - Dropped Scales:
 - Gastrointestinal Complaints (GIC), Head Pain Complaints (HPC)
 - Multiple Specific Fears (MSF)
 - Aesthetic/Literary Interests (AES)
 - Mechanical/Physical Interests (MEC)

MMPI-3 (2020)

- 52 Scales
 - 10 Validity Scales
 - 3 Higher-Order Scales
 - 8 RC Scales
 - 26 Specific Problems Scales
 - 4 Somatic/Cognitive
 - 10 Internalizing
 - 7 Externalizing
 - 5 Interpersonal
 - 5 PSY-5 Scales

MMPI-3 Validity Scales

- CRIN Combined Response Inconsistency Combination of random and fixed inconsistent responding
- VRIN Variable Response Inconsistency Random responding
- TRIN True Response Inconsistency Fixed responding
- □ F Infrequent Responses Responses infrequent in the general population
- F_P Infrequent Psychopathology Responses Responses infrequent in psychiatric populations
- Fs Infrequent Somatic Responses Somatic complaints infrequent in medical patient populations
- FBS Symptom Validity Scale Noncredible somatic and cognitive complaints
- RBS Response Bias Scale Exaggerated memory complaints
- L Uncommon Virtues Rarely claimed moral attributes or activities
- K Adjustment Validity Claims of uncommonly high level of psychological adjustment

MMPI-3 Higher-Order (H-O) Scales

- EID Emotional/Internalizing Dysfunction Problems associated with mood and affect
- THD Thought Dysfunction Problems associated with disordered thinking
- BXD Behavioral/Externalizing Dysfunction Problems associated with under-controlled behavior

MMPI-3 Restructured Clinical (RC) Scales

- RCd **Demoralization** General unhappiness and dissatisfaction
- RC1 Somatic Complaints Diffuse physical health complaints
- RC2 Low Positive Emotions Lack of positive emotional responsiveness
- RC4 Antisocial Behavior Rule breaking and irresponsible behavior
- RC6 Ideas of Persecution Self-referential beliefs that others pose a threat
- RC7 Dysfunctional Negative Emotions Maladaptive anxiety, anger, irritability
- RC8 Aberrant Experiences Unusual perceptions or thoughts associated with thought dysfunction
- RC9 Hypomanic Activation Overactivation, aggression, impulsivity, and grandiosity

Somatic/Cognitive

- MLS Malaise Overall sense of physical debilitation, poor health
- NUC Neurological Complaints Dizziness, weakness, paralysis, loss of balance, etc.
- EAT Eating Concerns Problematic eating behaviors
- COG Cognitive Complaints Memory problems, difficulties concentrating

Internalizing

- SUI Suicidal/Death Ideation Direct reports of suicidal ideation and recent attempts
- HLP Helplessness/Hopelessness Belief that goals cannot be reached or problems solved
- SFD **Self-Doubt** Lack of self-confidence, feelings of uselessness
- NFC **Inefficacy** Belief that one is indecisive and inefficacious
- STR Stress Problems involving stress and nervousness
- WRY **Worry** Excessive worry and preoccupation
- CMP Compulsivity Engaging in compulsive behaviors
- ARX Anxiety-Related Experiences Multiple anxiety-related experiences such as catastrophizing, panic, dread, and intrusive ideation
- ANP **Anger Proneness** Becoming easily angered, impatient with others
- BRF Behavior-Restricting Fears Fears that significantly inhibit normal behavior

Externalizing

- FML Family Problems Conflictual family relationships
- JCP Juvenile Conduct Problems Difficulties at school and at home, stealing
- SUB Substance Abuse Current and past misuse of alcohol and drugs
- IMP Impulsivity Poor impulse control and nonplanful behavior
- ACT Activation Heightened excitation and energy level
- AGG Aggression Physically aggressive, violent behavior
- CYN Cynicism Non-self-referential beliefs that others are bad and not to be trusted

Interpersonal

- SFI **Self-Importance** Beliefs related to having special talents and abilities
- DOM **Dominance** Being domineering in relationships with others
- DSF Disaffiliativeness Disliking people and being around them
- SAV **Social Avoidance** Not enjoying and avoiding social events
- SHY Shyness Feeling uncomfortable and anxious in the presence of others

MMPI-3 PSY-5 Scales

- □ AGGR **Aggressiveness** Instrumental, goal-directed aggression
 - PSYC **Psychoticism** Disconnection from reality
 - DISC **Disconstraint** Under-controlled behavior
 - NEGE **Negative Emotionality/Neuroticism** Anxiety, insecurity, worry, and fear
- INTR Introversion/Low Positive Emotionality Social disengagement and anhedonia

Development: Items

- Scale Development Outcome
 - □72 new items added
 - ■75 MMPI-2-RF items dropped
- ☐ MMPI-3: 335 items
 - 220 original MMPI (47 revised for MMPI-2 or MMPI-3)
 - 43 MMPI-2 items (5 revised for MMPI-3)
 - 72 new MMPI-3
 - Reading level remains grade 4.5 (Flesch-Kinkaid)

Development: Norms

- English-Language Normative Sample
 - Selected to approximate 2020 census projections for
 - Race
 - Education
 - Age
 - □ Final Sample N=1,620 (810 men, 810 women)

Race/Ethnicity Composition of MMPI-3 Normative Sample

Race/Ethnicity	MMPI-3 N	MMPI-3 %	2020 Projected %	MMPI-2-RF %
Asian	82	5.1%	6.0%	0.6%
Black	201	12.4%	12.2%	11.6%
Hispanic	227	14.0%	16.8%	2.9%
White	977	60.3%	62.5%	81.8%
Other	60	3.7%	0.9%	3.1%
Mixed Race	73	4.5%	1.6%	0.0%
Total	1620	100.0%	100.0%	100.0%

Education Composition of MMPI-3 Normative Sample

Education Groups	MMPI-3 N	MMPI-3 %	2020 Projected %	MMPI-2-RF %
No High School or GED	139	8.6%	11.1%	5.0%
High School or GED	469	29.0%	29.0%	24.3%
Some College	449	27.7%	28.6%	25.0%
Bachelors Degree or Higher	563	34.8%	31.4%	45.8%
Total	1620	100.0%	100.0%	100.0%

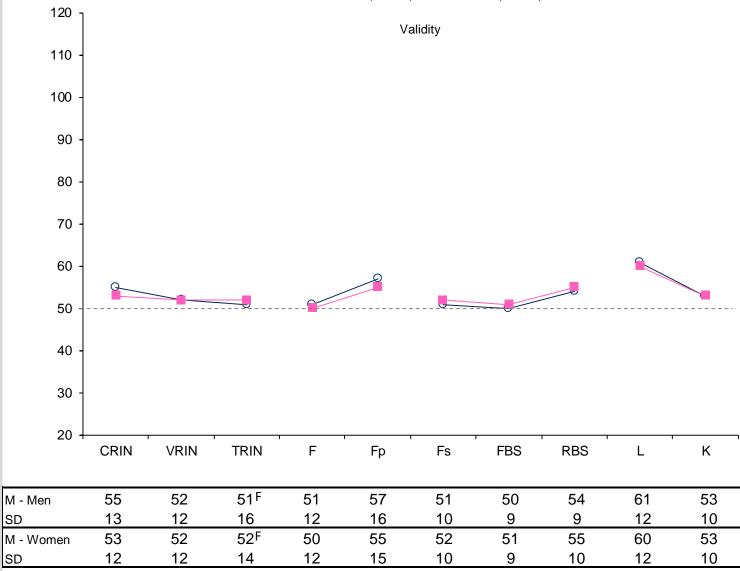
Have the Norms Changed?

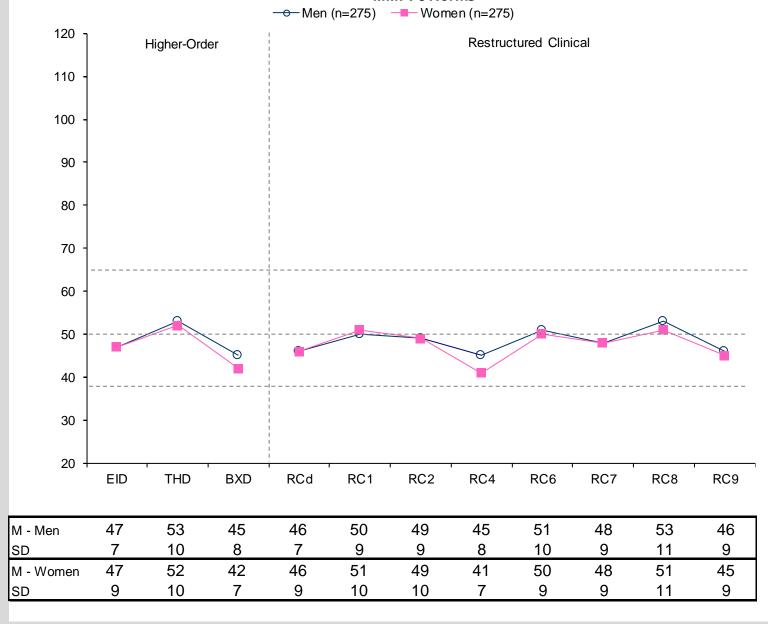
Have the Norms Changed?

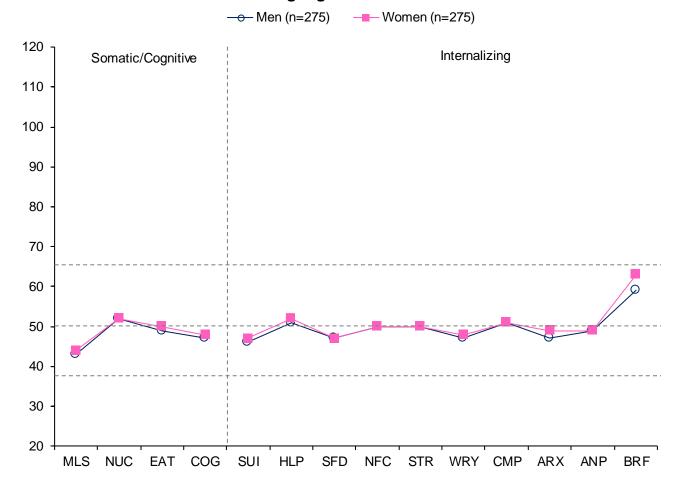
- Yes, however less than the changes from the MMPI to MMPI-2 norms
 - Largest Validity Scale changes (5-6 T score points difference in means) on F-r, Fs, FBS-r (women) and L-r
 - However these are offset, to some extent, by the larger SDs (12-14 versus 10)
 - Nevertheless, T scores are lower on the updated and re-normed F, Fs, FBS (women) and L scales
 - Largest Substantive Scale changes (6-8 T score points difference in means) on BXD (men), RC1 (women), RC4 (men), RC6 (men), MLS, NUC (women), DISC (men)
 - These are less offset by larger SDs
 - T scores are lower on updated re-normed Somatization scales

Spanish-Language Norms



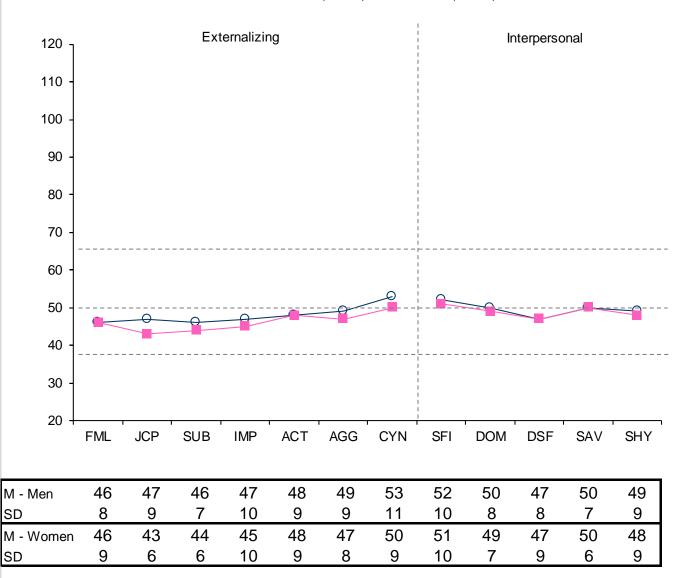




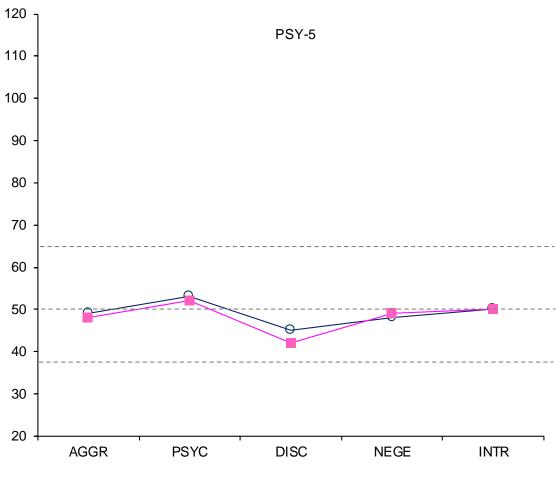


M - Men	43	52	49	47	46	51	47	50	50	47	51	47	49	59
SD	9	11	9	9	7	9	7	9	7	8	10	8	9	12
M - Women	44	52	50	48	47	52	47	50	50	48	51	49	49	63
SD	9	11	10	9	8	9	8	9	9	9	11	10	9	14

— Men (n=275) — Women (n=275)



— Men (n=275) — Women (n=275)



Mean	49	53	45	48	50
SD	8	11	7	7	7
Mean	48	52	42	49	50
SD	7	10	7	8	7

Spanish-Language Norms

- Most means fall within 5 T score points of English language Normative Sample
- Exceptions:
 - L (10 T score points higher both genders)
 - BXD, RC4, JCP, DISC (7-9 points lower women only)
 - MLS (6-7 points lower both genders)
 - BRF (9-13 points higher both genders)
- Somewhat reduced variability
- Separate norms <u>are</u> needed

MMPI-3 Manuals and User's Guides

MMPI-3 Manuals

- Administration, Scoring and Interpretation
 - ■Similar to MMPI-2-RF
 - User Qualifications
 - Normative Sample
 - Administration and scoring
 - Comprehensive interpretive guidelines
 - Case illustrations
 - Scoring keys and T score conversions
 - Item metrics

Manuals

- Technical Manual
 - Test Development
 - Reliability and SEM Data
 - Empirical Correlates (Appendix D)
 - Comparability with MMPI-2-RF Correlates (Appendix E)
 - Mental Health
 - Medical
 - Forensic
 - Public Safety

Table X. Correlations Between MMPI-2-RF and MMPI-3 Restructured Clinical (RC) Scales and Measures of Thought Dysfunction – College Students (N=288-871)

	Restructured Clinical (RC)											
	Scales											
	RC2	RC2	RC4	RC4	RC6	RC6	RC7	RC7	RC8	RC8	RC9	RC9
	RF	3	RF	3	RF	3	RF	3	RF	3	RF	3
CMIS-15	.07	.05	.28	.24	.42	.30	.31	.27	.53	.53	.42	.32
DES-II – Total Score	.20	.20	.25	.21	.29	.27	.35	.34	.43	.45	.24	.30
DES-II – Amnesia	.15	.14	.25	.20	.27	.23	.22	.22	.28	.29	.20	.23
DES-II – Depersonalization	.19	.18	.19	.15	.18	.14	.24	.21	.40	.39	.13	.18
DES-II – Absorption	.22	.22	.22	.19	.25	.25	.41	.38	.40	.41	.24	.32
GPTS – Total	.20	.21	.16	.09	.55	.59	.51	.48	.42	.43	.31	.26
GPTS – Reference	.25	.24	.17	.11	.50	.51	.59	.55	.42	.43	.31	.27
GPTS – Persecution	.10	.12	.12	.05	.52	.59	.33	.31	.35	.36	.25	.19
GPTS – PC	.19	.20	.19	.12	.54	.57	.47	.44	.43	.43	.28	.21
GPTS – PP	.25	.26	.14	.10	.51	.53	.50	.48	.39	.39	.25	.22
GPTS – PD	.24	.25	.13	.06	.48	.51	.52	.47	.37	.38	.26	.22
PIQ	.20	.19	.25	.21	.54	.55	.42	.37	.42	.43	.32	.25

Note. RC2 = Low Positive Emotions (LPE); RC4 = Antisocial Behavior (ASB); RC6 = Ideas of Persecution (PER); RC7 = Dysfunctional Negative Emotions (DNE); RC8 = Aberrant Experiences (ABX); RC9 = Hypomanic Activation (HPM); CMIS-15 = Chapman Magical Ideation Scale-15; DES-II = Dissociative Experiences Scale-II; GPTS = Green Paranoid Thought Scale; PC = Paranoia Conviction; PP = Paranoia Preoccupation; PD = Paranoia Distress; PIQ = Persecutory Ideation Questionnaire. All scales ending in "RF" indicate MMPI-2-RF version of the scale. All scales ending in "3" indicate MMPI-3 version of the scale.

MMPI-3 Manuals

■ Technical Manual

- Test Development
- Reliability and SEM Data
- Empirical Correlates (Appendix D)
- Comparability with MMPI-2-RF Correlates (Appendix E)
 - MMPI-2-RF findings apply to MMPI-3 versions of MMPI-2-RF scales
 - Including:
 - Findings from MMPI-2-RF Technical Manual ($\sim 54,000$ empirical correlates)
 - 450+ peer-reviewed publications

MMPI-3 Manuals

■ Technical Manual

- Test Development
- Reliability and SEM Data
- Empirical Correlates (Appendix D)
- Comparability with MMPI-2-RF Correlates (Appendix E)
- Comparison Groups (Appendix F)
 - 20 at release

MMPI-3 Standard Comparison Groups

- MMPI-3 Normative (Men & Women)
- Outpatient, Community Mental Health Center (Men & Women)
- Outpatient, Private Practice (Men & Women)
- College Counseling Clinic (Women)
- Sexual Addiction Treatment Evaluee (Men)
- Spine Surgery Candidates (Men & Women)
- Forensic, Disability Claimant (Men & Women)
- Prison Inmate (Men)
- Sex Offender Evaluee (Men)
- Personnel Screening, Police Candidate (Combined)
- Personnel Screening, Corrections Officer (Combined)
- Personnel Screening, Dispatcher Candidate (Combined)
- College Student (Men & Women)
- MMPI-3 Spanish-Language Normative Sample (Men & Women)

	Торіс	MMPI-3 Sources							
I.	Protocol Validity								
	a. Content Non-	CNIC CDDI UDDI TDDI							
	Responsiveness	CNS, CRIN, VRIN, TRIN							
	b. Overreporting	F, Fp, Fs, FBS, RBS							
	c. Underreporting	L, K							
II.	Substantive Scale Interpretation								
	a. Somatic/Cognitive Dysfunction	RC1, MLS, NUC, EAT, COG							
	b. Emotional	1. EID							
	Dysfunction	2. RCd, SUI, HLP, SFD, NFC							
		3. RC2							
		4. RC7, STR, WRY, CMP, ARX, ANP, BRF							
		5. NEGE, INTR							
	c. Thought	1. THD							
	Dysfunction	2. RC6							
		3. RC8							
		4. PSYC							
	d. Behavioral	1. BXD							
	Dysfunction	2. RC4, FML, JCP, SUB							
		3. RC9, IMP, ACT, AGG, CYN							
		4. DISC							
	e. Interpersonal	1. SFI, DOM, DSF, SAV, SHY							
	Functioning	2. AGGR							
	f. Diagnostic	Most substantive scales							
	Considerations	Most substantive scales							
	g. Treatment Considerations	All substantive scales							

- □ Ms. N
 - 33-year-old, married, woman
 - Assessed at intake for outpatient treatment
 - Prior mental health treatment for depression following birth of second child 5 years prior to current intake
 - Responded well to 12 sessions of CBT plus antidepressant
 - Discontinued medication within a year
 - Family history of inpatient treatment for depression for both father and older brother

□ Ms. N

- Reported that during the preceding 3-month period she had begun to feel increasingly despondent and anxious
- No identifiable precipitating event
- Husband supportive, taking on increased child-care responsibilities
- Husband insists she return for treatment leading to current intake

□ Ms. N

- Intake worker describes Ms. N as presenting with marked sadness and depression, anhedonia, and fatigue
- Also noted to be feeling overwhelmed, experiencing decreased sleep, reporting difficulties with attention and concertation, and being socially isolated
- Worker also noted Ms. N was experiencing heightened anxiety level, excessive worry, and feeling nervous
- No thoughts about self-harm



Score Report

MMPI®-3

Minnesota Multiphasic Personality Inventory®-3 Yossef S. Ben-Porath, PhD, & Auke Tellegen, PhD

 ID Number:
 Ms. N

 Age:
 34

 Gender:
 Female

 Marrial Status:
 Married

 Years of Education:
 12

Date Assessed: 06/21/2019

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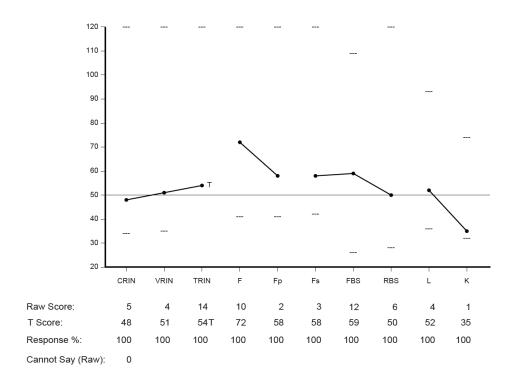
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[1.0 / RE1 / QG1]

MMPI®-3 Score Report 06/21/2019, Page 2 ID: Ms. N

MMPI-3 Validity Scales



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 VRIN Variable Response Inconsistency

TRIN True Response Inconsistency

Infrequent Responses Infrequent Psychopathology Responses

Infrequent Somatic Responses

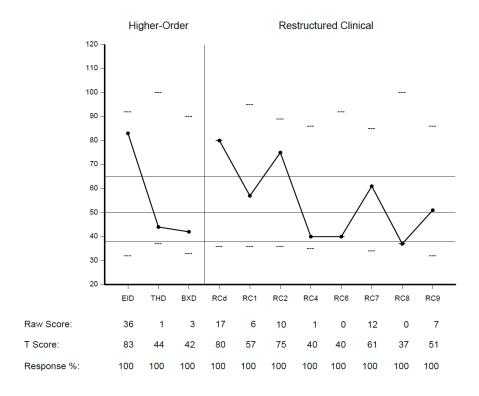
FBS Symptom Validity Scale

RBS Response Bias Scale

L Uncommon Virtues K Adjustment Validity

MMPI®-3 Score Report ID: Ms. N 06/21/2019, Page 3

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



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 THD Thought Dysfunction

BXD Behavioral/Externalizing Dysfunction

RCd Demoralization

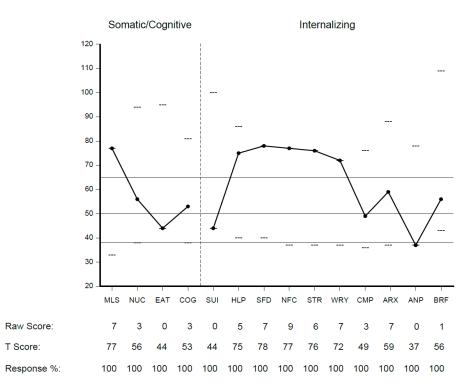
RC1 Somatic Complaints
RC2 Low Positive Emotions
RC4 Antisocial Behavior

RC6 Ideas of Persecution

RC7 Dysfunctional Negative Emotions RC8 Aberrant Experiences

RC9 Hypomanic Activation

MMPI-3 Somatic/Cognitive Dysfunction and Internalizing Scales



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

MLS Malaise NUC Neurological Complaints

EAT Eating Concerns

COG Cognitive Complaints

SUI Suicidal/Death Ideation HLP Helplessness/Hopelessness

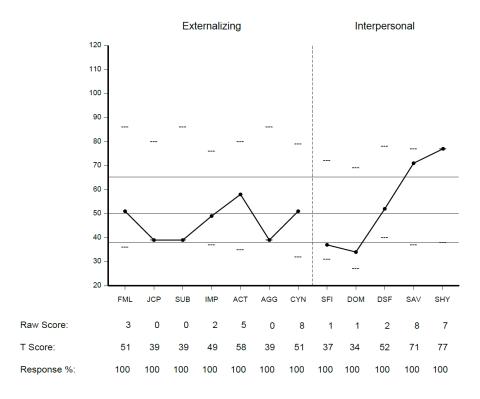
SFD Self-Doubt
NFC Inefficacy
STR Stress

WRY Worry CMP Compulsivity

ARX Anxiety-Related Experiences

ANP Anger Proneness
BRF Behavior-Restricting Fears

MMPI-3 Externalizing and Interpersonal Scales



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

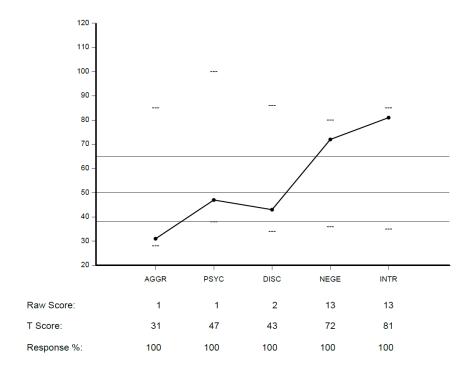
FML Family Problems
JCP Juvenile Conduct Problems
SUB Substance Abuse
IMP Impulsivity

ACT Activation AGG Aggression CYN Cynicism SFI Self-Importance
DOM Dominance
DSF Disaffiliativeness
SAV Social Avoidance
SHY Shyness

MMPI®-3 Score Report 06/21/2019, Page 6

ID: Ms. N

MMPI-3 PSY-5 Scales



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	48	51	54 T		
	CNS	CRIN	VRIN	TRIN		
Over-Reporting	72	58	_	58	59	50
	F	Fp		Fs	FBS	RBS
Under-Reporting	52	35				
	L	K				

SUBSTANTIVE SCALES

ITEM-LEVEL INFORMATION

Unscorable Responses

The test taker 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 that answered each item in the keyed direction is provided in parentheses following the item content.

Helplessness/Hopelessness (HLP, T Score = 75)

- 118. Making changes in my life will be almost impossible. (True, 10.9%)
- 169. The future seems hopeless to me. (True, 8.7%)
- 224. I have lost hope. (True, 4.6%)
- 238. I recognize several faults in myself that I will not be able to change. (True, 45.4%)
- 296. I have given up hope of amounting to anything. (True, 8.4%)

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 test taker 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 that answered each item in the keyed direction is provided in parentheses following the item content.

Malaise (MLS, T Score = 77)

- 18. I feel weak all over much of the time. (True, 68,2%)
- 163. I wake up fresh and rested most mornings. (False, 47.0%)
- 174. During the past few years I have been well most of the time. (False, 16.5%)
- 202. I have never felt better in my life than I do now. (False, 59.7%)
- 247. I feel tired a good deal of the time. (True, 49.7%)
- 262. I am in just as good physical health as most of my friends. (False, 28.6%)
- 333. I do not tire quickly. (False, 43.3%)

Self-Doubt (SFD, T Score = 78)

- 17. I feel worthless. (True, 11.3%)
- 48. I am certainly lacking in self-confidence. (True, 29.4%)
- 89. I certainly feel useless at times. (True, 41.0%)
- 184. I am a burden to others. (True, 11.8%)
- 229. At times I think I am no good at all. (True, 28.7%)
- 249. I don't think my abilities amount to much. (True, 14.6%)
- 288. I often feel that I'm not as good as other people. (True, 32.0%)

Inefficacy (NFC, T Score = 77)

- 27. I have often lost out on things because I couldn't make up my mind soon enough. (True, 37.7%)
- 68. I usually have to stop and think before I act even in small matters. (True, 45.2%)
- 108. I have several times given up doing a thing because I thought too little of my ability. (True, 42.3%)
- 144. I have difficulty starting to do things. (True, 35.3%)

MMPI®-3 Score Report ID: Ms. N 06/21/2019, Page 9

```
152. I feel like giving up quickly when things go wrong. (True, 23.9%)
   198. I shrink from facing a crisis or difficulty. (True, 25.2%)
   274. I usually have a hard time deciding what to do. (True, 29.0%)
   299. I feel helpless when I have to make some important decisions. (True, 20.9%)
   324. Having to make important decisions makes me nervous. (True, 40.2%)
Stress (STR, T Score = 76)
      8. I function well under stress. (False, 31.7%)
    73. I believe I am no more nervous than most others. (False, 26.7%)
   112. Other people are not as easily stressed as I am. (True, 30.9%)
   128. I am easily stressed out. (True, 31.6%)
   167. It makes me nervous to have to wait. (True, 31.9%)
   234. I am not feeling much pressure or stress these days. (False, 58.8%)
Worry (WRY, T Score = 72)
    29. I am likely to feel disappointments so strongly that I can't put them out of my mind. (True, 42.5%)
    98. I often worry about terrible things that might happen. (True, 26.3%)
   123. I worry guite a bit over possible misfortunes. (True, 40.6%)
   232. I often lose sleep over worries. (True, 31.1%)
   286. I often worry about something more than I should. (True, 54.0%)
   309. I worry a great deal over money. (True, 57.8%)
   335. I frequently find myself worrying about something. (True, 50.9%)
Social Avoidance (SAV, T Score = 71)
    20. I am a very sociable person, (False, 27.2%)
    37. I like to go to social events where there is lots of loud fun. (False, 53.1%)
    57. I enjoy social gatherings just to be with people. (False, 24.1%)
    94. I do not mind meeting strangers. (False, 14.8%)
   107. I enjoy the excitement of a crowd. (False, 45.7%)
   153. My worries seem to disappear when I get into a crowd of lively friends. (False, 37.4%)
   201. I like parties. (False, 26.7%)
   278. Whenever possible I avoid being in a crowd. (True, 41.5%)
Shyness (SHY, T Score = 77)
    35. I frequently have to fight against showing that I am bashful. (True. 18.8%)
    44. I find it hard to talk when I meet new people. (True, 27.8%)
    90. I am easily embarrassed. (True, 29.1%)
   114. I wish I were not so shy. (True, 38.0%)
   177. I am likely not to speak to people until they speak to me. (True, 38.6%)
   225. In school I found it very hard to talk in front of the class. (True, 52.2%)
   295. I have no dread of going into a room by myself where other people have already gathered and are
         talking. (False, 32.3%)
```

End of Report

- □ Mr. S
 - 26 year old, single, man
 - Presented at mental health outpatient center at the insistence of his employer
 - Referral made following co-workers' complaints about Mr. S's increasingly erratic behavior during weeks leading to the evaluation
 - Intake worker reported that Mr. S's presentation included a very labile mood, ranging from elation to tearfulness, pressured speech and agitation, and difficulty maintaining attention and concentration

- □ Mr. S
 - During intake interview, Mr. S. acknowledged experiencing suicidal ideation, but denied having any specific plans or desire to harm himself or others
 - His father died by suicide 10 years prior to the current evaluation, following ears of outpatient and occasional inpatient treatment for "manic depression"



Score Report

MMPI®-3

Minnesota Multiphasic Personality Inventory®-3 Yossef S. Ben-Porath, PhD, & Auke Tellegen, PhD

ID Number: Mr. S Age: 26 Gender: Male

Marital Status: Never Married

Years of Education: 16

Date Assessed: 06/21/2019

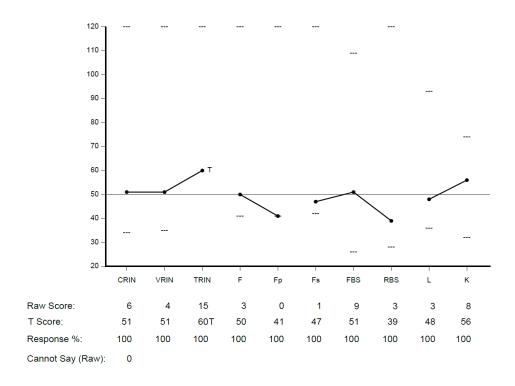
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[1.0 / RE1 / QG1]

MMPI-3 Validity Scales



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 VRIN Variable Response Inconsistency

TRIN True Response Inconsistency

Infrequent Responses
Infrequent Psychopathology Responses

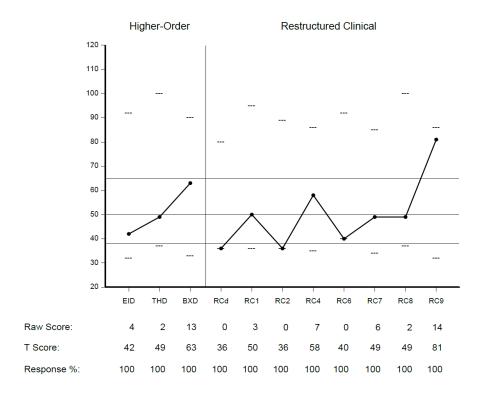
L Uncommon Virtues nses K Adjustment Validity

ID: Mr. S

Fs Infrequent Somatic Responses

FBS Symptom Validity Scale RBS Response Bias Scale MMPI®-3 Score Report 06/21/2019, Page 3 ID: Mr. S

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



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

THD Thought Dysfunction

BXD Behavioral/Externalizing Dysfunction

RCd Demoralization

RC1 Somatic Complaints

RC4 Antisocial Behavior

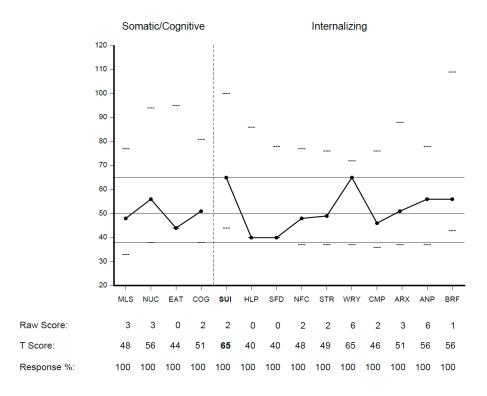
RC6 Ideas of Persecution

RC7 Dysfunctional Negative Emotions RC2 Low Positive Emotions RC8 Aberrant Experiences

RC9 Hypomanic Activation

MMPI®-3 Score Report 06/21/2019, Page 4

MMPI-3 Somatic/Cognitive Dysfunction and Internalizing Scales



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

MLS Malaise NUC Neurological Complaints

EAT Eating Concerns

COG Cognitive Complaints

Suicidal/Death Ideation HLP Helplessness/Hopelessness SFD

Self-Doubt NFC Inefficacy STR Stress

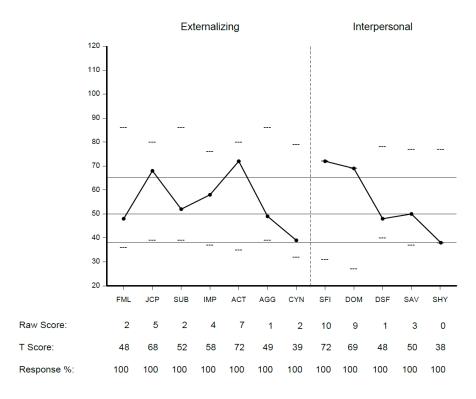
WRY Worry

CMP Compulsivity ARX Anxiety-Related Experiences

ID: Mr. S

ANP Anger Proneness BRF Behavior-Restricting Fears

MMPI-3 Externalizing and Interpersonal Scales

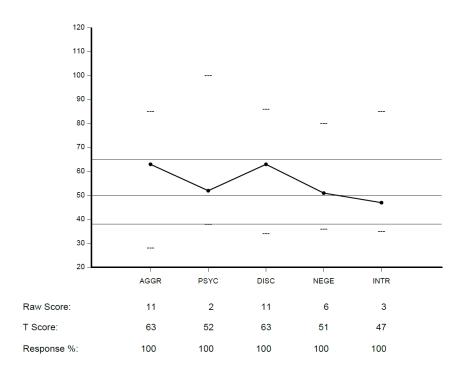


The highest and lowest T scores possible on each scale are indicated by a "---"; MMPI-3 T scores are non-gendered.

FML Family Problems
JCP Juvenile Conduct Problems
SUB Substance Abuse
IMP Impulsivity

ACT Activation AGG Aggression CYN Cynicism SFI Self-Importance
DOM Dominance
DSF Disaffiliativeness
SAV Social Avoidance
SHY Shyness

MMPI-3 PSY-5 Scales



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

SUBSTANTIVE SCALES

ITEM-LEVEL INFORMATION

Unscorable Responses

The test taker 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 his 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 that answered each item in the keved direction is provided in parentheses following the item content.

Suicidal/Death Ideation (SUI, T Score = 65)

- 38. I've thought about how I might kill myself. (True, 22.2%)
- 251. No one knows it but I have tried to kill myself. (True, 10.1%)

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 test taker in the keyed direction (True or False) on a selected scale are listed below if his T score on that scale is at the user-designated cutoff score or higher. The percentage of the MMPI-3 normative sample that answered each item in the keyed direction is provided in parentheses following the item content.

Hypomanic Activation (RC9, T Score = 81)

- 3. I often do things on the spur of the moment. (True, 58.5%)
- 39. I often act guickly without thinking things through. (True, 30.3%)
- 61. I have never done anything dangerous for the thrill of it. (False, 63.6%)
- 72. At times my thoughts have raced ahead faster than I could speak them. (True, 71.2%)
- 82. I've done things on impulse that ended up causing me trouble. (True, 50.1%)
- 131. When I get bored I like to stir up a little excitement. (True, 37.8%)
- 155. I get mad easily and then get over it soon. (True, 35.3%)
- 166. Sometimes without any reason or even when things are going wrong I feel excitedly happy, "on top of the world." (True, 37.3%)
- 181. Once a week or oftener I become very excited. (True, 39.8%)
- 207. I have periods in which I feel unusually cheerful without any special reason. (True, 45.7%)
- 219. Sometimes I become so excited that I find it hard to get to sleep. (True, 49.0%)
- 259. I often act on impulse. (True, 32.2%)
- 267. I have had periods when I felt so full of energy that sleep did not seem necessary for days at a time. (True, 15.8%)
- 285. At times I can't seem to stop talking. (True, 28.0%)

Activation (ACT, T Score = 72)

- 72. At times my thoughts have raced ahead faster than I could speak them. (True, 71.2%)
- 166. Sometimes without any reason or even when things are going wrong I feel excitedly happy, "on top of the world." (True, 37.3%)
- 181. Once a week or oftener I become very excited. (True, 39.8%)
- 207. I have periods in which I feel unusually cheerful without any special reason. (True, 45.7%)
- 219. Sometimes I become so excited that I find it hard to get to sleep. (True, 49.0%)
- 267. I have had periods when I felt so full of energy that sleep did not seem necessary for days at a time. (True, 15.8%)

285. At times I can't seem to stop talking. (True, 28.0%)

Self-Importance (SFI, T Score = 72)

- 4. I have very special talents that few others have. (True, 45.4%)
- 11. I have many brilliant ideas. (True, 63.2%)
- 47. I think I'm an extraordinary person. (True, 58.8%)
- 62. I am an important person. (True, 70.3%)
- 91. I am a very ordinary person. (False, 46.2%)
- 182. I am entirely self-confident. (True, 49.8%)
- 188. I have special abilities. (True, 48.8%)
- 239. If given the chance I would make a good leader of people. (True, 74.5%)
- 284. I think I'm a pretty special person. (True, 65.2%)
- 326. I have some outstanding qualities. (True, 83.3%)

Dominance (DOM, T Score = 69)

- 24. I am easily defeated in an argument. (False, 85.2%)
- 60. I frequently find it necessary to stand up for what I think is right. (True, 78.7%)
- 104. I strongly defend my own opinions as a rule. (True, 68.8%)
- 147. I like to let people know where I stand on things. (True, 74.7%)
- 197. I am usually very direct with people I am trying to correct or improve. (True, 74.3%)
- 276. When people do something that makes me angry, I let them know how I feel about it. (True, 60.7%)
- 300. I would not be a good leader. (False, 80.6%)
- 302. I like making decisions and assigning jobs to others. (True, 66.5%)
- 327. I am often inclined to go out of my way to win a point with someone who has opposed me. (True, 39.8%)

End of Report

- □ Mr. A
 - 42 tear old, divorced, man
 - Assessed at intake to a crisis intervention unit
 - Brought to the facility by local law enforcement, after his father reported that Mr. A had become paranoid and was threatening to harm family members, whom he believed were plotting to kill him
 - Long-established diagnosis of Schizophrenia with paranoid features

- □ Mr. A
 - Several prior hospitalizations, typically following discontinuation of medication and resulting exacerbation
 - Unemployed most of his adult life
 - Living with elderly parents
 - Married for a short time during his early 20s
 - Wife sought dissolution after Mr. A began showing early signs of his mental illness
 - No children

- □ Mr. A
 - At intake, described as presenting with paranoid delusional beliefs and possibly responding to internal stimuli
 - Also demonstrated signs of disorganized thinking, frequently losing his train of thought
 - Speech marked by clang associations



Score Report

MMPI®-3

Minnesota Multiphasic Personality Inventory®-3 Yossef S. Ben-Porath, PhD, & Auke Tellegen, PhD

 ID Number:
 Mr. A

 Age:
 42

 Gender:
 Male

 Marital Status:
 Divorced

 Years of Education:
 11

Date Assessed: 06/21/2019

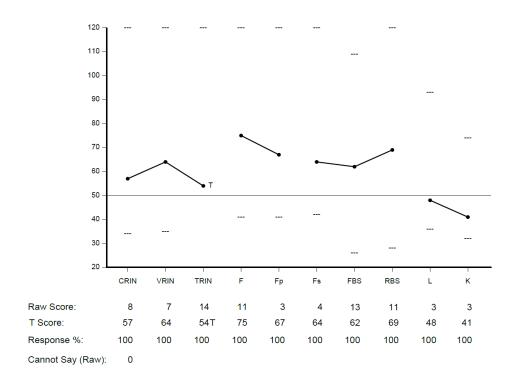
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[1.0 / RE1 / QG1]

MMPI-3 Validity Scales



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 VRIN Variable Response Inconsistency

TRIN True Response Inconsistency

Infrequent Responses

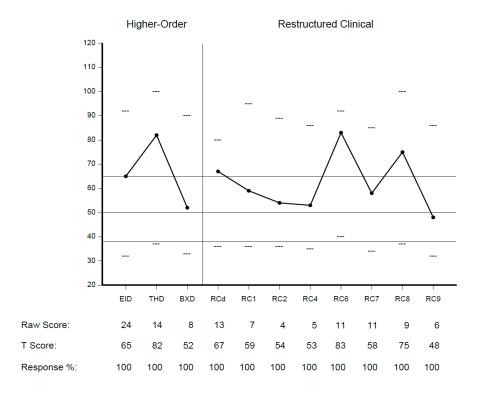
Infrequent Psychopathology Responses

Infrequent Somatic Responses

FBS Symptom Validity Scale RBS Response Bias Scale

L Uncommon Virtues K Adjustment Validity MMPI®-3 Score Report ID: Mr. A 06/21/2019, Page 3

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



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

THD Thought Dysfunction

BXD Behavioral/Externalizing Dysfunction

RCd Demoralization

RC1 Somatic Complaints
RC2 Low Positive Emotions

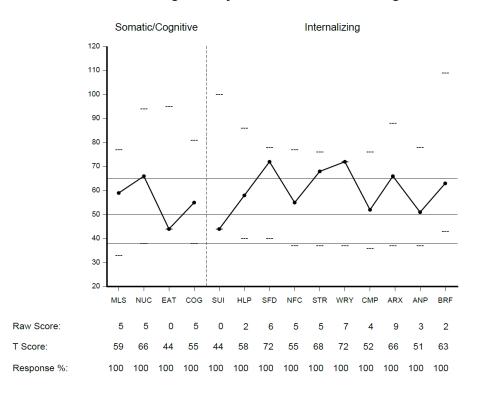
RC2 Low Positive Emotion
RC4 Antisocial Behavior

RC6 Ideas of Persecution

RC7 Dysfunctional Negative Emotions

RC8 Aberrant Experiences RC9 Hypomanic Activation

MMPI-3 Somatic/Cognitive Dysfunction and Internalizing Scales



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

MLS Malaise

NUC Neurological Complaints

EAT Eating Concerns
COG Cognitive Complaints

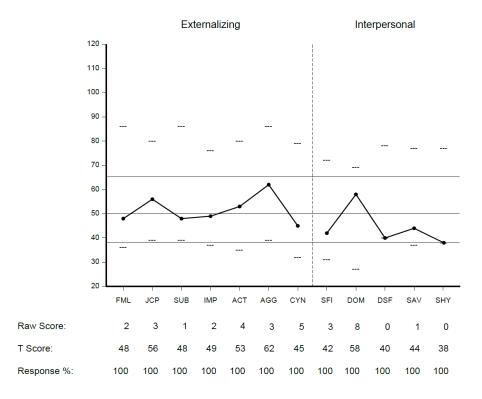
SUI Suicidal/Death Ideation
HLP Helplessness/Hopelessness

SFD Self-Doubt NFC Inefficacy STR Stress WRY Worry

CMP Compulsivity
ARX Anxiety-Related Experiences

ANP Anger Proneness
BRF Behavior-Restricting Fears

MMPI-3 Externalizing and Interpersonal Scales

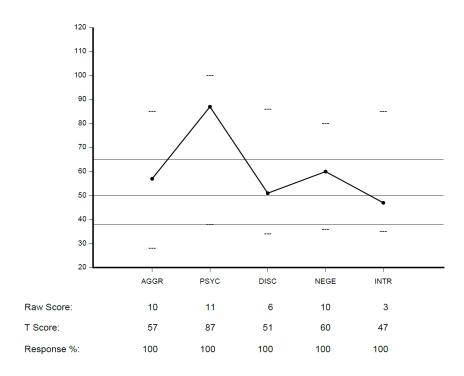


The highest and lowest T scores possible on each scale are indicated by a "---"; MMPI-3 T scores are non-gendered.

FML Family Problems
JCP Juvenile Conduct Problems
SUB Substance Abuse
IMP Impulsivity

ACT Activation AGG Aggression CYN Cynicism SFI Self-Importance
DOM Dominance
DSF Disaffiliativeness
SAV Social Avoidance
SHY Shyness

MMPI-3 PSY-5 Scales



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)

54 T

TRIN

PROTOCOL VALIDITY

SUBSTANTIVE SCALES

PSYC

MMPI®-3 Score Report ID: Mr. A 06/21/2019, Page 8

ITEM-LEVEL INFORMATION

Unscorable Responses

The test taker 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 his 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 that answered each item in the keyed direction is provided in parentheses following the item content.

Anxiety-Related Experiences (ARX, T Score = 66)

- 26. My anxiety sometimes gets out of control. (True, 31.2%)
- 146. Almost every day something happens to frighten me. (True, 4.7%)
- 228. I feel anxiety about something or someone almost all the time. (True, 26.0%)
- 235. I sometimes relive bad experiences. (True, 41.7%)
- 244. My heart sometimes starts racing for no apparent reason. (True, 14.9%)
- 252. I am an anxious person. (True, 35.8%)
- 275. Several times a week I feel as if something dreadful is about to happen. (True, 8.6%)
- 287. A sudden noise will often startle me. (True, 39.8%)
- 289. I have often been frightened in the middle of the night. (True, 15.2%)

Ideas of Persecution (RC6, T Score = 83)

- 71. I believe I am being plotted against. (True, 2.9%)
- 92. I believe I am being followed. (True, 1.4%)
- 109. I feel that I have often been punished without cause. (True, 26.7%)
- 165. People do things just to make me look bad. (True, 7.8%)
- 194. I am sure I am being talked about. (True, 30.9%)
- 212. I have no enemies who really wish to harm me. (False, 16.4%)
- 233. People say insulting and vulgar things about me. (True, 11.9%)
- 241. Some people are against me for no good reason. (True, 12.1%)
- 254. Some people will be pleased if I fail. (True, 19.0%)
- 264. Someone has it in for me. (True, 5.6%)
- 310. People are not very kind to me. (True, 7.7%)

Aberrant Experiences (RC8, T Score = 75)

- 36. I have had very peculiar and strange experiences. (True, 38.0%)
- 85. I have never seen a vision. (False, 36.5%)
- 122. I have had attacks when I could not control my movements or speech but knew what was going on around me. (True, 5.9%)
- 161. Bad words, often terrible words, come into my mind and I cannot get rid of them. (True, 12.7%)
- 199. Peculiar odors come to me at times. (True, 18.2%)
- 240. I often feel as if things are not real. (True, 11.2%)
- 273. I hear strange things when I am alone. (True, 5.7%)
- 311. Sometimes I am sure that other people can tell what I am thinking. (True, 17.1%)
- 330. I sometimes seem to hear my thoughts being spoken out loud. (True, 12.5%)

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 test taker in the keyed direction (True or False) on a selected scale are listed below if his T score on that scale is at the user-designated cutoff score or higher. The percentage of the MMPI-3 normative sample that answered each item in the keyed direction is provided in parentheses following the item content.

```
Demoralization (RCd, T Score = 67)
     17. I feel worthless. (True, 11.3%)
     22. I wish I could be as happy as others seem to be. (True, 44.5%)
    30. Most of the time I feel blue. (True, 14.9%)
    48. I am certainly lacking in self-confidence. (True, 29.4%)
    89. I certainly feel useless at times. (True, 41.0%)
   105. I am happy most of the time. (False, 15.7%)
   152. I feel like giving up quickly when things go wrong. (True, 23.9%)
   158. Life is a strain for me much of the time. (True. 21.9%)
   187. I have sometimes felt that difficulties were piling up so high that I could not overcome them. (True,
         58.0%)
   204. Even when I am with people I feel lonely much of the time. (True, 27.8%)
   217. I very seldom have spells of the blues. (False, 46.0%)
   260. I sometimes feel that I am about to go to pieces. (True, 25.7%)
   288. I often feel that I'm not as good as other people. (True, 32.0%)
Self-Doubt (SFD, T Score = 72)
     17. I feel worthless. (True, 11.3%)
    48. I am certainly lacking in self-confidence. (True, 29.4%)
    89. I certainly feel useless at times. (True, 41.0%)
   184. I am a burden to others. (True, 11.8%)
   249. I don't think my abilities amount to much. (True, 14.6%)
   288. I often feel that I'm not as good as other people. (True, 32.0%)
Stress (STR, T Score = 68)
      8. I function well under stress. (False, 31.7%)
    73. I believe I am no more nervous than most others. (False, 26.7%)
   112. Other people are not as easily stressed as I am. (True, 30.9%)
   167. It makes me nervous to have to wait. (True, 31.9%)
   234. I am not feeling much pressure or stress these days. (False, 58.8%)
Worry (WRY, T Score = 72)
    29. I am likely to feel disappointments so strongly that I can't put them out of my mind. (True, 42.5%)
    98. I often worry about terrible things that might happen. (True, 26.3%)
   123. I worry quite a bit over possible misfortunes. (True, 40.6%)
   232. I often lose sleep over worries. (True, 31.1%)
   286. I often worry about something more than I should. (True, 54.0%)
   309. I worry a great deal over money. (True, 57.8%)
   335. I frequently find myself worrying about something. (True, 50.9%)
Behavior-Restricting Fears (BRF, T Score = 63)
   135. I am often afraid of the dark. (True, 10.8%)
   151. Dirt frightens or disgusts me. (True, 9.1%)
```

End of Report

Q&A

New Norms?

- Why was a new version of the MMPI needed?
- MMPI dates from 1940s.
- MMPI-II Revision in 1989 based on norms from 1980s.
- MMPI-II-RF used the old norms and reduced the content and altered the structure but norms were out of date in 2002.
- 40 years on the population has changed

How do you begin to interpret the new MMPI-III?

- Guidelines, Normative Comparison group?
- Protocol Validity
- Cannot say? Validity measures? Over-Reporting,
 Under-Reporting
- Substantive scales
- Higher-Order scales?
- Clinical Scale Elevations? Specific Problems?
- Diagnostic & Treatment?