A SCORING AND INTERPRETATION PROGRAM FOR THE MMPI-2 FAKE BAD SCALE (FBS)

Original scale citation: Lees-Haley P.R., English L.T., & Glenn W.J. (1991). A Fake Bad Scale on the MMPI-2 for personal injury Tolin, Ph.D. Please send claimants. Psychological Reports, 68, 203-210. comments to

Scoring program developed by David dto lin@harthosp.org.

INSTRUCTIONS:

Enter the item responses below. Then go to the "Interpretation" worksheet for help interpreting the score.

If you already have the raw score, go directly to the Interpretation page and enter the score in the yellow box on that page.

Note: the scoring program will prorate the FBS score with the mean of the remaining items if fewer than 10 items are left blank (Fox, 2004). Otherwise, "Too many blanks" will appear instead of a score.

		Total FBS Score	Examinee's Name (Optional):
		Too many blanks	
Item	Response $(1 = TRUE, 2 = FALSE)$		
11	Response (1 – 1ROL, 2 – 17LSL)	Revised October 7, 2005	
12		Note: This program is provided	for convenience only
18			bility for the accuracy of scoring
28		or interpretation, and no such gu	
30		The user is responsible for insur	
31		scored and interpreted.	ing that test data are accurately
39		scored and interpreted.	
39 40		Dlease use the following citation	for this macron
		Please use the following citation	
41			d Interpretation Program for the MMPI-2
44		Fake Bad Scale (FBS) [Compute	er software]. Hartford, CT: Author.
57			
58		The author thanks Drs. David Fo	ox and Paul Lees-Haley for their assistance.
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Too many t.

FBS Total Score

Too many blanks

If you have calculated the total score from another program, you can enter it directly. Otherwise, this score is taken automatically from the Scoring page of this program.

0

Suggested Cutoff Scores

Suggested cutoff scores are 24 for males and 26 for females (Source: Lees-Haley et al., Psychol Reports 1991;68:203-210)

Suggested cutoff score for detecting probable TBI malingerers is 21 (Source: Ross et al., J Clin Exper Neuropsychol 2004;26:115-124)

Suggested cutoff score for detecting definite TBI malingerers is 21 (Source: Larrabee, The Clin Neuropsychologist 2003;17:54-68)

Suggested cutoff score for malingering mild TBI is 20 (Source: Greiffenstein et al., J Clin Psychol 2002;58:1591-1600)

Suggested cutoff score for malingering severe TBI is 24 (Source: Greiffenstein et al., J Clin Psychol 2002;58:1591-1600)

Suggested cutoff scores for detecting malingered PTSD are 23 for males and 25 for females (Source: Lees-Haley, J Clin Psychol 1992;48:681-689)

Suggested cutoff scores for detecting malingered PTSD are 21 for males and 26 for females (Source: Greiffenstein et al., The Clin Neuropsychol 2004;18:573-590)

Suggested cutoff score for detecting malingered neuropsychological impairment is 22 (Source: Dearth et al., Arch Clin Neuropsychol 2005;20:95-110)

Suggested cutof score for detecting malingered severe mental illness in male inmates is 24-26 (Source: Iverson et al., Psychol Reports 2002; 90:131-136)

Distance from MMPI-2 Normative Sample

Note: All standard deviation values are positive unless noted otherwise.

If this person is male, their score is SD from the population mean and their T-score is If this person is female, their score is SD from the population mean and their T-score is

(Source: Greene, in Rogers, Clinical assessment of malingering and deception, New York: Guilford, 1997) In the MMPI-2 normative sample, of males and

of females received a score equal to or greater than (Source: Greene, personal communication to D. Tolin, March 1, 2005)

FBS is normally distributed in the normative sample: Males skewness = 0.52, kurtosis = 0.56; Females skewness = 0.57, kurtosis = 0.96

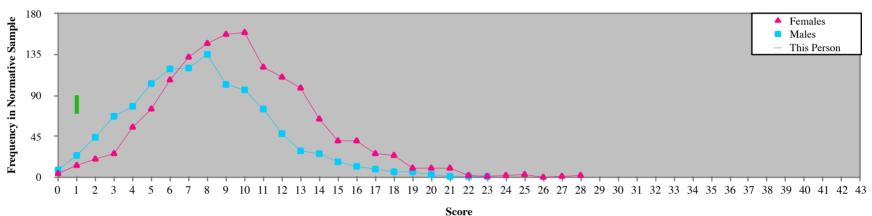
(Source: Greene, personal communication to D. Tolin, March 1, 2005) FBS is normally distributed in a sample of personal injury claimants: Males skewness = .015, kurtosis = -.496, Females skewness = .087, kurtosis = .024

(Source: Lees-Haley, personal communication to D. Tolin, March 20, 2005) FBS is normally distributed in a sample of severe TBI patients: Skewness = 0.52, kurtosis = -0.32

(Source: Ross, personal communication to D. Tolin, April 15, 2005)

SD from the mean of male personal injury litigants.

MMPI-2 Normative Sample (N = 2600)(Source: Greene, Personal Communication to D. Tolin, March 1, 2005)



Distance from Other Populations

SD from the mean of a sample of male medico-legal claimants. This score is This score is SD from the mean of a sample of female medico-legal claimants. This score is SD from the mean of a sample of 258 worker's compensation applicants. This score is SD from the mean of a sample of 88 psychiatric patients. This score is SD from the mean of a sample of 45 people on criminal probation.

This score is SD from the mean of a sample of 132 job applicants.

(Source: Fox, personal communication to D. Tolin, March 2 and October 7, 2005)

This score is SD from the mean of a sample of 100 patients with reported cognitive impairment who were not involved in litigation. This score is SD from the mean of a sample of 100 patients with reported cognitive impairment who were involved in litigation.

(Source: Meyers et al., Arch Clin Neuropsychol 2002; 17:157-169)

SD from the mean of female custody litigants and This score is SD from the mean of male custody litigants (no alleged child abuse). This score is SD from the mean of female custody litigants and SD from the mean of male custody litigants (alleged physical abuse). This score is SD from the mean of female custody litigants and SD from the mean of male custody litigants (alleged sexual abuse).

SD from the mean of female personal injury litigants and This score is (Source: Posthuma & Harper, Prof Psychol: Res & Pract 1998;29:437-443)

(Note: Gender-specific N's not reported. Custody litigants/no abuse N=80; custody litigants/alleged abuse N=108; personal injury N=95)

This score is SD from the mean of 492 personal injury litigants claiming impairment from physical or psychological trauma.

(Source: Lees-Haley, J Clin Psychol 1997; 53:745-755)

This score is SD from the mean of a sample of 120 psychiatric clinic patients who were involved in litigation. This score is SD from the mean of a sample of 208 psychiatric clinic patients who were not involved in litigation. SD from the mean of a sample of 43 control participants with no history of psychological disorder. This score is

(Source: Tsushima & Tsushima, Assessment 2001: 8:205-212)

This score is SD from the mean of a sample of 20 male medical patients being assessed for organ transplant.

SD from the mean of a sample of 25 male veterans in substance abuse treatment. This score is

(Source: Iverson et al., Psychol Reports 2002; 90:131-136)

Distance from Probable Malingering and Non-Malingering Groups

This score is SD from the mean of a sample of 25 personal injury litigants judged to be malingering (based on FBS \geq 20). This score is SD from the mean of a sample of 20 personal injury litigants judged to be credible (based on FBS < 20).

This score is SD from the mean of a sample of 16 medical outpatients instructed to simulate emotional distress from a motor vehicle accident.

a score of

Too many blan or higher meant that the person had a

This score is SD from the mean of a sample of 15 medical outpatients instructed to simulate emotional distress from toxic exposure. SD from the mean of a sample of 36 medical outpatients instructed to simulate emotional distress from job stress. This score is This score is SD from the total mean of 67 medical outpatients instructed to simulate emotional distress. (Source: Lees-Haley et al., Psychol Reports 1991;68:203-210) This score is SD from the mean of a sample of 59 TBI patients who are not seeking compensation. SD from the mean of a sample of 59 patients seeking compensation for mild TBI who scored poorly on a malingering test. This score is (Source: Ross et al., J Clin Exper Neuropsychol 2004;26:115-124) SD from the mean of 33 females with probable PTSD. This score is SD from the mean of males with probable PTSD and This score is SD from the mean of 26 males who appear to malinger PTSD and SD from the mean of 31 females who appear to malinger PTSD. (Source: Greiffenstein et al., The Clin Neuropsychol 2004;18:573-590) This score is SD from the mean of a sample of 64 personal injury litigants claiming non-PTSD psychological distress. This score is SD from the mean of a sample of 55 personal injury litigants appearing to malinger PTSD (e.g., trauma clearly did not meet DSM IIIR criterion A) (Source: Lees-Haley, J Clin Psychol 1992;48:681-689) This score is SD from the mean of a a sample of 33 people claiming neuropsychological impairment who scored poorly on a malingering test. (Source: Larrabee, Arch Clin Neuropsychol 2003;18:673-686) This score is SD from the mean of a sample of 24 definite neuropsychological malingerers. This score is SD from the mean of a sample of 17 definite neuropsychological malingerers. SD from the mean of a sample of 54 patients with moderate/severe TBI, psychiatric disorder, or mixed neurologic diagnoses This score is (Source: Larrabee, The Clin Neuropsychol 2003;17:410-425; additional data from this study found in Larrabee, Forensic Neuropsychology: A Scientific Approach, New York: Oxford, 2005 p. 128) SD from the mean of a sample of 23 TBI patients instructed to malinger TBI. This score is This score is SD from the mean of a sample of 23 TBI patients instructed to respond honestly. SD from the mean of a sample of 23 healthy volunteers instructed to malinger TBI. This score is This score is SD from the mean of a sample of 23 healthy volunteers instructed to respond honestly. (Source: Dearth et al., Arch Clin Neuropsychol 2005;20:95-110) This score is SD from the mean of a sample of 26 people claiming neuropsychological impairment who scored poorly on a malingering test. SD from the mean of a sample of 29 known TBI patients. This score is (Source: Larrabee, The Clin Neuropsychol 2003;17:54-68) This score is SD from the mean of a sample of 25 male minimum security prison inmates. SD from the mean of a sample of 25 male minimum security prison inmates instructed to malinger severe psychiatric problems. This score is (Source: Iverson et al., Psychol Reports 2002; 90:131-136) This score is SD from the mean of a sample of 42 patients with chronic psychiatric problems instructed to respond normally. This score is SD from the same sample of 42 psychiatric patients instructed to malinger severe psychiatric problems. (Source: Rogers et al., Assessment 1995; 2:81-89) This score is SD from the mean of a sample of 61 patients with PTSD (validity of diagnosis not checked). This score is SD from the mean of a sample of 35 college students instructed to malinger PTSD who were not coached. This score is SD from the mean of a sample of 29 college students instructed to malinger PTSD who were coached about PTSD symptoms. This score is SD from the mean of a sample of 30 college students instructed to malinger PTSD who were coached about MMPI-2 validity scales. SD from the mean of a sample of 37 college students instructed to malinger PTSD who were coached about PTSD and validity scales. This score is (Source: Bury & Bagby, Psychol Assess 2002; 14:472-484) This score is SD from the mean of a sample of 159 mild TBI plaintiffs with illogical symptom histories. This score is SD from the mean of a sample of 68 patients with documented moderate to severe TBI. (Source: Greiffenstein et al., J Clin Psychol 2002; 58:1591-1600) This score is SD from the mean of a sample of 48 patients with major depressive disorder. This score is SD from the mean of a sample of 23 mental health professionals instructed to malinger major depressive disorder. This score is SD from the mean of a sample of 50 psychiatric patients with conditions other than major depressive disorder. (Source: Bagby et al., Assessment 2000; 7:55-62) SD from the mean of a sample of 85 undergraduates instructed to malinger PTSD. This score is This score is SD from the mean of a sample of 64 outpatients with PTSD secondary to child sexual abuse. (Source: Elhai et al., Assessment 2001; 8: 221-236) Detection of Malingering vs. True Illness Sensitivity and Specificity In a comparison of mild TBI patients and patients seeking compensation for mild TBI who scored poorly on a malingering test, of probable malingerers obtained a score greater than or equal to of TBI patients scored below Too many h, and aansi h (Source: Ross et al., J Clin Exper Neuropsychol 2004;26:115-124) In a comparison of closed head injury patients and definite neuropsychological malingerers, of definite malingerers obtained a score greater than or equal to of TBI patients scored below (Source: Larrabee, The Clin Neuropsychol 2003;17:54-68) Positive and Negative Predictive Power These analyses vary according to the presumed base rate of malingering in the population. The interpretations here allow for the assumption of either a 25% or 50% base rate of malingering. In a comparison of 48 probable PTSD cases and 57 probable PTSD malingerers, Assuming a 50% base rate of malingering: Too many blan or higher meant that the person had a chance of being in the malingering group (females).

chance of being in the malingering group (males).

a score of Too many blan or lower meant that the person had a chance of being in the PTSD group (females). a score of Too many blan or lower meant that the person had a chance of being in the PTSD group (males). Assuming a 25% base rate of malingering: chance of being in the malingering group (females). a score of Too many blan or higher meant that the person had a Too many blan or higher meant that the person had a chance of being in the malingering group (males). a score of Too many blan or lower meant that the person had a chance of being in the PTSD group (females). a score of a score of Too many blan or lower meant that the person had a chance of being in the PTSD group (males). (Source: Greiffenstein et al., The Clin Neuropsychol 2004;18:573-590) *Notes: "Below range" means that this person scored lower than did anyone in the study sample. A 0% probability of being in the malingering group might be inferred. "Above range" means that this person scored higher than did anyone in the study sample. A 100% probability of being in the malingering group might be inferred.

References

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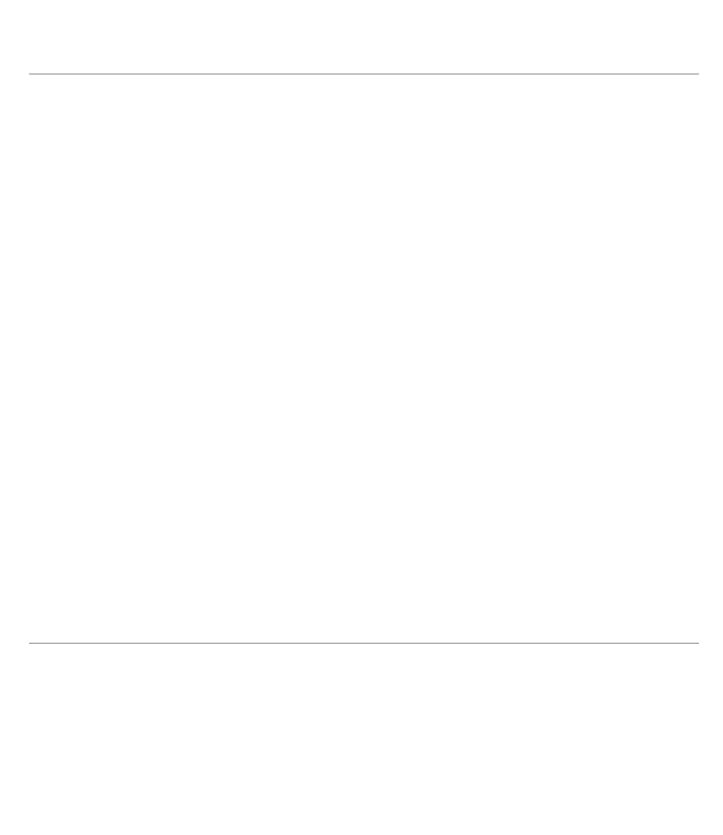
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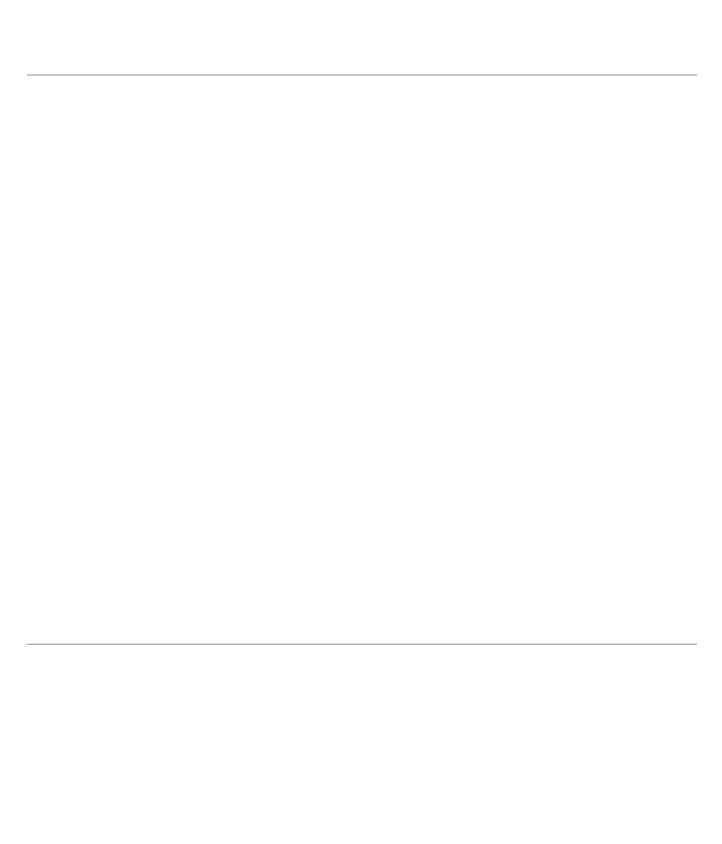
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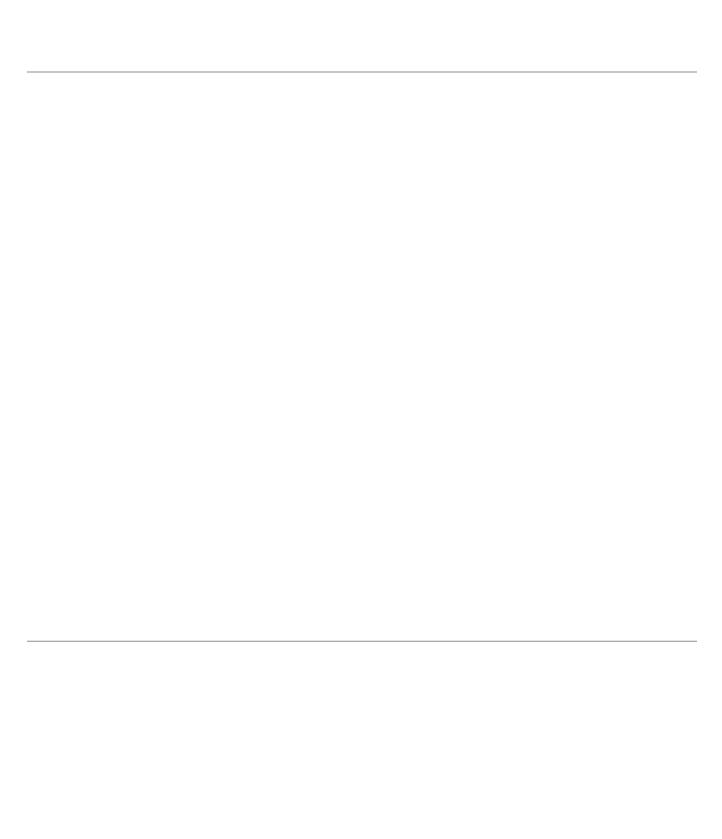
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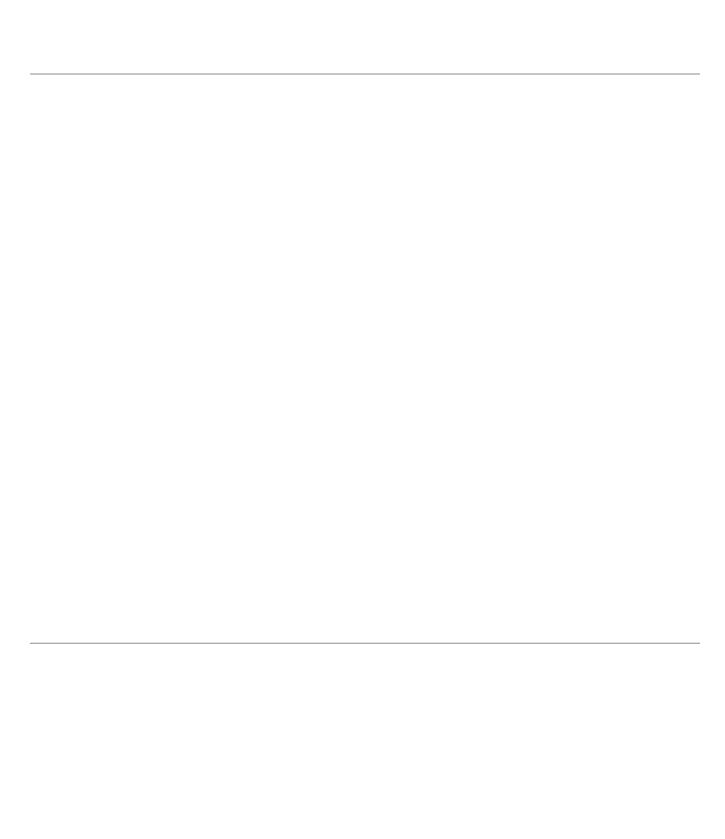
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Answer Key to the FBS:

Following are the MMPI-2 items and scored direction of answering for the Fake Bad Scale (FBS):

Add one point if marked True: 11, 18, 28, 30, 31, 39, 40, 44, 59, 111, 252, 274, 325, 339, 464, 46

Add one point if marked False: 12, 41, 57, 58, 81, 110, 117, 152, 164, 176, 224, 227, 248, 249, 25









Ross et al.			Greiffenstei	n et al.						
Score	Sensitivity	Specificity		PPP Female	S					
0	1	0	Base rate	0	1	2	3	4	5	6
1	1	0	0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
2	1	0	0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range
3	1	0		PPP Males						
4	1	0	Base rate	0	1	2	3	4	5	6
5	1	0	0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
6	1	0	0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range
7	1	0		NPP Female	s					
8	1	0.034	Base rate	0	1	2	3	4	5	6
9	1	0.051	0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
10	1	0.102	0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range
11	1	0.254		NPP Males						
12	1	0.322	Base rate	0	1	2	3	4	5	6
13	1	0.356	0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
14	1	0.475	0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range
15	1	0.559								
16	1	0.593								
17	1	0.61	Greene: Free	quencies in th	e MMPI2 No	rmative Samp	ole			
18	1	0.746		Males	Females	Cum_male	Cum_fem	Pct_male	Pct_fem	Inv_pct_mal
19	0.983	0.797	0	0	0	0	0	0.00%	0.00%	100.00%
20	0.949	0.547	1	0	0	0	0	0.00%	0.00%	100.00%
21	0.898	0.898	2	0	0	0	0	0.00%	0.00%	100.00%
22	0.881	0.915	3	8	3	8	3	0.70%	0.21%	99.30%
23	0.881	0.9449	4	8	4	16	7	1.41%	0.48%	98.59%
24	0.847	0.949	5	24	13	40	20	3.51%	1.37%	96.49%
25	0.814	0.949	6	44	20	84	40	7.38%	2.74%	92.62%
26	0.712	0.983	7	67	26	151	66	13.27%	4.51%	86.73%

27	0.661	1	8	78	55	229	121	20.12%	8.28%	79.88%
28	0.593	1	9	103	75	332	196	29.17%	13.41%	70.83%
29	0.508	1	10	119	107	451	303	39.63%	20.73%	60.37%
30	0.424	1	11	120	132	571	435	50.18%	29.75%	49.82%
31	0.407	1	12	135	147	706	582	62.04%	39.81%	37.96%
32	0.322	1	13	102	157	808	739	71.00%	50.55%	29.00%
33	0.203	1	14	96	159	904	898	79.44%	61.42%	20.56%
34	0.169	1	15	75	121	979	1019	86.03%	69.70%	13.97%
35	0.153	1	16	48	110	1027	1129	90.25%	77.22%	9.75%
36	0.102	1	17	29	98	1056	1227	92.79%	83.93%	7.21%
37	0.068	1	18	26	64	1082	1291	95.08%	88.30%	4.92%
38	0.034	1	19	17	40	1099	1331	96.57%	91.04%	3.43%
39	0.064	1	20	12	40	1111	1371	97.63%	93.78%	2.37%
40	0	1	21	9	26	1120	1397	98.42%	95.55%	1.58%
41	0	1	22	6	24	1126	1421	98.95%	97.20%	1.05%
42	0	1	23	6	10	1132	1431	99.47%	97.88%	0.53%
43	0	1	24	3	10	1135	1441	99.74%	98.56%	0.26%
			25	1	10	1136	1451	99.82%	99.25%	0.18%
Larrabee et a	ւլ.		26	1	2	1137	1453	99.91%	99.38%	0.09%
Score	Sensitivity	Specificity	27	1	1	1138	1454	100.00%	99.45%	0.00%
0	1	0	28		2	1138	1456	100.00%	99.59%	0.00%
1	1	0	29		3	1138	1459	100.00%	99.79%	0.00%
2	1	0	30		0	1138	1459	100.00%	99.79%	0.00%
3	1	0	31		1	1138	1460	100.00%	99.86%	0.00%
4	1	0	32		2	1138	1462	100.00%	100.00%	0.00%
5	1	0.034	33							0.00%
6	1	0.034	34							0.00%
7	1	0.034	35							0.00%
8	1	0.138	36							0.00%

9	1	0.138		37				0.00%
10	1	0.172		38				0.00%
11	1	0.207		39				0.00%
12	1	0.207		40				0.00%
13	1	0.276		41				0.00%
14	1	0.31		42				0.00%
15	1	0.448		43				0.00%
16	1	0.517	7	This Person				
17	0.962	0.552	Too r	nany bl	80			
18	0.923	0.552						
19	0.923	0.69						
20	0.923	0.793						
21	0.808	0.862						
22	0.808	0.862						
23	0.692	0.862						
24	0.615	0.862						
25	0.615	0.931						
26	0.538	0.966						
27	0.5	0.966						
28	0.5	0.966						
29	0.423	0.966						
30	0.385	0.966						
31	0.308	1						
32	0.192	1						
33	0.115	1						
34	0.115	1						
35	0.038	1						
36	0	1						

37	0	1					
38	0	1					
39	0	1					
40	0	1					
41	0	1					
42	0	1					
43	0	1					

7	8	9	10	11	12	13	14	15	16	17	18
Below range		Below range									Below range
											Below range
7	8	9	10	11	12	13	14	15	16	17	18
Below range											
Below range											
7	8	9	10	11	12	13	14	15	16	17	18
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19	20	21	22	23	24	25	26	27	28	29	30
			Below range					0.87	0.87	0.92	0.95
Below range	0.69	0.69	0.68	0.71	0.86						
10	•					2.5	•		•		
19			22	23	24		26	27	28	29	30
	Below range		0.67	0.67	0.67	0.67	0.67	0.65	0.78	0.87	1
Below range	Below range	0.42	0.42	0.42	0.42	0.42	0.42	0.38	0.54	0.69	1
19		21	22	23	24	25	26	27	28	29	30
Below range	0.82	0.78	0.72	0.64	0.61						
Below range	0.93	0.89	0.89	0.87	0.82						
19	20	21	22	23	24	25	26	27	28	29	30
Below range	Below range	0.83	0.83	0.83	0.83	0.83	0.65	0.66	0.63	0.63	0.59
Below range	Below range	0.94	0.94	0.94	0.94	0.94	0.85	0.84	0.84	0.84	0.81

Color						
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31	32	33	34	35	36	37	38	39	40	41	42
1	1	1	1	1	1	1	1	1		Above range	
1	1	1	1	1	1	1	1	1		Above range	
1	1	1	1	1	1	1	1	1		Tioove range	Tioove runge
31	32	33	34	35	36	37	38	39	40	41	42
Above range	Above range										
Above range	Above range										
31	32	33	34	35	36	37	38	39	40	41	42
0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	Above range	Above range
0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	Above range	Above range
31	32	33	34	35	36	37	38	39	40		42
											Above range
Above range	Above range										

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