

This article and any supplementary material should be cited as follows:

Fonda JR, Hunt PR, McGlinchey RE, Rudolph JL, Millberg WP, Reynolds MW, Yonan C. Identification of pseudobulbar affect symptoms in Veterans with possible traumatic brain injury. J Rehabil Res Dev. 2015;52(7): 839–50.

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Supplemental Tables

Table S1. Baseline Comorbid Conditions and Laboratory Measures, Stratified by Responder and PBA Symptom Status

	Total (n=4,282)	Non-respondents (n=3,196)	Respondent (n=758)	<u>CNS-LS Threshold of 13⁵</u>		<u>CNS-LS Threshold of 21⁵</u>		<u>PBA Screening Question⁶</u>	
				Positive (n=513)	Negative (n=224)	Positive (n=165)	Negative (n=572)	Positive (n=458)	Negative (n=147)
Comorbidities									
Cancer ¹	35 (0.8%)	21 (0.7%)	12 (1.6%)	< 11	< 11	0 (0%)	12 (2.0%)	< 11	< 11
Diabetes ²	97 (2.3%)	72 (2.3%)	22 (2.9%)	18 (3.5%)	< 11	< 11	17 (3.0%)	12 (2.6%)	< 11
Hyperlipidemia ³	660 (15.4%)	474 (14.8%)	155 (20.5%)	107 (20.9%)	43 (19.2%)	30 (18.2%)	120 (21.0%)	93 (20.3%)	33 (22.5%)
Hypertension ⁴	414 (9.7%)	283 (8.8%)	108 (14.3%)	77 (15.0%)	29 (13.0%)	19 (11.5%)	87 (15.2%)	69 (15.1%)	19 (12.9%)
Dementia	193 (4.5%)	147 (4.6%)	37 (4.9%)	24 (4.7%)	< 11	< 11	27 (4.7%)	20 (4.4%)	< 11
Thyroid disease	55 (1.3%)	37 (1.2%)	15 (2.0%)	12 (2.3%)	< 11	< 11	12 (2.1%)	< 11	< 11
Labs									
Cholesterol									
Total	191.6 (40.0)	192.0 (39.8)	191.2 (40.3)	192.9 (42.5)	187.5 (34.8)	193.9 (41.7)	190.8 (40.4)	190.5 (38.9)	188.3 (38.5)
HDL	44.61 (11.94)	44.53 (11.72)	44.80 (12.74)	44.94 (13.32)	44.78 (11.66)	45.73 (13.84)	44.66 (12.57)	45.56 (13.45)	45.23 (12.91)

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				Positive (n=513)	Negative (n=224)	Positive (n=165)	Negative (n=572)	Positive (n=458)	Negative (n=147)
LDL	117.5 (34.6)	118.4 (34.9)	114.7 (32.9)	114.3 (32.4)	115.1 (35.2)	115.4 (35.1)	114.3 (32.6)	112.5 (31.8)	116.0 (37.7)
Triglycerides	157.8 (133.9)	155.0 (127.2)	172.9 (163.3)	180.4 (180.4)	161.1 (120.9)	172.8 (147.6)	175.4 (170.5)	172.5 (140.3)	146.0 (109.9)
Hemoglobin A1c	5.68 (0.92)	5.68 (0.89)	5.79 (1.10)	5.86 (1.18)	5.67 (0.94)	5.91 (1.11)	5.77 (1.11)	5.76 (0.90)	5.65 (1.03)

This table presents the frequency and column percentage, unless otherwise noted; <11 = cell count less than 11.

CNS-LS Threshold: PBA symptom positive = CNS-LS \geq 13 (CNS-LS \geq 21), PBA symptom negative = CNS-LS<13 (CNS-LS<21)

PBA Screening Question: PBA symptom positive = Yes; PBA symptom negative = No

¹ Other than brain cancer; ² Diabetes: ICD-9 diagnostic code or current diabetes medication; ³ Hyperlipidemia: ICD-9 diagnostic code or current antilipemic agent

⁴ Hypertension: ICD-9 diagnostic code or current antihypertensive agent (alpha, beta, and calcium channel blockers; angiotensin-converting enzyme [ACE] inhibitor; angiotensin II receptor antagonists, and thiazide diuretics)

⁵ Number of positive and negative subjects in a row may not add to the total number of respondents due to missing data (item non-response) on the CNS-LS questionnaire.

⁶ Number of positive and negative subjects in a row may not add to the total number of respondents due to missing data (item non-response) or a response of “unsure.”

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Table S2. CNS-LS Responses for Each Item among Veterans who Responded “Yes” on the Single PBA Symptom Screening

Question (n=458)

	Applies Never (1)	Applies rarely (2)	Applies Occasionally (3)	Applies frequently (4)	Applies most of the time (5)	No Response
1. There are times when I feel fine one minute, and then I’ll become tearful the next over something small or for no reason at all.	21 (4.6%)	78 (17.0%)	189 (41.3%)	137 (29.9%)	33 (7.2%)	0 (0%)
2. Others have told me that I seem to become amused very easily or that I seem to become amused about things that really aren’t funny.	96 (21.0%)	97 (21.2%)	145 (31.7%)	95 (20.7%)	25 (5.5%)	0 (0%)
3. I find myself crying very easily.	49 (10.7%)	121 (26.4%)	134 (29.3%)	112 (24.5%)	38 (8.3%)	4 (0.9%)
4. I find that even when I try to control my laughter, I am often unable to do so.	100 (21.8%)	185 (40.4%)	100 (21.8%)	51 (11.1%)	15 (3.3%)	7 (1.5%)

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	Applies Never (1)	Applies rarely (2)	Applies Occasionally (3)	Applies frequently (4)	Applies most of the time (5)	No Response
5. There are times when I won't be thinking of anything happy or funny at all, but then I'll suddenly be overcome by funny or happy thoughts.	118 (25.8%)	151 (33.0%)	117 (25.6%)	56 (12.2%)	16 (3.5%)	0 (0%)
6. I find that even when I try to control my crying, I am often unable to do so.	72 (15.7%)	145 (31.7%)	133 (29.0%)	76 (16.6%)	30 (6.6%)	2 (0.4%)
7. I find that I am easily overcome by laughter	122 (26.6%)	155 (33.8%)	117 (25.6%)	50 (10.9%)	14 (3.1%)	0 (0%)