Supplementary Material #3

The Composite Autonomic Symptom Score (COMPASS-31)

COMPASS-31 score will be calculated as per Sletten 2012 (1).

<u>Items and response scales</u>

- 1. In the past year, have you ever felt faint, dizzy, "goofy", or had difficulty thinking soon after standing up from a sitting or lying position?
 - 1) Yes
 - 2) No (if you marked No, please skip to question 5)
- 2. When standing up, how frequently do you get these feelings or symptoms?
 - 1) Rarely
 - 2) Occasionally
 - 3) Frequently
 - 4) Almost Always
- 3. How would you rate the severity of these feelings or symptoms? 1
 - 1) Mild
 - 2) Moderate
 - 3) Severe
- 4. In the past year, have these feelings or symptoms that you have experienced:
 - 1) Gotten much worse
 - 2) Gotten somewhat worse
 - 3) Stayed about the same
 - 4) Gotten somewhat better
 - 5) Gotten much better
 - 6) Completely gone
- 5. In the past year, have you ever noticed color changes in your skin, such as red, white, or purple?
 - 1) Yes
 - 2) No (if you marked No, please skip to question 8)
- 6. What parts of your body are affected by these color changes? (Check all that apply)
 - 1) Hands
 - 2) Feet
- 7. Are these changes in your skin color:
 - 1) Getting much worse
 - 2) Getting somewhat worse
 - 3) Staying about the same
 - 4) Getting somewhat better
 - 5) Getting much better
 - 6) Completely gone
- 8. In the past 5 years, what changes, if any, have occurred in your general body sweating?
 - 1) I sweat much more than I used to
 - 2) I sweat somewhat more than I used to
 - 3) I haven't noticed any changes in my sweating
 - 4) I sweat somewhat less than I used to
 - 5) I sweat much less than I used to
- 9. Do your eyes feel excessively dry?
 - 1) Yes
 - 2) No

- 10. Does you mouth feel excessively dry?
 - 1) Yes
 - 2) No
- 11. For the symptom of dry eyes or dry mouth that you have had for the longest period of time, is this symptom:
 - 1) I have not had any of these symptoms
 - 2) Getting much worse
 - 3) Getting somewhat worse
 - 4) Staying about the same
 - 5) Getting somewhat better
 - 6) Getting much better
 - 7) Completely gone
- 12. In the past year, have you noticed any changes in how quickly you get full when eating a meal?
 - 1) I get full a lot more quickly now than I used to
 - 2) I get full more quickly now than I used to
 - 3) I haven't noticed any change
 - 4) I get full less quickly now than I used to
 - 5) I get full a lot less quickly now than I used to
- 13. In the past year, have you felt excessively full or persistently full (bloated feeling) after a meal?
 - 1) Never
 - 2) Sometimes
 - 3) A lot of the time
- 14. In the past year, have you vomited after a meal?
 - 1) Never
 - 2) Sometimes
 - 3) A lot of the time
- 15. In the past year, have you had a cramping or colicky abdominal pain?
 - 1) Never
 - 2) Sometimes
 - 3) A lot of the time
- 16. In the past year, have you had any bouts of diarrhea?
 - 1) Yes
 - 2) No (if you marked No, please skip to question 20)
- 17. How frequently does this occur?
 - 1) Rarely
 - 2) Occasionally
 - 3) Frequently _____ times per month
 - 4) Constantly
- 18. How severe are these bouts of diarrhea?
 - 1) Mild
 - 2) Moderate
 - 3) Severe
- 19. Are your bouts of diarrhea getting:
 - 1) Much worse
 - 2) Somewhat worse
 - 3) Staying the same
 - 4) Somewhat better
 - 5) Much better
 - 6) Completely gone

20.	In the p	past year, have you been constipated?			
	1)	Yes			
	2)	No (if you marked No, please skip to question 24)			
21.	How frequently are you constipated?				
	1)	Rarely			
	2)	Occasionally			
		Frequently times per month			
	,	Constantly			
22.	How se	evere are these episodes of constipation?			
		Mild			
		Moderate			
		Severe			
23.	-	constipation getting:			
		Much worse			
		Somewhat worse			
		Staying the same			
		Somewhat better			
	,	Much better			
		Completely gone			
24.		past year, have you ever lost control of your bladder function?			
		Never			
		Occasionally			
		Frequently times per month			
		Constantly			
25.	_	past year, have you had difficulty passing urine?			
		Never			
		Occasionally			
		Frequently times per month			
26		Constantly			
26.	_	past year, have you had trouble completely emptying your bladder?			
		Never			
		Occasionally			
		Frequently times per month			
27		Constantly			
21.	_	past year, without sunglasses or tinted glasses, has bright light bothered your eyes?			
		Never (if you marked Never, please skip to question 29)			
		Occasionally			
		Frequently Constantly			
28		evere is this sensitivity to bright light?			
20.		Mild			
	,	Moderate			
		Severe			
20	,	past year, have you had trouble focusing your eyes?			
۷).		Never (if you marked Never, please skip to question 31)			
		Occasionally			
		Frequently			
		Constantly			
30.		evere is this focusing problem?			
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- 1) Mild
- 2) Moderate
- 3) Severe
- 31. Is the most troublesome symptom with your eyes (i.e. sensitivity to bright light or trouble focusing) getting:
 - 1) I have not had any of these symptoms
 - 2) Much worse
 - 3) Somewhat worse
 - 4) Staying about the same
 - 5) Somewhat better
 - 6) Much better
 - 7) Completely gone

Scoring algorithm

Domain	Item	Answer	Points
Orthostatic Intolerance	1	1	1
		2	0
	2	1	0
		2	1
		3	2
			3
	3	4 1	1
		2	2
		3	3
	4	1	3
		2	2
		3	1
		4-6	0
Vasomotor	5	1	1
		2	0
	6	1	1
		2	1
	7	1	3
		2	2
		3	1
		4-6	0
Secretomotor	8	1	1
		2	0
		3	0
		4	1
		5	2
		6	0
	9	1	1
		2	0
	10	1	1
		2	0
	11	1	0
		2	3
		3	
		3 4	2

		5-7	0
Gastrointestinal	12	1	2
		2	1
		3-5	0
	13	1	0
		2	1
		3	2
	14	1	0
		2	1
		3	2
	15	1	0
		2	1
		3	2
	16	1	1
		2	0
	17	1	0
		2	1
		3	2
		4	3
	18	1	1
		2	2
		3	3
	19	1	3
		2	2
		3	1
		4-6	0
	20	1	1
		2	0
	21	1	0
		2	1
		3	2
		4 1	3
	22		
		2	2
	22	3	3
	23	2	3
		3	2 1
		4-6	
Bladder	24	1	0
DIAUUCI	۷4	2	0
		3	2
		4	3
	25	1	0
	23		1
		3	2
		4	2 3
	26	1	0
	20	2	1
		3	2
		4	3
	ı		

Pupillomotor	27	1	0
		2	1
		3	2
		4	3
	28	1	1
		2	2
		3	3
	29	1	0
		2	1
		3	2
		4	3
	30	1	1
		2	2
		3	3
	31	1	0
		2	3
		3	2
		4	1
		5-7	0

Calculation of COMPASS-31-score

- 1. Orthostatic Intolerance-score: Sum of items 1-4 multiplied by 4
- 2. Vasomotor-score: Sum of items 5-7 multiplied by 0.8333
- 3. Secretomotor-score: Sum of items 8-11 multiplied by 2.1428571
- 4. Gastrointestinal-score: Sum of items 12-23 multiplied by 0.8928571
- 5. Bladder-score: Sum of items 24-26 multiplied by 1.111
- 6. Pupillomotor-score: Sum of items 27-31 multiplied by 0.333
- 7. COMPASS-31-score: Sum of all 6 domain scores

References:

1. Sletten DM, Suarez GA, Low PA, Mandrekar J, Singer W. COMPASS 31: a refined and abbreviated Composite Autonomic Symptom Score. Mayo Clin Proc [Internet]. 2012 Dec [cited 2019 Sep 27];87(12):1196–201. Available from:

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