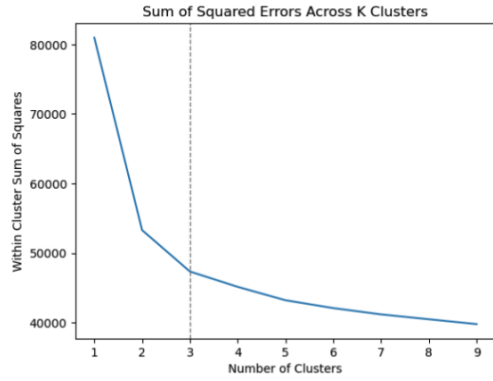


# Supplementary Materials

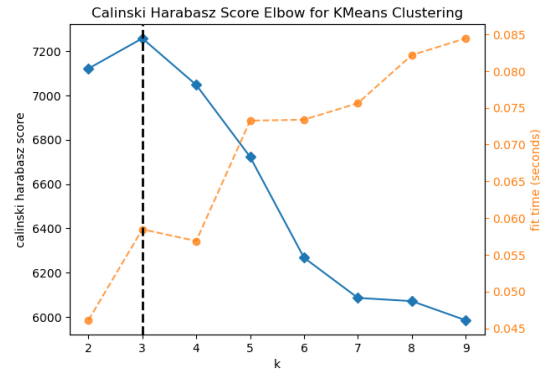
## Item overview

- **DASS Anxiety Items**
  2. I was aware of dryness of my mouth.
  4. I experienced breathing difficulty (eg, excessively rapid breathing, breathlessness in the absence of physical exertion).
  7. I had a feeling of shakiness (eg, legs going to give way).
  9. I found myself in situations that made me so anxious I was most relieved when they ended.
  15. I had a feeling of faintness.
  19. I perspired noticeably (eg, hands sweaty) in the absence of high temperatures or physical exertion.
  20. I felt scared without any good reason.
  23. I had difficulty in swallowing.
  25. I was aware of the action of my heart in the absence of physical exertion (eg, sense of heart rate increase, heart missing a beat).
  28. I felt I was close to panic.
  30. I feared that I would be "thrown" by some trivial but unfamiliar task.
  36. I felt terrified.
  40. I was worried about situations in which I might panic and make a fool of myself.
  41. I experienced trembling (eg, in the hands).
- **DASS Depression Items**
  3. I couldn't seem to experience any positive feeling at all.
  5. I just couldn't seem to get going.
  10. I felt that I had nothing to look forward to.
  13. I felt sad and depressed.
  16. I felt that I had lost interest in just about everything.
  17. I felt I wasn't worth much as a person.
  21. I felt that life wasn't worthwhile.
  24. I couldn't seem to get any enjoyment out of the things I did.
  26. I felt down-hearted and blue.
  31. I was unable to become enthusiastic about anything.
  34. I felt I was pretty worthless.
  37. I could see nothing in the future to be hopeful about.
  38. I felt that life was meaningless.
  42. I found it difficult to work up the initiative to do things.
- **DASS Stress Items**
  1. I found myself getting upset by quite trivial things.
  6. I tended to over-react to situations.
  8. I found it difficult to relax.
  11. I found myself getting upset rather easily.
  12. I felt that I was using a lot of nervous energy.
  14. I found myself getting impatient when I was delayed in any way (eg, elevators, traffic lights, being kept waiting).
  18. I felt that I was rather touchy.
  22. I found it hard to wind down.
  27. I found that I was very irritable.
  29. I found it hard to calm down after something upset me.
  32. I found it difficult to tolerate interruptions to what I was doing.
  33. I was in a state of nervous tension.
  35. I was intolerant of anything that kept me from getting on with what I was doing.
  39. I found myself getting agitated.
- **PCL Intrusion Items**
  1. Repeated, disturbing memories, thoughts, or images of a stressful experience from the past?
  2. Repeated, disturbing dreams of a stressful experience from the past?
  3. Suddenly acting or feeling as if a stressful experience were happening again (as if you were reliving it)?
  4. Feeling very upset when something reminded you of a stressful experience from the past?
  5. Having physical reactions (e.g., heart pounding, trouble breathing, or sweating) when something reminded you of a stressful experience from the past?
- **PCL Avoidance Items**
  6. Avoid thinking about or talking about a stressful experience from the past or avoid having feelings related to it?
  7. Avoid activities or situations because they remind you of a stressful experience from the past?
- **PCL Numbing Items**
  8. Trouble remembering important parts of a stressful experience from the past?
  9. Loss of interest in things that you used to enjoy?
  10. Feeling distant or cut off from other people?
  11. Feeling emotionally numb or being unable to have loving feelings for those close to you?
  12. Feeling as if your future will somehow be cut short?
- **PCL Hyperarousal Items**
  13. Trouble falling or staying asleep?
  14. Feeling irritable or having angry outbursts?
  15. Having difficulty concentrating?
  16. Being "super alert" or watchful on guard?
  17. Feeling jumpy or easily startled?

(a) Elbow method



(b) Calinski-Harabasz



(c) Silhouette plots

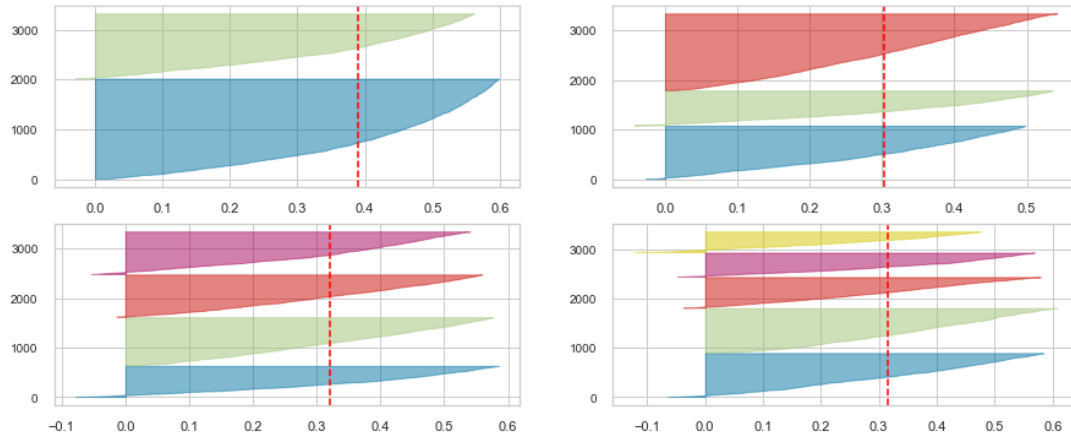


Figure S1: Comparison of stopping methods to identify the optimal  $k$ : (a) Elbow method, (b) Calinski-Harabasz index, and (c) Silhouette plots.

Notes: The elbow, Calinski-Harabasz, and silhouette plots were generated with KELbowVisualizer and SilhouetteVisualizer from the Yellowbrick library (Bengfort & Bilbro, 2019).

(a): Elbow method indicates that a 2- or 3-cluster solution is optimal based on the within cluster sum of squares

(b): Calinski-Harabasz score peaks at  $k = 3$

(c): Silhouette scores for 2-cluster (top left), 3-cluster (top right), 4-cluster (bottom left), and 5-cluster (bottom right) solutions. Silhouette scores range from -1 (worst) to 1 (best). When determining the optimal  $k$ , weight is placed on the highest silhouette score (red dashed line), fewest negative scores, and most even cluster sizes, indicated by the height of each color on each y-axis. The colors are standard output of the SilhouetteVisualizer and are only meant to distinguish each  $k$ .

Table S1: Severity clusters descriptives and posthoc pairwise comparisons

Variable	Mild <sup>a</sup>	Moderate <sup>b</sup>	Severe <sup>c</sup>	Mild <sup>a</sup> vs Moderate <sup>b</sup>		Mild <sup>a</sup> vs Severe <sup>c</sup>		Severe <sup>c</sup> vs Moderate <sup>b</sup>		Posthoc pairwise results
	N=1194 (36.1%)	N=1157 (35.0%)	N=956 (28.9%)	<i>p</i>	FDR <i>p</i>	<i>p</i>	FDR <i>p</i>	<i>p</i>	FDR <i>p</i>	
Sex (male)	1093 (91.5%)	1085 (93.8%)	906 (94.8%)	0.0458	0.0508	0.0047	0.0053	0.3787	0.3896	a<c
Age	34.0 (29.0–43.0)	36.0 (30.0–45.0)	41.0 (32.0–48.0)	0.0015	0.0017	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Civil status (single)	299 (25.0%)	368 (31.8%)	341 (35.7%)	0.0003	0.0004	<0.0001	<0.0001	0.0679	0.0730	a<b,c
Children (yes)	685 (57.4%)	668 (57.7%)	626 (65.5%)	0.8907	0.8907	0.0002	0.0002	0.0003	0.0004	a,b<c
Unemployed	62 (5.2%)	193 (16.7%)	279 (29.2%)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Self-rated health	3.0 (2.0–3.0)	3.0 (3.0–4.0)	4.0 (3.0–4.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Psychoanaleptica	30 (6.6%)	149 (25.3%)	222 (36.3%)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Psycholeptica	40 (8.8%)	124 (21.1%)	197 (32.2%)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Excessive alcohol intake	366 (30.7%)	436 (37.7%)	403 (42.2%)	0.0004	0.0005	<0.0001	<0.0001	0.0407	0.0456	a<b<c
Current drug usage	111 (9.3%)	199 (17.2%)	186 (19.5%)	<0.0001	<0.0001	<0.0001	<0.0001	0.2003	0.2060	a<b,c
Suicidal history	46 (3.9%)	102 (8.8%)	238 (25.0%)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Probable childhood ADHD	186 (15.6%)	245 (21.2%)	173 (18.1%)	0.0006	0.0007	0.1365	0.1424	0.0848	0.0898	a<b
Exposed to war	771 (64.6%)	890 (76.9%)	770 (80.5%)	<0.0001	<0.0001	<0.0001	<0.0001	0.0494	0.0539	a<b,c
PCL Intrusion	6.0 (5.0–8.0)	11.0 (8.0–14.0)	19.0 (17.0–22.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
PCL Avoidance	2.0 (2.0–3.0)	4.0 (3.0–6.0)	8.0 (6.0–9.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
PCL Numbing	8.0 (6.0–10.0)	15.0 (13.0–17.0)	20.0 (17.0–22.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
PCL Hyperarousal	10.0 (8.0–12.0)	17.0 (15.0–19.0)	22.0 (20.0–24.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
DASS Anxiety	3.0 (1.0–6.0)	10.0 (6.0–14.0)	20.0 (16.0–26.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
DASS Depression	7.0 (3.0–12.0)	19.0 (14.0–26.0)	28.0 (22.0–35.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
DASS Stress	10.0 (6.0–15.0)	20.0 (16.0–25.0)	29.0 (24.0–34.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
PCL total score	28.0 (23.0–33.0)	48.0 (43.0–53.0)	67.0 (63.0–72.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Probable PTSD diagnosis	44 (3.7%)	697 (60.2%)	950 (99.4%)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Total traumas	9.0 (5.0–15.0)	14.0 (8.0–22.0)	17.0 (10.0–28.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c
Total unique traumas	4.0 (3.0–6.0)	6.0 (4.0–8.0)	7.0 (4.0–9.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a<b<c

Notes: Values are presented as N(%) or median(IQR). PCL Avoidance refers to PCL items 6-7, PCL Numbing refers to PCL items 8-12.

Abbreviations: DASS = Depression Anxiety Stress Scales, PCL = PTSD Checklist, FDR = False discovery rate.

*p*-values: Posthoc pairwise *p*-values, listed in columns "FDR *p*", are adjusted for 72 comparisons.

Table S2: Symptom profile descriptives and posthoc pairwise comparisons

Variable	Tension <sup>a</sup> N=913 (27.6%)	Intrusion/ Avoidance <sup>b</sup> N=1518 (45.9%)	Anhedonia <sup>c</sup> N=876 (26.5%)	Tension <sup>a</sup> vs Intrusion/Avoidance <sup>b</sup> <i>p</i> FDR <i>p</i>		Tension <sup>a</sup> vs Anhedonia <sup>c</sup> <i>p</i> FDR <i>p</i>		Anhedonia <sup>c</sup> vs Intrusion/Avoidance <sup>b</sup> <i>p</i> FDR <i>p</i>		Posthoc pairwise results
Age	35.0 (30.0–44.0)	38.0 (30.0–47.0)	35.0 (29.0–44.0)	<0.0001	<0.0001	0.5698	0.6293	<0.0001	<0.0001	b>a,c
Civil status (single)	171 (18.7%)	490 (32.3%)	347 (39.6%)	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	0.0007	a<b<c
Children (yes)	599 (65.6%)	930 (61.3%)	450 (51.4%)	0.0354	0.0482	<0.0001	<0.0001	<0.0001	<0.0001	a>b>c
Unemployed (yes)	122 (13.4%)	258 (17.0%)	162 (18.5%)	0.0197	0.0272	0.0037	0.0059	0.3833	0.4442	a<b,c
Self-rated health	3.0 (3.0–4.0)	3.0 (2.0–4.0)	3.0 (3.0–4.0)	0.0220	0.0303	<0.0001	<0.0001	<0.0001	<0.0001	b<a<c
Psychoanaleptica	88 (18.4%)	192 (26.0%)	121 (27.6%)	0.0026	0.0045	0.0012	0.0021	0.5923	0.6293	a<b,c
Excessive alcohol intake	312 (34.2%)	531 (35.0%)	362 (41.3%)	0.7181	0.7475	0.0021	0.0037	0.0023	0.0039	a,b<c
Current drug usage	125 (13.7%)	202 (13.3%)	169 (19.3%)	0.8357	0.8357	0.0017	0.0030	0.0001	0.0003	a,b<c
Suicidal history	85 (9.4%)	199 (13.2%)	102 (11.7%)	0.0061	0.0089	0.1325	0.1648	0.3188	0.3797	a<b
Probable childhood ADHD	184 (20.2%)	236 (15.6%)	184 (21.0%)	0.0045	0.0072	0.6989	0.7275	0.0009	0.0017	b<a,c
Exposed to war	707 (77.4%)	1097 (72.3%)	627 (71.6%)	0.0055	0.0083	0.0052	0.0081	0.7525	0.7675	a>b,c
PCL Intrusion	10.0 (7.0–15.0)	14.0 (8.0–20.0)	9.0 (6.0–13.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	b>a>c
PCL Avoidance	4.0 (2.0–6.0)	5.0 (3.0–8.0)	4.0 (2.0–6.0)	<0.0001	<0.0001	0.0602	0.0788	<0.0001	<0.0001	b>a,c
PCL Numbing	12.0 (9.0–16.0)	12.0 (8.0–18.0)	17.0 (14.0–20.0)	0.5862	0.6293	<0.0001	<0.0001	<0.0001	<0.0001	a,b<c
PCL Hyperarousal	18.0 (14.0–22.0)	14.0 (9.0–20.0)	16.0 (12.0–20.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a>c>b
DASS Depression	14.0 (8.0–20.0)	14.0 (5.0–25.0)	25.0 (19.0–33.0)	0.1014	0.1292	<0.0001	<0.0001	<0.0001	<0.0001	a,b<c
DASS Stress	22.0 (16.0–29.0)	15.0 (8.0–25.0)	20.0 (13.0–27.0)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	a>c>b

Notes: Values are presented as N(%) or median(IQR). PCL Avoidance refers to PCL items 6-7, PCL Numbing refers to PCL items 8-12.

Abbreviations: DASS = Depression Anxiety Stress Scales, PCL = PTSD Checklist, FDR = False discovery rate.

*p*-values: Posthoc pairwise *p*-values, listed in columns "FDR *p*", are adjusted for 51 comparisons.

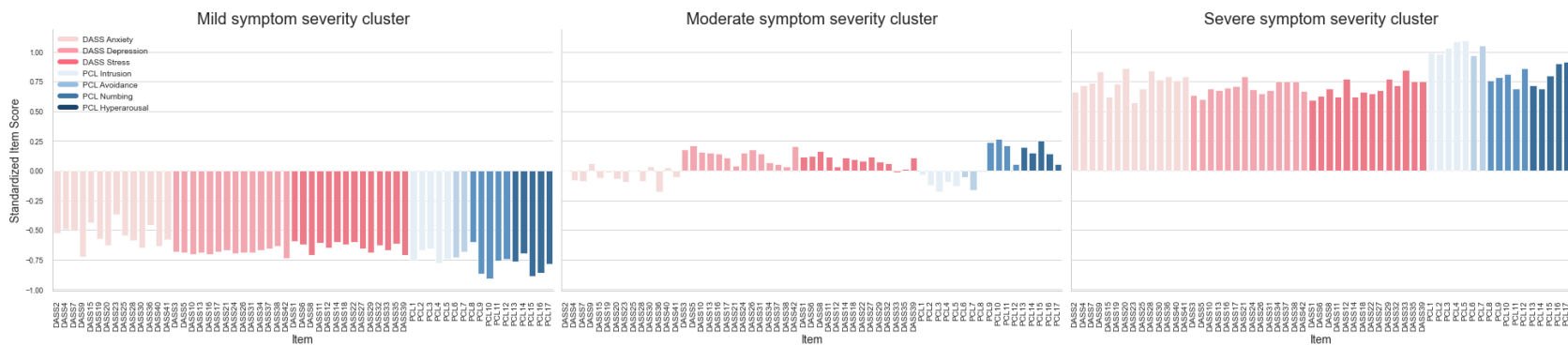


Figure S2: Standardized item scores for each severity cluster

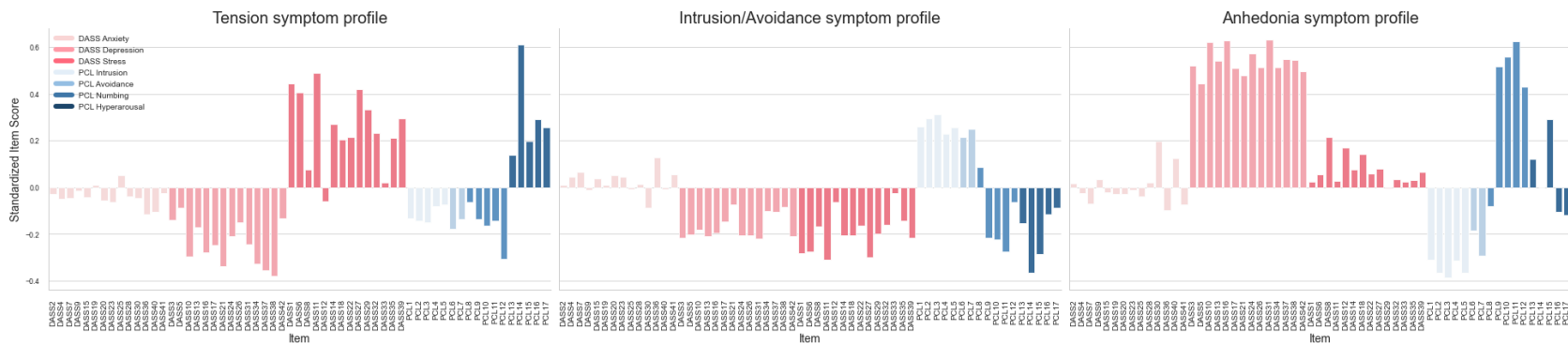


Figure S3: Standardized item scores for each symptom profile

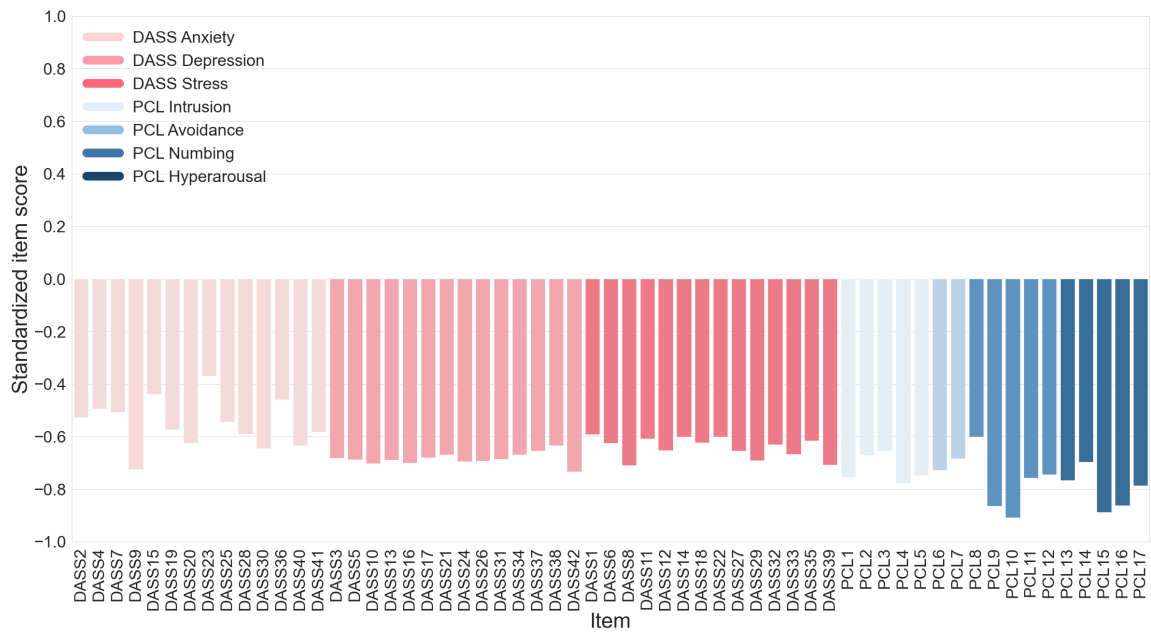


Figure S4: Mild symptom severity cluster

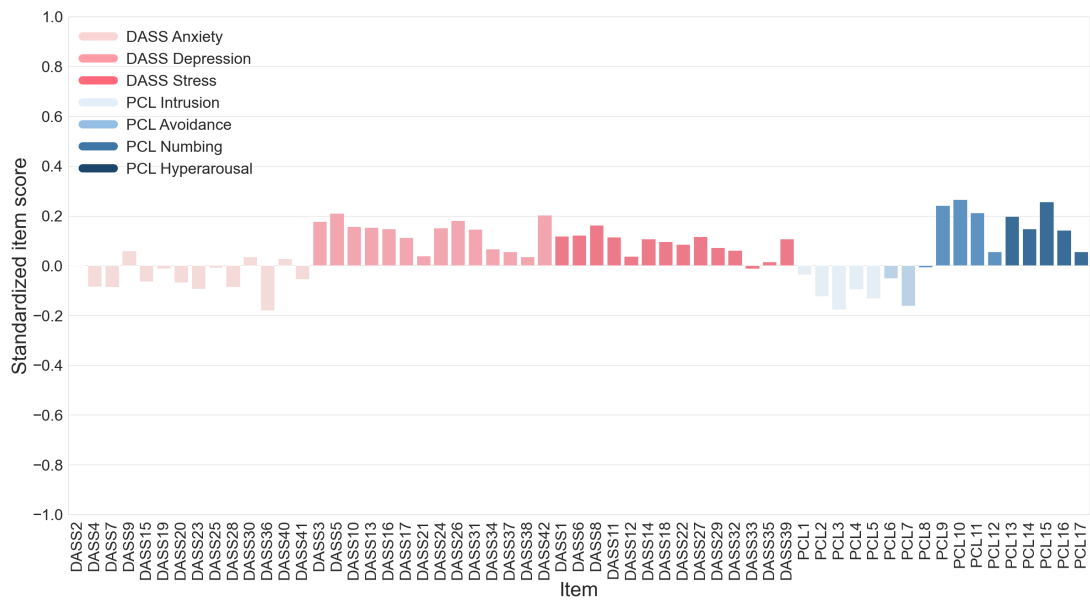


Figure S5: Moderate symptom severity cluster

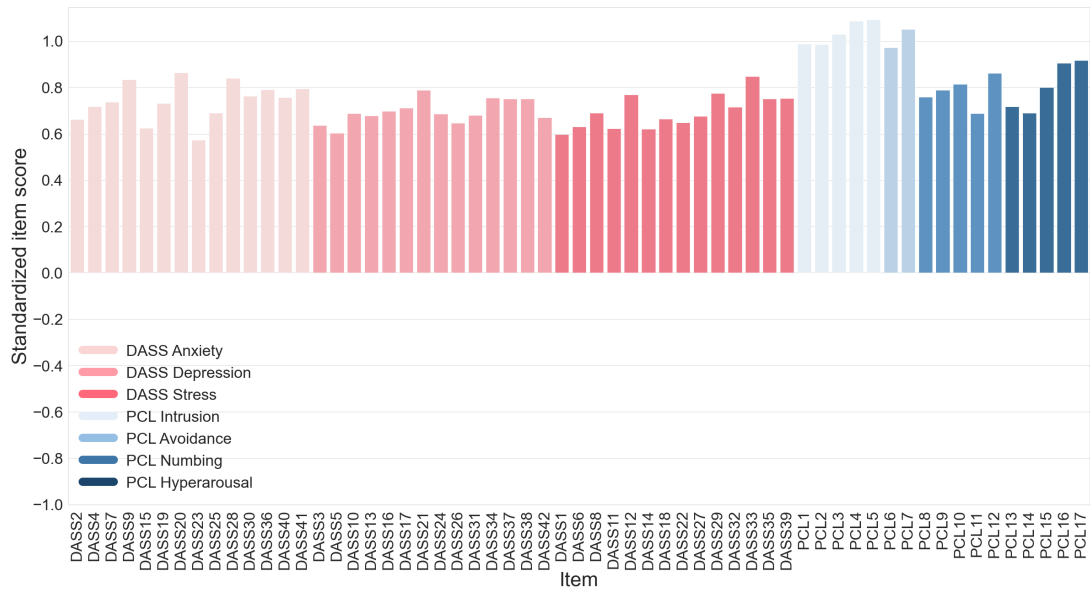


Figure S6: Severe symptom severity cluster

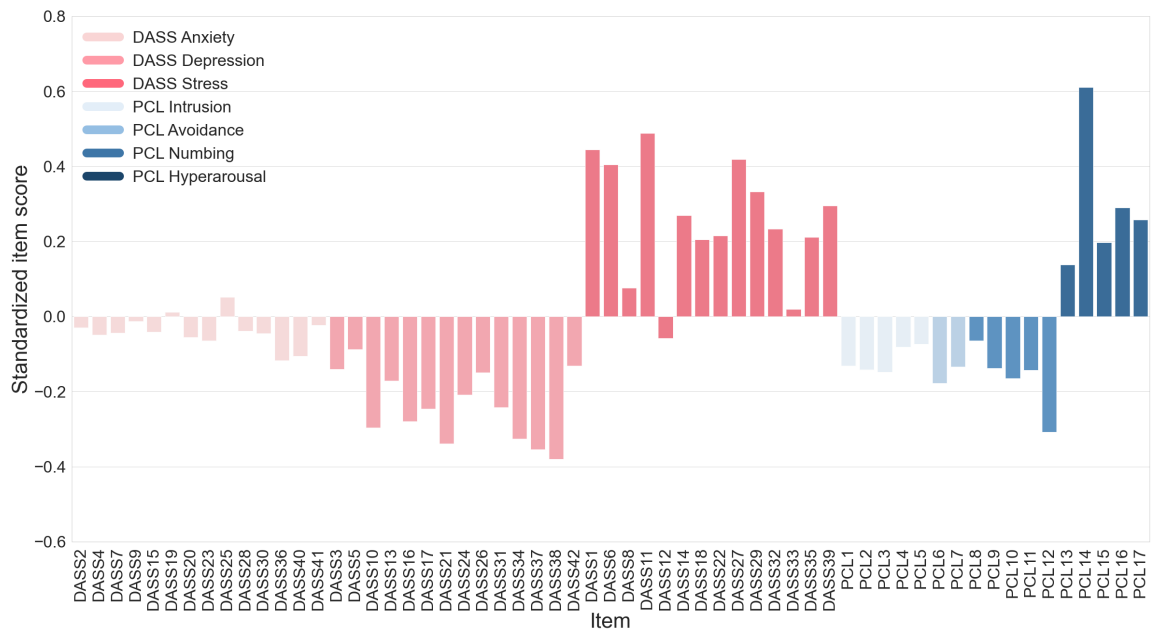


Figure S7: Tension symptom profile



Figure S8: Intrusion/Avoidance symptom profile

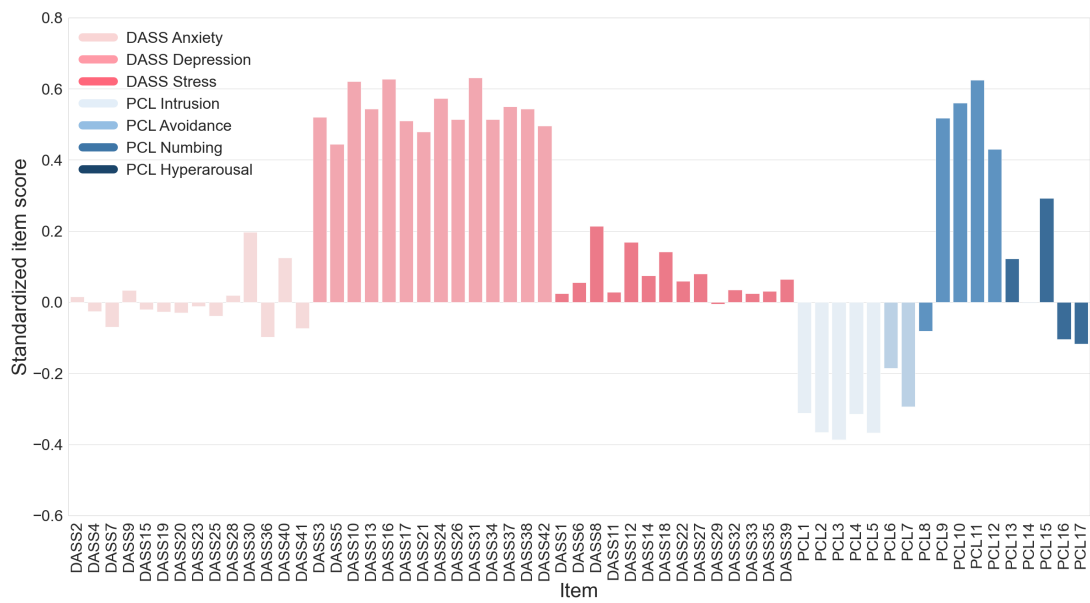


Figure S9: Anhedonia symptom profile