

Investigating differential item functioning among borderline personality disorder diagnostic criteria and internalizing/externalizing domains based on sexual orientation: Supplemental Materials

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Baseline Model fit

With Symptom-Level Impairment and Impairment

Factor models for BPD criteria indicated showed similarly good fit with and without symptom-level impairment. However, several items failed to load onto internalizing and externalizing factors for the SM group specifically, evidenced by near zero or negative loading magnitudes and non-significant Wald test values for the respective loadings. The magnitude of the BPD item factor loadings were quite low and highly variable for SM ($M\lambda = .09$, $SD\lambda = .1$) and non-SM ($M\lambda = .11$, $SD\lambda = .28$) groups for externalizing. Like the externalizing findings, the magnitude of the factor loadings for BPD items in relation to latent internalizing were quite low and highly variable for SM ($M\lambda = .11$, $SD\lambda = .15$) and non-SM ($M\lambda = .19$, $SD\lambda = .23$) individuals.

Discrimination DIF Testing

With Symptom-Level Impairment

Several items showed evidence of DIF when symptom-level impairment was considered, evidenced by false discovery rate corrected DIFFTEST values (see Table 1). These results are challenging to interpret, as the majority of differences in discrimination parameters for SM compared to non-SM groups compared a significant ($p < .05$) discrimination parameter in the non-SM group to a non-significant discrimination parameter in the SM group. This may be due to the smaller sample size of the symptom-level impairment analyses, and given that the items were less endorsed in the SM group, their relationships to latent internalizing and externalizing were more variable. This is supported in the results examining the factor loadings for the BPD items with symptom-level impairment to internalizing and externalizing. This leads us to believe the discrimination models tended to compare relatively poor discriminability in the non-SM group with next-to-zero discriminability in the SM group. We see this as evidence that BPD items with symptom-level impairment were weak indicators of latent internalizing and externalizing domains, and that the DIFFTEST flagged differences in already poorly fitting models as opposed to substantive, interpretable differences in discrimination parameters across SM status. We report the discrimination results with symptom-level impairment below.

Internalizing. Unstable relationships, impulsive sex, and impulsive shopping/gambling more poorly discriminated across internalizing levels in non-SM relative to SM individuals. The inverse was true for efforts to avoid abandonment, sudden changes in identity, identity disturbance 3, and emptiness which more poorly discriminated across internalizing levels in SM relative to non-SM. Discrimination parameters were significant in the SM group for sudden changes in identity, identity disturbance 3, and emptiness. Preventing abandonment, unstable relationships, impulsive sex, and impulsive shopping/gambling did not have significant discrimination parameters.

Externalizing. Preventing abandonment and impulsive sex more poorly discriminated across externalizing levels in non-SM relative to SM; however, the inverse was true for identity disturbance 2, impulsive behavior, and deliberate self-harm, which more poorly discriminated

across externalizing levels in SM relative to non-SM. All discrimination parameters were non-significant in the SM group, with the exception of impulsive sex.

Difficulty DIF Testing

Stratification by Sex

Internalizing. In internalizing models, difficulty parameters that showed evidence of DIF were most prominent in women, with 11/18 BPD items showing evidence of DIF for difficulty (see Table S8). In men, only impulsive sex showed evidence of difficulty DIF.

Externalizing. In externalizing models, the inverse pattern of results was observed. Difficulty parameters that showed evidence of DIF were most prominent in men, with 11/18 BPD items showing evidence of DIF (see Table S9). In women, only 5 items showed evidence of difficulty DIF: impulsive sex, suicide ideation/attempt, non-suicidal self-injury, affective lability, and concerns about abandonment.

Table S1. *Constrained model fit indices for internalizing and externalizing without symptom-level impairment*

Title	Internalizing					Externalizing				
	χ^2	CFI	TLI	RMSEA [90% CI]	SRMR	χ^2	CFI	TLI	RMSEA [90% CI]	SRMR
Abandonment 1 (frantic concerns of abandonment)	510.504	0.98	0.98	0.019 [0.017, 0.02]	0.06	96.217	0.995	0.995	0.011 [0.009, 0.014]	0.032
Abandonment 2 (preventing abandonment)	494.875	0.979	0.978	0.018 [0.017, 0.02]	0.061	89.284	0.995	0.995	0.011 [0.008, 0.013]	0.036
Unstable Relationships	537.457	0.978	0.978	0.019 [0.018, 0.021]	0.061	138.784	0.992	0.991	0.015 [0.012, 0.017]	0.037
Identity Disturbance 1 (sudden changes)	508.142	0.979	0.979	0.018 [0.017, 0.02]	0.06	102.737	0.994	0.994	0.012 [0.009, 0.014]	0.033
Identity Disturbance 2 (changes with others)	483.669	0.98	0.979	0.018 [0.017, 0.02]	0.059	104.917	0.994	0.993	0.012 [0.01, 0.015]	0.038
Identity Disturbance 3 (big differences)	487.973	0.979	0.979	0.018 [0.017, 0.02]	0.06	106.526	0.994	0.993	0.012 [0.01, 0.015]	0.037
Identity Disturbance 4 (life changes)	505.081	0.979	0.979	0.018 [0.017, 0.02]	0.06	128.579	0.993	0.992	0.014 [0.011, 0.016]	0.04
Impulsivity 1 (impulsive behavior)	496.842	0.979	0.979	0.018 [0.017, 0.02]	0.06	134.083	0.993	0.993	0.014 [0.012, 0.017]	0.038
Impulsivity 2 (impulsive sex)	523.984	0.976	0.976	0.019 [0.017, 0.02]	0.06	105.322	0.995	0.995	0.012 [0.01, 0.015]	0.029
Impulsivity 3 (impulsive shopping/ gambling)	512.361	0.978	0.977	0.019 [0.017, 0.02]	0.06	81.112	0.996	0.996	0.01 [0.007, 0.013]	0.027
Suicidality 1 (self-injury/ suicide attempt)	517.618	0.978	0.978	0.019 [0.017, 0.02]	0.064	108.287	0.994	0.993	0.012 [0.01, 0.015]	0.036
Suicidality 2 (deliberate self-harm)	510.97	0.978	0.977	0.019 [0.017, 0.02]	0.062	93.012	0.995	0.995	0.011 [0.009, 0.014]	0.027
Affective Lability	510.581	0.981	0.98	0.019 [0.017, 0.02]	0.06	154.921	0.99	0.99	0.015 [0.013, 0.018]	0.04
Emptiness	529.287	0.981	0.981	0.019 [0.018, 0.021]	0.063	135.696	0.992	0.992	0.014 [0.012, 0.017]	0.041
Anger 1 (temper)	516.918	0.979	0.978	0.019 [0.017, 0.02]	0.06	169.618	0.989	0.989	0.016 [0.014, 0.019]	0.045
Anger 2 (physical)	516.999	0.978	0.978	0.019 [0.017, 0.02]	0.06	171.428	0.99	0.99	0.017 [0.014, 0.019]	0.042

Anger 3 (frustrability)	513.363	0.979	0.979	0.019 [0.017, 0.02]	0.06	183.03	0.988	0.988	0.017 [0.015, 0.02]	0.046
Paranoia	545.531	0.98	0.98	0.019 [0.018, 0.021]	0.061	152.159	0.991	0.99	0.015 [0.013, 0.018]	0.041

χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; CI = 90% confidence interval; SRMR = standardized root mean square residual.

Table S2. *Constrained model fit indices for internalizing and externalizing with symptom-level impairment*

Title	χ^2	Internalizing				χ^2	Externalizing			
		CFI	TLI	RMSEA	SRMR		CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	479.058	0.978	0.977	0.018	0.061	54.03	0.998	0.998	0.007	0.02
Abandonment 2 (preventing abandonment)	487.697	0.978	0.977	0.018	0.064	77.535	0.996	0.996	0.01	0.038
Unstable Relationships	503.539	0.977	0.977	0.018	0.06	65.183	0.997	0.997	0.008	0.024
Identity Disturbance 1 (sudden changes)	501.117	0.978	0.978	0.018	0.06	64.059	0.997	0.997	0.008	0.024
Identity Disturbance 2 (changes with others)	469.192	0.978	0.978	0.018	0.059	66.755	0.997	0.997	0.009	0.026
Identity Disturbance 3 (big differences)	496.416	0.977	0.977	0.018	0.061	54.758	0.998	0.998	0.007	0.024
Identity Disturbance 4 (life changes)	488.592	0.978	0.978	0.018	0.06	61.626	0.997	0.997	0.008	0.023
Impulsivity 1 (impulsive behavior)	496.725	0.978	0.977	0.018	0.06	75.049	0.996	0.996	0.009	0.026
Impulsivity 2 (impulsive sex)	525.824	0.975	0.975	0.019	0.059	126.397	0.993	0.993	0.014	0.033
Impulsivity 3 (impulsive shopping/gambling)	507.189	0.977	0.977	0.019	0.06	69.101	0.997	0.997	0.009	0.024
Suicidality 1 (self-injury/ suicide attempt)	526.287	0.976	0.976	0.019	0.068	69.148	0.997	0.997	0.009	0.028
Suicidality 2 (deliberate self-harm)	506.369	0.977	0.976	0.019	0.061	81.451	0.996	0.995	0.01	0.026
Affective Lability	491.907	0.978	0.978	0.018	0.06	64.813	0.997	0.997	0.008	0.023
Emptiness	515.745	0.978	0.977	0.019	0.063	68.155	0.997	0.997	0.009	0.025
Anger 1 (temper)	489.013	0.978	0.978	0.018	0.061	58.989	0.997	0.997	0.008	0.027
Anger 2 (physical)	489.441	0.978	0.978	0.018	0.06	50.55	0.998	0.998	0.006	0.022
Anger 3 (frustrability)	501.139	0.977	0.977	0.018	0.059	52.423	0.998	0.998	0.007	0.021
Paranoia	483.898	0.978	0.978	0.018	0.061	72.289	0.996	0.996	0.009	0.027

χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; CI = 90% confidence interval; SRMR = standardized root mean square residual.

Table S3. *BPD items with symptom-level impairment factor loadings across sexual orientation for internalizing and externalizing*

Items	<u>Internalizing</u>					<u>Externalizing</u>				
	Heterosexual		Sexual minority			Heterosexual		Sexual minority		
	λ	SE	λ	p	SE	λ	SE	λ	p	SE
Abandonment 1 (frantic concerns of abandonment)	0.291	0.022	0.15	0.111	0.094	0.215	0.024	0.089	0.371	0.1
Abandonment 2 (preventing abandonment)	0.273	0.022	-0.032	0.753	0.101	-0.242	0.026	0.138	0.098	0.084
Unstable Relationships	-0.147	0.017	0.045	0.528	0.072	-0.175	0.015	-0.005	0.949	0.072
Identity Disturbance 1 (sudden changes)	0.349	0.012	0.213	<.001	0.056	0.382	0.015	0.226	0.001	0.065
Identity Disturbance 2 (changes with others)	0.327	0.021	0.264	0.001	0.077	0.285	0.02	0.041	0.571	0.073
Identity Disturbance 3 (big differences)	0.399	0.028	0.147	0.042	0.072	0.286	0.028	0.091	0.326	0.093
Identity Disturbance 4 (life changes)	0.294	0.017	0.247	<.001	0.067	0.285	0.016	0.128	0.063	0.069
Impulsivity 1 (impulsive behavior)	0.171	0.019	0.085	0.221	0.07	0.399	0.015	0.109	0.091	0.064
Impulsivity 2 (impulsive sex)	-0.132	0.019	0.014	0.81	0.057	-0.479	0.013	-0.177	0.005	0.063
Impulsivity 3 (impulsive shopping/ gambling)	0.105	0.014	-0.078	0.263	0.07	0.29	0.014	0.176	0.001	0.055
Suicidality 1 (self-injury/ suicide attempt)	0.35	0.027	0.249	0.001	0.078	-0.264	0.022	-0.028	0.739	0.085
Suicidality 2 (deliberate self-harm)	0.442	0.04	0.335	<.001	0.071	-0.363	0.029	-0.019	0.845	0.096
Affective Lability	0.3	0.021	0.144	0.048	0.073	0.19	0.021	0.193	0.006	0.07
Emptiness	0.433	0.016	0.259	<.001	0.057	0.25	0.017	0.13	0.081	0.074
Anger 1 (temper)	0.224	0.02	0.066	0.483	0.094	0.208	0.022	0.078	0.412	0.096
Anger 2 (physical)	-0.142	0.016	-0.001	0.993	0.07	0.248	0.016	0.195	0.032	0.091
Anger 3 (frustrability)	0.247	0.023	0.195	0.006	0.071	0.182	0.019	0.077	0.279	0.072
Paranoia	-0.337	0.017	-0.236	<.001	0.059	0.286	0.016	0.153	0.027	0.069

Note: Factor loadings are compiled from separate internalizing and externalizing models and are presented side by side for ease of comparison. Bolded p values significant at $p < .05$ for the sexual minority group, all factor loadings are significant for the non-sexual minority group at $p < .001$ and are not bolded. λ = Factor Loading; SE = Standard Error of factor loading; BPD = Borderline Personality Disorder.

Table S4. *Discrimination testing for BPD items without symptom-level impairment for internalizing*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	864.376	0.47	0.4932	0.964	0.963	0.025	0.061
Abandonment 2 (preventing abandonment)	848.659	1.04	0.3079	0.961	0.96	0.025	0.062
Unstable Relationships	881.887	3.714	0.054	0.962	0.961	0.025	0.062
Identity Disturbance 1 (sudden changes)	860.943	0.524	0.469	0.962	0.962	0.025	0.06
Identity Disturbance 2 (changes with others)	831.052	0.326	0.568	0.962	0.962	0.024	0.06
Identity Disturbance 3 (big differences)	835.313	0.996	0.3182	0.962	0.962	0.025	0.061
Identity Disturbance 4 (life changes)	860.59	0.801	0.3708	0.962	0.962	0.025	0.061
Impulsivity 1 (impulsive behavior)	848.633	0.017	0.8976	0.961	0.961	0.025	0.061
Impulsivity 2 (impulsive sex)	845.097	0.995	0.3184	0.959	0.959	0.025	0.061
Impulsivity 3 (impulsive shopping/ gambling)	864.267	2.591	0.1075	0.96	0.959	0.025	0.06
Suicidality 1 (self-injury/ suicide attempt)	862.041	1.802	0.1795	0.962	0.961	0.025	0.065
Suicidality 2 (deliberate self-harm)	858.688	0.948	0.3302	0.96	0.959	0.025	0.062
Affective Lability	865.978	1.271	0.2596	0.965	0.965	0.025	0.061
Emptiness	878.056	2.398	0.1215	0.967	0.967	0.025	0.063
Anger 1 (temper)	872.113	2.343	0.1259	0.962	0.961	0.025	0.061
Anger 2 (physical)	878.78	1.395	0.2376	0.96	0.959	0.025	0.061
Anger 3 (frustrability)	877.412	0.167	0.6826	0.963	0.962	0.025	0.061
Paranoia	899.578	1.089	0.2967	0.965	0.964	0.026	0.061

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction--in this case, none are bolded. All models have 71 degrees of freedom; average *n* = 35,729, SD = 24. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S5. *Discrimination testing for BPD items without symptom-level impairment for externalizing*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	415.261	2.849	0.0914	0.97	0.969	0.027	0.035
Abandonment 2 (preventing abandonment)	424.858	5.139	0.0234	0.968	0.967	0.028	0.038
Unstable Relationships	464.214	1.449	0.2288	0.967	0.966	0.029	0.039
Identity Disturbance 1 (sudden changes)	430.14	1.309	0.2526	0.969	0.968	0.028	0.036
Identity Disturbance 2 (changes with others)	423.395	0.116	0.7339	0.967	0.966	0.028	0.041
Identity Disturbance 3 (big differences)	423.936	0.008	0.9309	0.967	0.966	0.028	0.04
Identity Disturbance 4 (life changes)	457.158	3.005	0.083	0.968	0.967	0.029	0.042
Impulsivity 1 (impulsive behavior)	468.965	2.547	0.1105	0.972	0.971	0.029	0.04
Impulsivity 2 (impulsive sex)	432.942	6.091	0.0136	0.974	0.973	0.028	0.032
Impulsivity 3 (impulsive shopping/ gambling)	418.983	4.251	0.0392	0.973	0.972	0.027	0.03
Suicidality 1 (self-injury/ suicide attempt)	417.227	0.004	0.9474	0.969	0.968	0.027	0.039
Suicidality 2 (deliberate self-harm)	390.481	0.025	0.8737	0.97	0.969	0.026	0.031
Affective Lability	473.332	0	0.9936	0.966	0.964	0.029	0.042
Emptiness	454.725	0.14	0.7085	0.967	0.966	0.029	0.043
Anger 1 (temper)	495.261	1.018	0.3129	0.964	0.962	0.03	0.047
Anger 2 (physical)	507.629	0.052	0.8198	0.966	0.965	0.03	0.045
Anger 3 (frustrability)	529.65	1.642	0.2	0.963	0.961	0.031	0.048
Paranoia	471.047	0.159	0.6904	0.967	0.966	0.029	0.043

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction--in this case, none are bolded. All models have 29 degrees of freedom; average $n = 35,729$, $SD = 24$. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S6. *Discrimination testing for BPD items without symptom-level impairment for internalizing in women only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	596.189	1.959	0.1616	0.957	0.957	0.027	0.062
Abandonment 2 (preventing abandonment)	604.614	0.974	0.3237	0.954	0.954	0.027	0.064
Unstable Relationships	647.109	4.788	0.0287	0.954	0.953	0.028	0.063
Identity Disturbance 1 (sudden changes)	579.147	0.002	0.9651	0.957	0.956	0.027	0.061
Identity Disturbance 2 (changes with others)	565.604	0.895	0.3443	0.957	0.956	0.026	0.061
Identity Disturbance 3 (big differences)	575.061	0.426	0.5137	0.957	0.956	0.027	0.062
Identity Disturbance 4 (life changes)	600.478	0.895	0.3441	0.956	0.956	0.027	0.062
Impulsivity 1 (impulsive behavior)	607.77	0.838	0.3599	0.954	0.953	0.027	0.062
Impulsivity 2 (impulsive sex)	604.333	3.369	0.0664	0.952	0.952	0.027	0.063
Impulsivity 3 (impulsive shopping/ gambling)	607.113	1.488	0.2225	0.954	0.953	0.027	0.061
Suicidality 1 (self-injury/ suicide attempt)	614.401	2.463	0.1165	0.953	0.952	0.028	0.067
Suicidality 2 (deliberate self-harm)	594.828	0.066	0.797	0.954	0.953	0.027	0.064
Affective Lability	600.826	0.346	0.5563	0.959	0.959	0.027	0.061
Emptiness	624.274	0.483	0.4869	0.96	0.96	0.028	0.065
Anger 1 (temper)	624.872	3.729	0.0535	0.954	0.954	0.028	0.062
Anger 2 (physical)	618.923	4.978	0.0257	0.952	0.951	0.028	0.063
Anger 3 (frustrability)	609.874	1.065	0.302	0.956	0.955	0.027	0.062
Paranoia	624.013	0.052	0.8198	0.959	0.958	0.028	0.062

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction--in this case, none are bolded. All models have 71 degrees of freedom; average *n* = 20,104, SD = 13. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S7. *Discrimination testing for BPD items without symptom-level impairment for internalizing in men only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	358.227	0.255	0.6139	0.958	0.958	0.023	0.066
Abandonment 2 (preventing abandonment)	350.377	1.599	0.206	0.954	0.954	0.022	0.07
Unstable Relationships	349.357	0.954	0.3288	0.959	0.959	0.022	0.067
Identity Disturbance 1 (sudden changes)	357.94	0.126	0.7227	0.956	0.956	0.023	0.066
Identity Disturbance 2 (changes with others)	342.957	0.122	0.727	0.959	0.959	0.022	0.065
Identity Disturbance 3 (big differences)	344.699	0.496	0.4811	0.958	0.957	0.022	0.066
Identity Disturbance 4 (life changes)	334.738	0.333	0.5636	0.958	0.958	0.022	0.065
Impulsivity 1 (impulsive behavior)	345.901	0.412	0.5211	0.959	0.959	0.022	0.065
Impulsivity 2 (impulsive sex)	334.98	0.001	0.9734	0.958	0.957	0.022	0.065
Impulsivity 3 (impulsive shopping/ gambling)	347.05	0.779	0.3775	0.955	0.954	0.022	0.066
Suicidality 1 (self-injury/ suicide attempt)	343.09	0.533	0.4654	0.958	0.958	0.022	0.07
Suicidality 2 (deliberate self-harm)	335.803	1.032	0.3096	0.955	0.954	0.022	0.068
Affective Lability	356.576	2.401	0.1213	0.96	0.959	0.023	0.067
Emptiness	350.073	3.397	0.0653	0.966	0.965	0.022	0.068
Anger 1 (temper)	353.773	1.324	0.2499	0.958	0.957	0.023	0.068
Anger 2 (physical)	343.929	0.03	0.8625	0.956	0.956	0.022	0.067
Anger 3 (frustrability)	344.653	1.174	0.2787	0.959	0.959	0.022	0.066
Paranoia	357.724	0.457	0.4989	0.962	0.962	0.023	0.066

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction--in this case, none are bolded. All models have 71 degrees of freedom; average *n* = 15,626, SD = 12. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S8. *Discrimination testing for BPD items without symptom-level impairment for externalizing for women only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	423.908	3.522	0.0606	0.941	0.939	0.037	0.05
Abandonment 2 (preventing abandonment)	402.89	3.872	0.0491	0.941	0.939	0.036	0.05
Unstable Relationships	417.492	2.823	0.0929	0.944	0.942	0.037	0.047
Identity Disturbance 1 (sudden changes)	414.566	2.508	0.1132	0.944	0.943	0.036	0.041
Identity Disturbance 2 (changes with others)	417.374	0.452	0.5014	0.94	0.938	0.037	0.053
Identity Disturbance 3 (big differences)	394.077	0.472	0.4922	0.945	0.943	0.035	0.047
Identity Disturbance 4 (life changes)	423.297	0.913	0.3394	0.943	0.941	0.037	0.048
Impulsivity 1 (impulsive behavior)	428.377	0.117	0.7326	0.952	0.951	0.037	0.047
Impulsivity 2 (impulsive sex)	400.525	1.155	0.2826	0.952	0.951	0.036	0.039
Impulsivity 3 (impulsive shopping/ gambling)	394.26	0.071	0.7897	0.949	0.947	0.035	0.036
Suicidality 1 (self-injury/ suicide attempt)	390.257	0.059	0.8076	0.947	0.945	0.035	0.045
Suicidality 2 (deliberate self-harm)	386.029	1.193	0.2748	0.944	0.942	0.035	0.041
Affective Lability	443.416	0.022	0.8811	0.94	0.938	0.038	0.058
Emptiness	403.555	0.006	0.9395	0.945	0.943	0.036	0.051
Anger 1 (temper)	444.264	1.145	0.2846	0.939	0.937	0.038	0.058
Anger 2 (physical)	421.554	0.021	0.8855	0.944	0.942	0.037	0.054
Anger 3 (frustrability)	429.67	0.188	0.6643	0.941	0.939	0.037	0.056
Paranoia	434.924	0.417	0.5183	0.941	0.939	0.037	0.052

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction--in this case, none are bolded. All models have 29 degrees of freedom; average $n = 20,104$, $SD = 13$. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S9. *Discrimination testing for BPD items without symptom-level impairment for externalizing for men only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	102.238	1.745	0.1865	0.988	0.987	0.018	0.034
Abandonment 2 (preventing abandonment)	109.316	1.811	0.1784	0.986	0.985	0.019	0.04
Unstable Relationships	138.082	0.015	0.9017	0.983	0.983	0.022	0.039
Identity Disturbance 1 (sudden changes)	118.448	0.062	0.804	0.986	0.986	0.02	0.038
Identity Disturbance 2 (changes with others)	111.524	0.038	0.8459	0.986	0.985	0.019	0.04
Identity Disturbance 3 (big differences)	112.283	0.095	0.7576	0.985	0.985	0.019	0.042
Identity Disturbance 4 (life changes)	148.609	5.362	0.0206	0.982	0.981	0.023	0.045
Impulsivity 1 (impulsive behavior)	134.436	0.644	0.4224	0.986	0.985	0.022	0.04
Impulsivity 2 (impulsive sex)	109.799	2.085	0.1488	0.99	0.989	0.019	0.031
Impulsivity 3 (impulsive shopping/ gambling)	108.031	6.401	0.0114	0.989	0.989	0.019	0.031
Suicidality 1 (self-injury/ suicide attempt)	117.052	0.008	0.9273	0.985	0.984	0.02	0.044
Suicidality 2 (deliberate self-harm)	97.031	0.974	0.3237	0.988	0.988	0.017	0.034
Affective Lability	121.524	0.057	0.8114	0.985	0.984	0.02	0.04
Emptiness	144.682	1.717	0.1901	0.982	0.981	0.023	0.045
Anger 1 (temper)	142.149	0.139	0.709	0.982	0.981	0.022	0.045
Anger 2 (physical)	152.727	0.158	0.6906	0.982	0.981	0.023	0.044
Anger 3 (frustrability)	155.226	0.443	0.5057	0.98	0.979	0.024	0.049
Paranoia	135.429	0.99	0.3198	0.984	0.983	0.022	0.042

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction--in this case, none are bolded. All models have 29 degrees of freedom; average $n = 15,625$, $SD = 12$. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S10. *BPD item discrimination parameters across sexual orientation for internalizing and externalizing with symptom-level impairment*

Items	<u>Internalizing</u>				<u>Externalizing</u>			
	<u>Heterosexual</u>		<u>Sexual minority</u>		<u>Heterosexual</u>		<u>Sexual minority</u>	
	Discrimination	SE	Discrimination	SE	Discrimination	SE	Discrimination	SE
Abandonment 1 (frantic concerns of abandonment)	0.291	0.022	0.15	0.094	0.215	0.024	0.089	0.1
Abandonment 2 (preventing abandonment)	0.273	0.022	-0.032	0.101	-0.242	0.026	0.138	0.084
Unstable Relationships	-0.147	0.017	0.045	0.072	-0.175	0.015	-0.005	0.072
Identity Disturbance 1 (sudden changes)	0.349	0.012	0.213	0.056	0.382	0.015	0.226	0.065
Identity Disturbance 2 (changes with others)	0.327	0.021	0.264	0.077	0.285	0.02	0.041	0.073
Identity Disturbance 3 (big differences)	0.399	0.028	0.147	0.072	0.286	0.028	0.091	0.093
Identity Disturbance 4 (life changes)	0.294	0.017	0.247	0.067	0.285	0.016	0.128	0.069
Impulsivity 1 (impulsive behavior)	0.171	0.019	0.085	0.07	0.399	0.015	0.109	0.064
Impulsivity 2 (impulsive sex)	-0.132	0.019	0.014	0.057	-0.479	0.013	-0.177	0.063
Impulsivity 3 (impulsive shopping/ gambling)	-0.105	0.014	0.078	0.07	0.29	0.014	0.176	0.055
Suicidality 1 (self-injury/ suicide attempt)	0.35	0.027	0.249	0.078	-0.264	0.022	-0.028	0.085
Suicidality 2 (deliberate self-harm)	0.442	0.04	0.335	0.071	-0.363	0.029	-0.019	0.096
Affective Lability	0.3	0.021	0.144	0.073	0.19	0.021	0.193	0.07
Emptiness	0.433	0.016	0.259	0.057	0.25	0.017	0.13	0.074
Anger 1 (temper)	0.224	0.02	0.066	0.094	0.208	0.022	0.078	0.096
Anger 2 (physical)	-0.142	0.016	-0.001	0.07	0.248	0.016	0.195	0.091
Anger 3 (frustrability)	0.247	0.023	0.195	0.071	0.182	0.019	0.077	0.072
Paranoia	-0.337	0.017	-0.236	0.059	0.286	0.016	0.153	0.069

Note: Item discrimination parameters are compiled from separate internalizing and externalizing models and are presented side by side for ease of comparison. Discrimination values are in standard deviation units for latent internalizing and externalizing theta. Bolded discrimination parameters indicates the sexual minority group discrimination parameter was significant at $p < .05$; note that all heterosexual group discrimination parameters were significant at $p < .0001$. BPD = Borderline Personality Disorder; SE = Standard Error of discrimination parameter.

Table S11. *Discrimination testing for BPD items with symptom-level impairment for internalizing*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	828.628	2.117	0.1456	0.959	0.958	0.024	0.061
Abandonment 2 (preventing abandonment)	843.214	8.664	0.0032	0.959	0.958	0.025	0.065
Unstable Relationships	861.06	6.827	0.009	0.958	0.958	0.025	0.061
Identity Disturbance 1 (sudden changes)	867.146	5.699	0.017	0.96	0.96	0.025	0.06
Identity Disturbance 2 (changes with others)	822.075	0.611	0.4346	0.959	0.959	0.024	0.06
Identity Disturbance 3 (big differences)	866.348	10.613	0.0011	0.957	0.957	0.025	0.062
Identity Disturbance 4 (life changes)	848.386	0.459	0.4979	0.959	0.959	0.025	0.06
Impulsivity 1 (impulsive behavior)	859.985	1.422	0.233	0.959	0.958	0.025	0.061
Impulsivity 2 (impulsive sex)	834.688	5.795	0.0161	0.958	0.958	0.025	0.06
Impulsivity 3 (impulsive shopping/ gambling)	861.292	6.621	0.0101	0.958	0.958	0.025	0.06
Suicidality 1 (self-injury/ suicide attempt)	892.445	1.52	0.2176	0.957	0.956	0.025	0.069
Suicidality 2 (deliberate self-harm)	870.105	1.713	0.1905	0.957	0.957	0.025	0.062
Affective Lability	859.422	4.207	0.0403	0.959	0.958	0.025	0.06
Emptiness	876.761	8.589	0.0034	0.959	0.959	0.025	0.064
Anger 1 (temper)	852.765	2.713	0.0996	0.959	0.958	0.025	0.061
Anger 2 (physical)	856.159	3.847	0.0498	0.959	0.958	0.025	0.06
Anger 3 (frustrability)	871.884	0.486	0.4857	0.958	0.957	0.025	0.06
Paranoia	838.095	2.745	0.0976	0.96	0.959	0.025	0.061

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction. All models have 71 degrees of freedom; average *n* = 35,723, SD = 25. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S12. *Discrimination testing for BPD items with symptom-level impairment for externalizing*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	379.092	1.487	0.2227	0.969	0.968	0.026	0.024
Abandonment 2 (preventing abandonment)	418.725	18.78	<.0001	0.967	0.966	0.027	0.04
Unstable Relationships	396.7	5.301	0.0213	0.968	0.967	0.027	0.028
Identity Disturbance 1 (sudden changes)	398.769	5.416	0.0199	0.97	0.969	0.027	0.028
Identity Disturbance 2 (changes with others)	405.964	10.371	0.0013	0.968	0.967	0.027	0.029
Identity Disturbance 3 (big differences)	391.429	4.005	0.0454	0.968	0.967	0.026	0.028
Identity Disturbance 4 (life changes)	403.918	5.009	0.0252	0.969	0.968	0.027	0.027
Impulsivity 1 (impulsive behavior)	408.952	19.364	<.0001	0.969	0.968	0.027	0.029
Impulsivity 2 (impulsive sex)	456.709	22.333	<.0001	0.968	0.967	0.029	0.036
Impulsivity 3 (impulsive shopping/ gambling)	411.011	4.004	0.0454	0.969	0.968	0.027	0.028
Suicidality 1 (self-injury/ suicide attempt)	405.975	7.206	0.0073	0.969	0.968	0.027	0.031
Suicidality 2 (deliberate self-harm)	404.177	11.676	0.0006	0.968	0.967	0.027	0.03
Affective Lability	392.171	0.002	0.964	0.969	0.968	0.026	0.027
Emptiness	403.523	2.486	0.1149	0.968	0.967	0.027	0.029
Anger 1 (temper)	395.828	1.761	0.1845	0.968	0.967	0.027	0.03
Anger 2 (physical)	379.996	0.338	0.5609	0.97	0.969	0.026	0.026
Anger 3 (frustrability)	402.802	1.991	0.1582	0.969	0.968	0.027	0.025
Paranoia	400.282	3.542	0.0598	0.968	0.967	0.027	0.031

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated factor loading to the model with the factor loading constrained to equality between SM and non-SM. Bolded values indicate the discrimination parameters that significantly differed across groups, after surviving false discovery rate *p* value correction. All models have 29 degrees of freedom; average *n* = 35,723, SD = 25. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S13. *Difficulty testing for BPD items without symptom-level impairment for internalizing for women only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	397.864	11.351	0.0008	0.973	0.973	0.021	0.061
Abandonment 2 (preventing abandonment)	402.893	8.383	0.0038	0.972	0.971	0.022	0.063
Unstable Relationships	442.53	6.487	0.0109	0.97	0.97	0.023	0.062
Identity Disturbance 1 (sudden changes)	374.217	2.838	0.0921	0.974	0.974	0.021	0.06
Identity Disturbance 2 (changes with others)	367.416	2.715	0.0994	0.974	0.974	0.02	0.06
Identity Disturbance 3 (big differences)	375.32	7.507	0.0061	0.974	0.974	0.021	0.061
Identity Disturbance 4 (life changes)	390.951	0.47	0.4929	0.974	0.973	0.021	0.061
Impulsivity 1 (impulsive behavior)	408.056	19.946	<.0001	0.971	0.971	0.022	0.062
Impulsivity 2 (impulsive sex)	415.655	27.81	<.0001	0.969	0.969	0.022	0.062
Impulsivity 3 (impulsive shopping/ gambling)	397.94	1.962	0.1613	0.972	0.972	0.021	0.061
Suicidality 1 (self-injury/ suicide attempt)	413.885	10.623	0.0011	0.97	0.97	0.022	0.066
Suicidality 2 (deliberate self-harm)	404.739	30.75	<.0001	0.971	0.97	0.022	0.064
Affective Lability	392.595	7.563	0.006	0.975	0.975	0.021	0.061
Emptiness	414.981	0.306	0.5803	0.975	0.975	0.022	0.064
Anger 1 (temper)	413.702	6.098	0.0135	0.972	0.971	0.022	0.061
Anger 2 (physical)	414.292	9.699	0.0018	0.97	0.969	0.022	0.062
Anger 3 (frustrability)	403.496	7.612	0.0058	0.973	0.972	0.022	0.061
Paranoia	415.893	1.147	0.2842	0.974	0.974	0.022	0.061

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated threshold to the model with the threshold constrained to equality between SM and non-SM. Bolded values indicate the difficulty parameters that significantly differed across groups, after surviving false discovery rate *p* value correction. All models have 71 degrees of freedom; average $n = 20,104$, $SD = 13$. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S14. *Difficulty testing for BPD items without symptom-level impairment for internalizing for men only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	217.028	1.211	0.2712	0.979	0.978	0.016	0.066
Abandonment 2 (preventing abandonment)	215.112	0.44	0.5072	0.977	0.976	0.016	0.07
Unstable Relationships	215.374	0.766	0.3816	0.979	0.979	0.016	0.066
Identity Disturbance 1 (sudden changes)	219.179	0.182	0.6696	0.977	0.977	0.016	0.066
Identity Disturbance 2 (changes with others)	204.614	0.68	0.4096	0.98	0.98	0.016	0.065
Identity Disturbance 3 (big differences)	208.576	0.121	0.7275	0.979	0.978	0.016	0.066
Identity Disturbance 4 (life changes)	199.522	0.165	0.6844	0.98	0.979	0.015	0.065
Impulsivity 1 (impulsive behavior)	205.575	1.065	0.3022	0.98	0.98	0.016	0.065
Impulsivity 2 (impulsive sex)	207.543	14.494	0.0001	0.978	0.978	0.016	0.065
Impulsivity 3 (impulsive shopping/ gambling)	208.698	2.719	0.0992	0.977	0.977	0.016	0.065
Suicidality 1 (self-injury/ suicide attempt)	209.799	2.063	0.1509	0.979	0.978	0.016	0.07
Suicidality 2 (deliberate self-harm)	203.082	3.662	0.0557	0.977	0.977	0.015	0.068
Affective Lability	217.873	0.187	0.6657	0.979	0.979	0.016	0.067
Emptiness	216.238	0.462	0.4969	0.982	0.982	0.016	0.068
Anger 1 (temper)	215.322	0.394	0.53	0.978	0.978	0.016	0.068
Anger 2 (physical)	206.362	1.247	0.2641	0.978	0.978	0.016	0.067
Anger 3 (frustrability)	205.493	1.48	0.2238	0.98	0.98	0.016	0.066
Paranoia	219.539	0.706	0.4006	0.98	0.98	0.016	0.066

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated threshold to the model with the threshold constrained to equality between SM and non-SM. Bolded values indicate the difficulty parameters that significantly differed across groups, after surviving false discovery rate *p* value correction. All models have 71 degrees of freedom; average *n* = 15,625, SD = 12. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S15. *Difficulty testing for BPD items without symptom-level impairment for externalizing for women only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	101.707	8.441	0.0037	0.989	0.989	0.016	0.046
Abandonment 2 (preventing abandonment)	78.843	2.631	0.1048	0.992	0.992	0.013	0.046
Unstable Relationships	86.058	3.633	0.0566	0.992	0.991	0.014	0.043
Identity Disturbance 1 (sudden changes)	67.863	0.037	0.8466	0.994	0.994	0.012	0.037
Identity Disturbance 2 (changes with others)	84.722	1.391	0.2383	0.991	0.991	0.014	0.049
Identity Disturbance 3 (big differences)	68.142	5.722	0.0168	0.994	0.994	0.012	0.043
Identity Disturbance 4 (life changes)	90.115	0.05	0.8236	0.991	0.991	0.014	0.045
Impulsivity 1 (impulsive behavior)	85.492	1.06	0.3031	0.993	0.993	0.014	0.043
Impulsivity 2 (impulsive sex)	64.496	5.488	0.0191	0.995	0.995	0.011	0.034
Impulsivity 3 (impulsive shopping/ gambling)	54.905	0.905	0.3415	0.996	0.996	0.009	0.031
Suicidality 1 (self-injury/ suicide attempt)	71.438	9.16	0.0025	0.994	0.994	0.012	0.041
Suicidality 2 (deliberate self-harm)	69.648	22.974	<.0001	0.994	0.993	0.012	0.036
Affective Lability	109.894	8.93	0.0028	0.988	0.988	0.017	0.054
Emptiness	75.877	0.028	0.8673	0.993	0.993	0.013	0.047
Anger 1 (temper)	107.835	1.463	0.2264	0.988	0.988	0.016	0.055
Anger 2 (physical)	87.276	1.502	0.2203	0.992	0.991	0.014	0.051
Anger 3 (frustrability)	95.958	4.031	0.0447	0.99	0.99	0.015	0.052
Paranoia	96.66	0.611	0.4343	0.99	0.99	0.015	0.049

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated threshold to the model with the threshold constrained to equality between SM and non-SM. Bolded values indicate the difficulty parameters that significantly differed across groups, after surviving false discovery rate *p* value correction. All models have 29 degrees of freedom; average $n = 20,104$, $SD = 13$. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S16. *Difficulty testing for BPD items without symptom-level impairment for externalizing for men only*

Title	χ^2	DIFFTEST value	DIFFTEST <i>p</i> value	CFI	TLI	RMSEA	SRMR
Abandonment 1 (frantic concerns of abandonment)	51.599	6.057	0.0139	0.996	0.996	0.01	0.033
Abandonment 2 (preventing abandonment)	54.484	1.205	0.2722	0.996	0.995	0.011	0.039
Unstable Relationships	83.434	2.875	0.0899	0.992	0.991	0.016	0.038
Identity Disturbance 1 (sudden changes)	72.209	11.005	0.0009	0.993	0.993	0.014	0.037
Identity Disturbance 2 (changes with others)	61.791	4.742	0.0294	0.994	0.994	0.012	0.039
Identity Disturbance 3 (big differences)	67.615	10.657	0.0011	0.993	0.993	0.013	0.041
Identity Disturbance 4 (life changes)	96.082	4.388	0.0362	0.99	0.989	0.017	0.044
Impulsivity 1 (impulsive behavior)	80.052	0.009	0.9262	0.993	0.993	0.015	0.039
Impulsivity 2 (impulsive sex)	65.63	21.072	<.0001	0.995	0.995	0.013	0.03
Impulsivity 3 (impulsive shopping/ gambling)	56.196	6.375	0.0116	0.996	0.996	0.011	0.03
Suicidality 1 (self-injury/ suicide attempt)	75.547	16.371	0.0001	0.992	0.992	0.014	0.043
Suicidality 2 (deliberate self-harm)	54.222	15.439	0.0001	0.996	0.995	0.011	0.033
Affective Lability	70.076	7.081	0.0078	0.993	0.993	0.013	0.039
Emptiness	99.773	13.126	0.0003	0.989	0.989	0.018	0.044
Anger 1 (temper)	87.771	2.144	0.1431	0.991	0.99	0.016	0.044
Anger 2 (physical)	97.184	0.251	0.6161	0.99	0.99	0.017	0.043
Anger 3 (frustrability)	100.006	1.411	0.235	0.989	0.988	0.018	0.048
Paranoia	96.632	19.856	<.0001	0.99	0.989	0.017	0.041

Fit indices reported are for the constrained model, with the DIFFTEST comparing the model with the freely estimated threshold to the model with the threshold constrained to equality between SM and non-SM. Bolded values indicate the difficulty parameters that significantly differed across groups, after surviving false discovery rate *p* value correction. All models have 29 degrees of freedom; average *n* = 15,627, SD = 12. χ^2 = weighted least square mean and variance adjusted chi-square; CFI = comparative fit index; TLI = Tucker–Lewis index; RMSEA = root mean square error of approximation; SRMR = standardized root mean square residual.

Table S17. *BPD item difficulty parameters across sexual orientation for internalizing and externalizing without symptom-level impairment for women*

Items	<u>Internalizing</u>				<u>Externalizing</u>			
	Heterosexual		Sexual minority		Heterosexual		Sexual minority	
	Difficulty	SE	Difficulty	SE	Difficulty	SE	Difficulty	SE
Abandonment 1 (frantic concerns of abandonment)	2.276	0.069	1.195	0.126	2.936	0.136	1.541	0.173
Abandonment 2 (preventing abandonment)	3.228	0.119	2.132	0.172	3.657	0.192	2.415	0.211
Unstable Relationships	1.75	0.057	0.708	0.138	2.141	0.097	0.867	0.171
Identity Disturbance 1 (sudden changes)	2.452	0.086	1.57	0.147	2.664	0.114	1.706	0.163
Identity Disturbance 2 (changes with others)	2.847	0.109	1.943	0.158	3.589	0.166	2.448	0.213
Identity Disturbance 3 (big differences)	2.865	0.096	1.812	0.153	3.805	0.171	2.407	0.221
Identity Disturbance 4 (life changes)	2.265	0.082	1.513	0.13	2.668	0.112	1.782	0.161
Impulsivity 1 (impulsive behavior)	2.772	0.111	1.497	0.145	2.253	0.061	1.217	0.113
Impulsivity 2 (impulsive sex)	2.814	0.128	1.267	0.159	2.198	0.064	0.99	0.12
Impulsivity 3 (impulsive shopping/ gambling)	2.272	0.092	1.331	0.185	1.914	0.076	1.123	0.162
Suicidality 1 (self-injury/ suicide attempt)	2.606	0.105	1.491	0.137	3.361	0.128	1.923	0.184
Suicidality 2 (deliberate self-harm)	3.573	0.173	1.993	0.191	4.432	0.249	2.473	0.248
Affective Lability	1.939	0.054	0.955	0.112	2.763	0.131	1.361	0.168
Emptiness	1.757	0.04	1.151	0.101	2.741	0.107	1.795	0.171
Anger 1 (temper)	2.412	0.078	1.44	0.134	2.762	0.132	1.649	0.159
Anger 2 (physical)	2.508	0.112	1.294	0.177	2.271	0.094	1.172	0.16
Anger 3 (frustrability)	2.333	0.075	1.325	0.119	2.836	0.13	1.61	0.156
Paranoia	1.833	0.046	1.058	0.112	2.47	0.107	1.425	0.156

Note: Difficulty parameters are compiled from separate internalizing and externalizing models and are presented side by side for ease of comparison. Difficulty is in units standard deviation for theta (either internalizing or externalizing). Bolded values indicate the difficulty parameters that significantly differed across groups, after surviving false discovery rate p value correction. BPD = Borderline Personality Disorder; SE = Standard Error of the difficulty parameter.

Table S18. *BPD item difficulty parameters across sexual orientation for internalizing and externalizing without symptom-level impairment for men*

Items	<u>Internalizing</u>				<u>Externalizing</u>			
	Heterosexual		Sexual minority		Heterosexual		Sexual minority	
	Difficulty	SE	Difficulty	SE	Difficulty	SE	Difficulty	SE
Abandonment 1 (frantic concerns of abandonment)	2.184	0.079	1.553	0.141	3.238	0.163	2.302	0.225
Abandonment 2 (preventing abandonment)	3.14	0.133	2.525	0.271	4.105	0.246	3.298	0.382
Unstable Relationships	1.68	0.065	1.05	0.17	2.078	0.076	1.299	0.212
Identity Disturbance 1 (sudden changes)	2.348	0.093	1.511	0.138	2.73	0.114	1.756	0.166
Identity Disturbance 2 (changes with others)	2.593	0.101	1.932	0.172	3.645	0.205	2.716	0.264
Identity Disturbance 3 (big differences)	2.71	0.104	1.974	0.143	4.117	0.267	2.999	0.271
Identity Disturbance 4 (life changes)	2.352	0.095	1.64	0.179	2.895	0.129	2.018	0.219
Impulsivity 1 (impulsive behavior)	2.162	0.087	1.6	0.218	1.759	0.045	1.301	0.173
Impulsivity 2 (impulsive sex)	2.342	0.121	0.778	0.215	1.579	0.056	0.525	0.144
Impulsivity 3 (impulsive shopping/ gambling)	2.239	0.151	1.076	0.236	1.706	0.068	0.819	0.175
Suicidality 1 (self-injury/ suicide attempt)	2.818	0.092	1.788	0.171	3.543	0.19	2.249	0.237
Suicidality 2 (deliberate self-harm)	3.664	0.215	2.479	0.241	4.337	0.277	2.935	0.315
Affective Lability	2.104	0.067	1.392	0.16	3.017	0.155	1.997	0.243
Emptiness	1.833	0.044	1.136	0.117	2.871	0.114	1.78	0.196
Anger 1 (temper)	2.362	0.088	1.699	0.19	2.576	0.103	1.853	0.208
Anger 2 (physical)	2.66	0.135	2.227	0.332	2.007	0.062	1.681	0.24
Anger 3 (frustrability)	2.26	0.086	1.669	0.175	2.648	0.121	1.956	0.207
Paranoia	1.759	0.047	0.882	0.118	2.397	0.095	1.202	0.165

Note: Difficulty parameters are compiled from separate internalizing and externalizing models and are presented side by side for ease of comparison. Difficulty is in units standard deviation for theta (either internalizing or externalizing). Bolded values indicate the difficulty parameters that significantly differed across groups, after surviving false discovery rate p value correction. BPD = Borderline Personality Disorder; SE = Standard Error of the difficulty parameter.

Table S19. BPD item difficulty parameters across sexual orientation for internalizing and externalizing with symptom-level impairment

Items	<u>Internalizing</u>				<u>Externalizing</u>			
	Heterosexual		Sexual minority		Heterosexual		Sexual minority	
	Difficulty	SE	Difficulty	SE	Difficulty	SE	Difficulty	SE
Abandonment 1 (frantic concerns of abandonment)	6.278	0.495	5.056	0.45	8.499	0.968	6.845	0.842
Abandonment 2 (preventing abandonment)	8.509	0.688	7.589	0.705	10.262	1.21	9.151	1.144
Unstable Relationships	8.81	1.07	7.368	0.989	7.24	0.634	6.055	0.643
Identity Disturbance 1 (sudden changes)	4.179	0.143	3.197	0.214	3.809	0.16	2.915	0.204
Identity Disturbance 2 (changes with others)	5.614	0.357	4.791	0.368	6.745	0.497	5.757	0.473
Identity Disturbance 3 (big differences)†	-5.695	0.414	-4.791	0.385	7.937	0.797	6.677	0.739
Identity Disturbance 4 (life changes)	5.008	0.301	4.033	0.309	5.278	0.305	4.251	0.303
Impulsivity 1 (impulsive behavior)	9.801	1.077	8.043	0.963	4.223	0.164	3.465	0.215
Impulsivity 2 (impulsive sex)	11.094	1.645	6.847	1.101	2.862	0.087	1.765	0.118
Impulsivity 3 (impulsive shopping/ gambling)	11.905	1.721	8.9	1.39	3.973	0.196	2.969	0.239
Suicidality 1 (self-injury/ suicide attempt)	6.519	0.493	5.244	0.465	9.072	0.773	7.297	0.683
Suicidality 2 (deliberate self-harm)	5.782	0.501	4.369	0.412	7.563	0.641	5.714	0.518
Affective Lability	6.104	0.426	4.915	0.387	9.272	0.981	7.464	0.862
Emptiness	3.849	0.156	3.27	0.175	6.715	0.451	5.703	0.437
Anger 1 (temper)	8.349	0.747	7.518	0.738	8.979	0.963	8.085	0.915
Anger 2 (physical)	10.482	1.209	9.328	1.195	5.783	0.364	5.14	0.435
Anger 3 (frustrability)	7.46	0.689	6.423	0.654	10.337	1.082	8.898	0.983
Paranoia	4.434	0.216	3.333	0.247	5.237	0.282	3.937	0.294

Note: Difficulty parameters are compiled from separate internalizing and externalizing models and are presented side by side for ease of comparison. Difficulty is in units standard deviation for theta (either internalizing or externalizing). Bolded values indicate the difficulty parameters that significantly differed across groups, after surviving false discovery rate p value correction † = item yielded difficulty parameters that were below zero, and thus present unreliable estimates. BPD = Borderline Personality Disorder; SE = Standard Error of the difficulty parameter.

Table S20. *BPD item discrimination parameters across sexual orientation for latent BPD*

Items	DIFFTEST Results							
	No SLI		With SLI		Sex (Male)		Sex (Female)	
	DIFFTEST value	DIFFTEST <i>p</i> value	DIFFTEST value	DIFFTEST <i>p</i> value	DIFFTEST value	DIFFTEST <i>p</i> value	DIFFTEST value	DIFFTEST <i>p</i> value
Abandonment 1 (frantic concerns of abandonment)	0.211	0.6459	0.292	0.5891	0.819	0.3655	1.165	0.2805
Abandonment 2 (preventing abandonment)	0.021	0.8837	1.094	0.2957	0.003	0.9582	2.696	0.1006
Unstable Relationships	1.522	0.2174	0.641	0.4232	2.072	0.15	0.415	0.5195
Identity Disturbance 1 (sudden changes)	0.125	0.7238	0.065	0.7981	0.291	0.5895	0.121	0.7278
Identity Disturbance 2 (changes with others)	1.163	0.2809	6.048	0.0139	2.424	0.1195	0.057	0.8113
Identity Disturbance 3 (big differences)	0.607	0.4358	4.15	0.0416	1.043	0.3071	0.002	0.9617
Identity Disturbance 4 (life changes)	6.228	0.0126	7.602	0.0058	4.24	0.0395	1.786	0.1815
Impulsivity 1 (impulsive behavior)	2.079	0.1493	0.77	0.3802	0.005	0.9415	2.733	0.0983
Impulsivity 2 (impulsive sex)	0.049	0.8256	0.444	0.5054	0.012	0.9129	0.959	0.3274
Impulsivity 3 (impulsive shopping/ gambling)	0.475	0.4909	0.041	0.8392	1.162	0.2811	0.227	0.6338
Suicidality 1 (self-injury/ suicide attempt)	5.394	0.0202	0.014	0.9058	1.291	0.2559	3.816	0.0508
Suicidality 2 (deliberate self-harm)	0.219	0.6395	2.874	0.09	0.922	0.337	0.041	0.8393
Affective Lability	2.712	0.0996	1.527	0.2165	0.411	0.5212	2.796	0.0945
Emptiness	0.002	0.9654	1.681	0.1948	0.009	0.9228	0	0.9939
Anger 1 (temper)	1.322	0.2503	0.107	0.7439	0.014	0.9056	1.652	0.1986
Anger 2 (physical)	0.973	0.3238	5.079	0.0242	0.288	0.5916	0.576	0.4479
Anger 3 (frustrability)	0.018	0.8939	1.991	0.1582	0.097	0.7555	0.534	0.4649
Paranoia	0.834	0.361	3.791	0.0515	0.29	0.5901	0.002	0.9604

Note: Item difficulty parameters are compiled from each model where the item threshold was freely estimated and all others were constrained. Difficulty values are in standard deviation units for latent BPD theta. BPD = Borderline Personality Disorder, SE = Standard Error of the difficulty parameter, SLI = symptom-level impairment.

Table S21. *BPD item difficulty parameters across sexual orientation for latent BPD*

Items	<u>Heterosexual</u>		<u>Sexual minority</u>	
	Difficulty	SE	Difficulty	SE
Abandonment 1 (frantic concerns of abandonment)	1.731	0.026	1.035	0.066
Abandonment 2 (preventing abandonment)	2.238	0.036	1.606	0.109
Unstable Relationships	1.258	0.023	0.633	0.073
Identity Disturbance 1 (sudden changes)	1.742	0.031	1.129	0.072
Identity Disturbance 2 (changes with others)	1.975	0.032	1.407	0.078
Identity Disturbance 3 (big differences)	2.128	0.03	1.432	0.082
Identity Disturbance 4 (life changes)	1.707	0.026	1.165	0.081
Impulsivity 1 (impulsive behavior)	1.713	0.022	1.095	0.078
Impulsivity 2 (impulsive sex)	1.811	0.032	0.754	0.085
Impulsivity 3 (impulsive shopping/ gambling)	1.512	0.029	0.826	0.089
Suicidality 1 (self-injury/ suicide attempt)	2.595	0.048	1.537	0.109
Suicidality 2 (deliberate self-harm)	3.163	0.077	1.895	0.132
Affective Lability	1.658	0.023	0.945	0.071
Emptiness	1.638	0.022	1.057	0.062
Anger 1 (temper)	1.641	0.024	1.082	0.071
Anger 2 (physical)	1.576	0.029	1.044	0.088
Anger 3 (frustrability)	1.654	0.024	1.071	0.065
Paranoia	1.533	0.025	0.832	0.069

Note: Item difficulty parameters are compiled from each model where the item threshold was freely estimated and all others were constrained. Difficulty values are in standard deviation units for latent BPD theta. Bolded values indicate a significant difference between heterosexual and sexual minority groups for the difficulty parameter. BPD = Borderline Personality Disorder. SE = Standard Error of the difficulty parameter.

Table S22. BPD item difficulty parameters across sexual orientation for latent BPD

Items	DIFFTEST Results							
	No SLI		With SLI		Sex (Male)		Sex (Female)	
	DIFFTEST value	DIFFTEST <i>p</i> value	DIFFTEST value	DIFFTEST <i>p</i> value	DIFFTEST value	DIFFTEST <i>p</i> value	DIFFTEST value	DIFFTEST <i>p</i> value
Abandonment 1 (frantic concerns of abandonment)	0.21	0.6467	0.156	0.6925	1.118	0.2903	0.755	0.3849
Abandonment 2 (preventing abandonment)	0.215	0.6432	1.296	0.2549	0.948	0.3302	0.017	0.8952
Unstable Relationships	0.714	0.3981	1.937	0.164	1.622	0.2028	0.089	0.7655
Identity Disturbance 1 (sudden changes)	0.953	0.329	0.044	0.8339	0.092	0.7614	2.084	0.1489
Identity Disturbance 2 (changes with others)	3.452	0.0632	1.568	0.2105	0.689	0.4065	4.974	0.0257
Identity Disturbance 3 (big differences)	0.158	0.6909	0.061	0.8047	0.001	0.9734	0.009	0.9226
Identity Disturbance 4 (life changes)	3.785	0.0517	0.378	0.5387	0.775	0.3785	5.777	0.0162
Impulsivity 1 (impulsive behavior)	1.074	0.3001	0.229	0.6322	3.748	0.0529	2.948	0.086
Impulsivity 2 (impulsive sex)	27.254	<.0001	29.744	<.0001	12.71	0.0004	22.261	<.0001
Impulsivity 3 (impulsive shopping/ gambling)	0.029	0.8652	0.389	0.5326	1.902	0.1679	1.199	0.2735
Suicidality 1 (self-injury/ suicide attempt)	23.624	<.0001	3.609	0.0575	10.445	0.0012	9.207	0.0024
Suicidality 2 (deliberate self-harm)	35.747	<.0001	12.697	<.0001	9.628	0.0019	24.212	<.0001
Affective Lability	0.819	0.3654	0.316	0.574	0.242	0.623	0.774	0.379
Emptiness	3.813	0.0509	3.138	0.0765	0.408	0.5229	12.115	0.0005
Anger 1 (temper)	3.361	0.0668	6.736	0.0094	5.404	0.0201	0.911	0.3398
Anger 2 (physical)	4.019	0.045	2.019	0.1554	8.945	0.0028	0.006	0.9369
Anger 3 (frustrability)	2.918	0.0876	1.847	0.1741	3.433	0.0639	0.168	0.6815
Paranoia	0.193	0.6603	0.724	0.3949	4.415	0.0356	1.54	0.2146

Note: Item difficulty parameters are compiled from each model where the item threshold was freely estimated and all others were constrained. Difficulty values are in standard deviation units for latent BPD theta. Bolded values indicate a significant difference between heterosexual and sexual minority groups for the difficulty parameter. BPD = Borderline Personality Disorder, SE = Standard Error of the difficulty parameter, SLI = symptom-level impairment.