

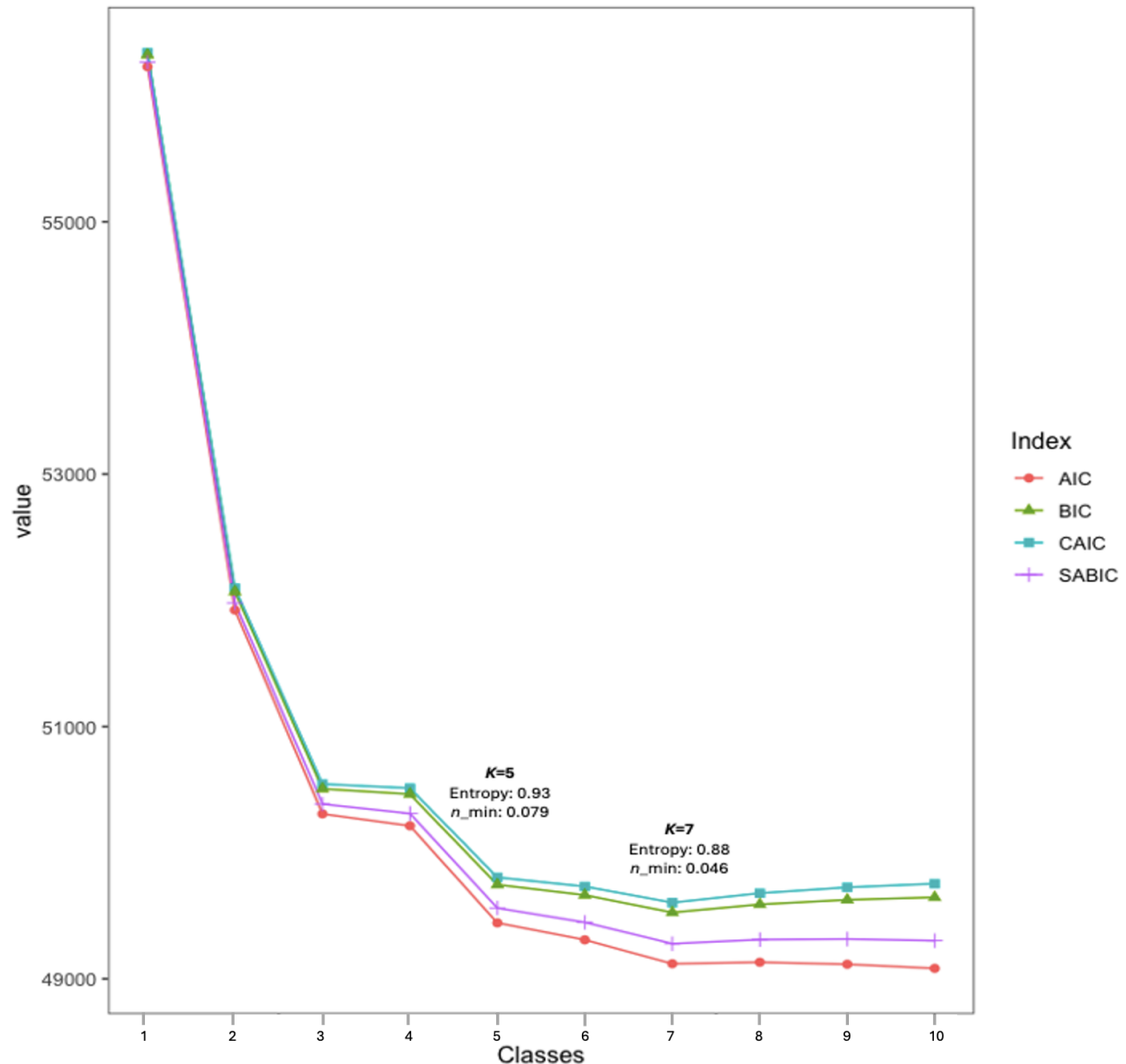
Ince, C. et al.: Profiles of problematic pornography use and religiosity-based moral incongruence using latent profile analysis: a two-sample study

<https://doi.org/10.1556/2006.2025.00022>

Supplementary Materials

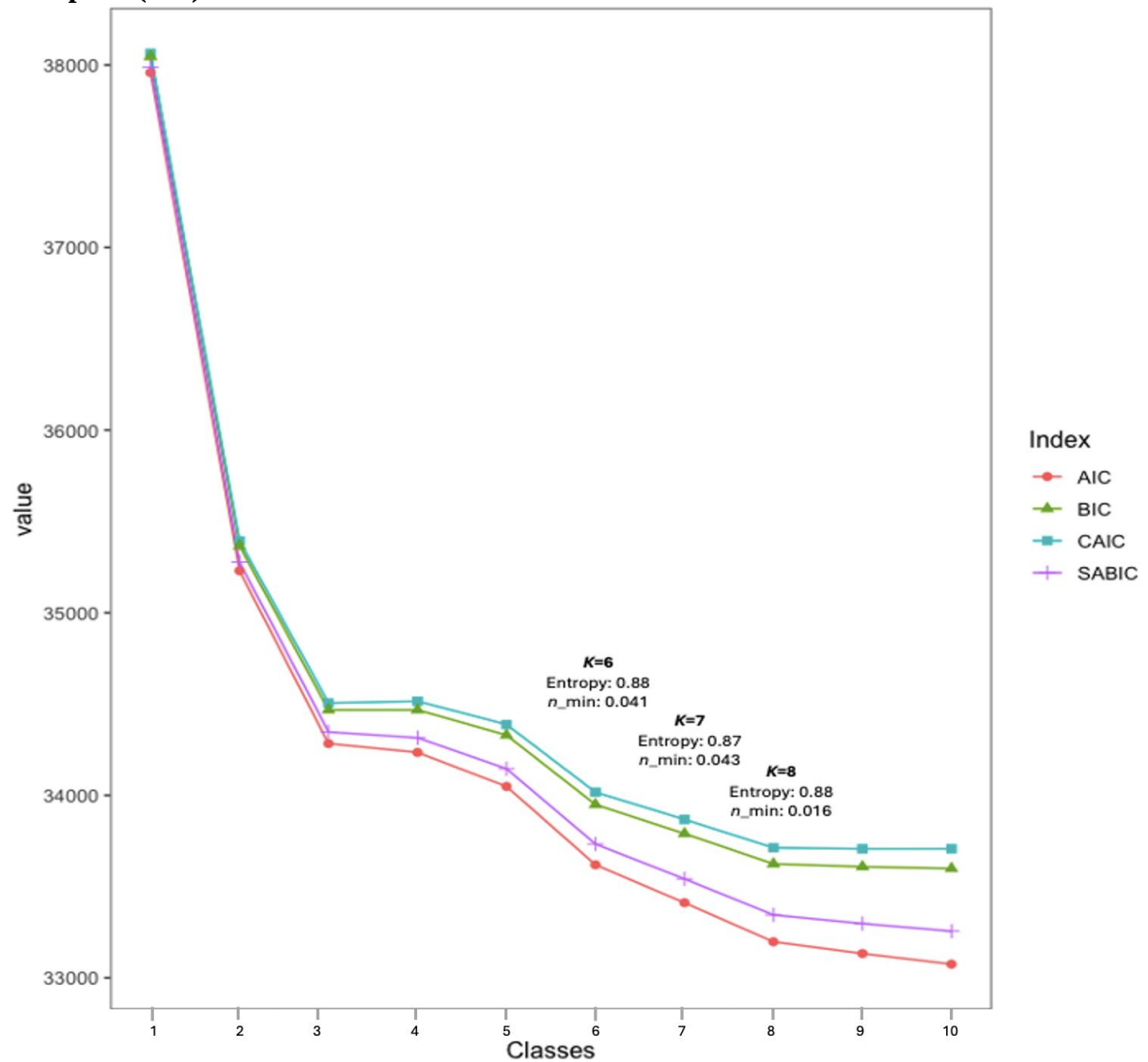
Supplementary Material 1: Elbow plots across samples.

Sample 1 (USA)



Note: AIC = Akaike Information Criterion, K= Number of estimated classes for each solution, BIC = Bayesian Information Criterion, CAIC= Corrected Akaike Information Criterion, SABIC= Sample-size Adjusted Bayesian Information Criterion. Additional information has been added to the plot to aid interpretation of the optimum number of extracted classes (i.e., K=5 selected over K=7 as the optimal class solution given superior entropy value and theoretical alignment; see Results section).

Sample 2 (UK)



Note: AIC = Akaike Information Criterion, K = Number of estimated classes for each solution, BIC = Bayesian Information Criterion, CAIC = Corrected Akaike Information Criterion, SABIC = Sample-size Adjusted Bayesian Information Criterion. Additional information has been added to the plot to aid interpretation of the optimum number of extracted classes (i.e., $K=7$ selected over $K=8$ solution given the latter's low class membership (1.6%); $K=7$ selected over $K=6$ solution given superior theoretical alignment; see Results section).

Supplementary Material 2: Theoretical alignment and class enumeration (Sample 2)

As described in the Results section, fit indices for Sample 2 also continually decreased as more profiles were added to the model. As the eight- to ten-class solutions each contained at least one group with very low membership ($n_{\min}$ ranging between 1.59% to 1.69%), these solutions were rejected. Comparison of the six- and seven-class solutions indicated comparable entropy values (0.88 and 0.87, respectively). Moreover, the six-class solution had poorer theoretical alignment on numerous fronts.

Firstly, the six-class solution only contained one clinically-relevant group (i.e., a PPU-only group, with no additional groups corresponding to ‘MI-only’ or concurrent PPU and MI). Second, the six-class solution contained two putatively sub-clinical profiles that were difficult to interpret: one group with elevated PPU severity scores ($M=47.30$, $SD= 4.24$) that fell below the PPU cut-off score of 50; and a second group also with elevated PPU scores ($M=44.05$, $SD=6.81$) alongside elevated MI scores ($M=5.67$, $SD= 1.09$). Interpretation for these groups was therefore ambiguous, especially compared to the seven-class solution (described in the Results section). Given the comparable entropy values, the seven-class solution was retained as the final model.

Supplementary Material 3.

Table S1. Estimated risk profiles summarised across general and specific risk profiles. Where multiple specific risk profiles exist within a general risk profile (e.g., “Not at risk”), groups have been collapsed into a single (cumulative) figure to aid interpretation across samples.

General risk profile	Specific risk profile	<u>Sample 1 (USA)</u>		<u>Sample 2 (UK)</u>	
		Percentage	Cumulative	Percentage	Cumulative
Not at risk	<i>Not at risk</i>	47%		-	
	<i>Not at risk (Frequent user)</i>	-	47%	5%	40%
	<i>Not at risk (Infrequent user)</i>	-		35%	
Low risk	<i>Low risk</i>	27%	27%	28%	28%
Moderate risk	<i>Moderate risk for PPU</i>	-	-	14%	14%
At-risk	<i>At risk for religious-based MI</i>	8%		4%	
	<i>At risk for co-occurring religious-based MI and PPU</i>	8%	26%	6%	16%
	<i>At risk for PPU</i>	10%		6%	

Table S2. Pairwise comparisons and effect sizes across profiles for Age (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	0.79	0.73	1.08	0.07	0.82
	(3) At risk for religious-based MI	0.92	1.12	0.82	0.08	0.92
	(4) At risk for co-occurring PPU and religious-based MI	6.90	1.15	5.99	0.63	< .001
	5) At risk for PPU	5.84	1.05	5.59	0.53	< .001
2) Low risk	(3) At risk for religious-based MI	0.14	1.19	0.11	0.01	1.00
	(4) At risk for co-occurring PPU and religious-based MI	6.11	1.22	5.03	0.55	< .001
	5) At risk for PPU	5.06	1.11	4.54	0.46	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	5.98	1.49	4.02	0.54	< .001
	5) At risk for PPU	4.92	1.40	3.51	0.45	4.29×10 ⁻³
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	-1.06	1.43	-0.74	0.10	0.95

Note. P-value adjusted for comparing a family of 5

Table S3. Pairwise comparisons and effect sizes across profiles for Age (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.76	1.81	0.42	0.06	1.00
	3) Low risk	1.72	0.99	1.73	0.14	0.60
	4) Moderate risk for PPU	4.78	1.23	3.89	0.40	2.09×10 ⁻³
	(5) At risk for religious-based MI	5.27	2.00	2.64	0.44	0.12
	(6) At risk for co-occurring PPU and religious-based MI	6.87	1.69	4.06	0.57	1.05×10 ⁻³
	7) At risk for PPU	6.19	1.70	3.63	0.51	5.52×10 ⁻³
2) Not at risk, high frequency	3) Low risk	0.96	1.84	0.52	0.08	1.00
	4) Moderate risk for PPU	4.02	1.98	2.03	0.33	0.40
	(5) At risk for religious-based MI	4.51	2.53	1.78	0.37	0.56
	(6) At risk for co-occurring PPU and religious-based MI	6.11	2.30	2.66	0.51	0.11
	7) At risk for PPU	5.43	2.31	2.36	0.45	0.22
3) Low risk	4) Moderate risk for PPU	3.06	1.27	2.40	0.25	0.20
	(5) At risk for religious-based MI	3.55	2.02	1.75	0.29	0.58
	(6) At risk for co-occurring PPU and religious-based MI	5.15	1.72	2.99	0.43	0.05
	7) At risk for PPU	4.47	1.74	2.58	0.37	0.13
4) Moderate risk for PPU	(5) At risk for religious-based MI	0.49	2.15	0.23	0.04	1.00
	(6) At risk for co-occurring PPU and religious-based MI	2.09	1.87	1.12	0.17	0.92
	7) At risk for PPU	1.41	1.88	0.75	0.12	0.99
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	1.60	2.44	0.65	0.13	0.99
	7) At risk for PPU	0.92	2.45	0.38	0.08	1.00
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.68	2.21	-0.31	0.06	1.00

Note. P-value adjusted for comparing a family of 7

* p < .05, ** p < .01

Table S4. Contingency table and omnibus effect size (Cramer's V) for relationship status (Sample 1)

Relationship status	Class					Total
	1) Not at risk (43%)	2) Low risk (27%)	3) At risk for religious-based MI (8%)	4) At risk for co-occurring PPU and religious-based MI (8%)	5) At risk for PPU (10%)	
1	236	156	45	49	60	546
2	140	82	15	15	32	284
3	226	106	48	41	41	462
4	35	13	6	2	2	58
5	3	3	0	0	0	6
Total	640	360	114	107	135	1356

Chi-Squared Tests

	Value	df	p
χ^2	26.49	16	0.05
N	1356		

Cramer's V effect size

	Value ^a
Cramer's V	0.07

Table S5. Contingency table and omnibus effect size (Cramer's *V*) for relationship status (Sample 1)

Relationship status	Class							Total
	1) Not at risk, sporadic user	2) Not at risk, high frequency	3) Low risk	4) Moderate risk for PPU	5) At risk for religious-based MI	6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	
1	90	10	87	41	11	20	18	277
2	109	21	94	51	14	18	27	334
3	127	16	78	39	15	20	11	306
4	5	1	7	5	0	2	3	23
5	0	3	0	0	1	0	0	4
Total	331	51	266	136	41	60	59	944

Chi-Squared Tests

	Value	<i>df</i>	<i>p</i>
χ^2	64.30	24	< .001
<i>N</i>	944		

Cramer's *V* effect size

	Value ^a
Cramer's <i>V</i>	0.13

Table S6. Pairwise comparisons and effect sizes across profiles for frequency of pornography use (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-0.37	0.12	-3.10	0.20	0.02
	(3) At risk for religious-based MI	0.30	0.18	1.65	0.17	0.46
	(4) At risk for co-occurring PPU and religious-based MI	-0.48	0.19	-2.53	0.26	0.08
	5) At risk for PPU	-1.14	0.17	-6.66	0.63	< .001
2) Low risk	(3) At risk for religious-based MI	0.67	0.19	3.46	0.37	5.04×10 ⁻³
	(4) At risk for co-occurring PPU and religious-based MI	-0.11	0.20	-0.55	0.06	0.98
	5) At risk for PPU	-0.77	0.18	-4.23	0.43	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-0.78	0.24	-3.21	0.43	0.01
	5) At risk for PPU	-1.44	0.23	-6.28	0.80	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	-0.66	0.23	-2.83	0.37	0.04

Note. P-value adjusted for comparing a family of 5

Table S7. Pairwise comparisons and effect sizes across profiles for frequency of pornography use (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-4.67	0.23	-19.96	3.00	< .001
	3) Low risk	-1.18	0.13	-9.21	0.76	< .001
	4) Moderate risk for PPU	-1.54	0.16	-9.74	0.99	< .001
	(5) At risk for religious-based MI	0.12	0.26	0.47	0.08	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-0.86	0.22	-3.96	0.56	1.58×10 ⁻³
	7) At risk for PPU	-1.71	0.22	-7.78	1.10	< .001
	3) Low risk	3.49	0.24	14.68	2.24	< .001
2) Not at risk, high frequency	4) Moderate risk for PPU	3.13	0.26	12.25	2.01	< .001
	(5) At risk for religious-based MI	4.79	0.33	14.69	3.08	< .001
	(6) At risk for co-occurring PPU and religious-based MI	3.81	0.30	12.85	2.45	< .001
	7) At risk for PPU	2.96	0.30	9.95	1.90	< .001
	4) Moderate risk for PPU	-0.36	0.16	-2.22	0.23	0.29
	(5) At risk for religious-based MI	1.30	0.26	4.98	0.84	< .001
	(6) At risk for co-occurring PPU and religious-based MI	0.32	0.22	1.42	0.20	0.79
3) Low risk	7) At risk for PPU	-0.53	0.22	-2.37	0.34	0.21
	(5) At risk for religious-based MI	1.66	0.28	6.00	1.07	< .001
	(6) At risk for co-occurring PPU and religious-based MI	0.68	0.24	2.82	0.44	0.07
	7) At risk for PPU	-0.17	0.24	-0.69	0.11	0.99
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-0.98	0.32	-3.12	0.63	0.03
	7) At risk for PPU	-1.83	0.32	-5.79	1.18	< .001
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.85	0.29	-2.97	0.54	0.05

Note. P-value adjusted for comparing a family of 7

* p < .05,

Table S8. Pairwise comparisons and effect sizes across profiles for frequency of porn-free masturbation (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk	2) Low risk	0.09	0.15	0.57	0.04	0.98
	(3) At risk for religious-based MI	0.09	0.23	0.39	0.04	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-0.48	0.24	-2.05	0.21	0.24
	5) At risk for PPU	-0.31	0.21	-1.44	0.14	0.60
2) Low risk	(3) At risk for religious-based MI	3.36×10 ⁻³	0.24	0.01	1.49×10 ⁻³	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-0.57	0.25	-2.29	0.25	0.15
	5) At risk for PPU	-0.39	0.23	-1.73	0.17	0.42
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-0.57	0.30	-1.88	0.25	0.33
	5) At risk for PPU	-0.40	0.29	-1.38	0.18	0.64
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.17	0.29	0.60	0.08	0.98

Note. P-value adjusted for comparing a family of 5

Table S9. Pairwise comparisons and effect sizes across profiles for frequency of porn-free masturbation (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.37	0.36	-1.03	0.15	0.95
	3) Low risk	-0.21	0.20	-1.05	0.09	0.94
	4) Moderate risk for PPU	-0.15	0.25	-0.60	0.06	1.00
	(5) At risk for religious-based MI	0.65	0.40	1.64	0.27	0.66
	(6) At risk for co-occurring PPU and religious-based MI	-0.43	0.34	-1.28	0.18	0.86
	7) At risk for PPU	-0.20	0.34	-0.60	0.08	1.00
	3) Low risk	0.16	0.37	0.44	0.07	1.00
2) Not at risk, high frequency	4) Moderate risk for PPU	0.23	0.40	0.57	0.09	1.00
	(5) At risk for religious-based MI	1.03	0.51	2.03	0.43	0.40
	(6) At risk for co-occurring PPU and religious-based MI	-0.06	0.46	-0.13	0.02	1.00
	7) At risk for PPU	0.17	0.46	0.36	0.07	1.00
	4) Moderate risk for PPU	0.06	0.25	0.25	0.03	1.00
	(5) At risk for religious-based MI	0.86	0.41	2.13	0.36	0.33
3) Low risk	(6) At risk for co-occurring PPU and religious-based MI	-0.22	0.35	-0.65	0.09	1.00
	7) At risk for PPU	5.03×10 ⁻³	0.35	0.01	2.09×10 ⁻³	1.00
	(5) At risk for religious-based MI	0.80	0.43	1.86	0.33	0.51
	(6) At risk for co-occurring PPU and religious-based MI	-0.29	0.37	-0.76	0.12	0.99
4) Moderate risk for PPU	7) At risk for PPU	-0.06	0.38	-0.15	0.02	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-1.09	0.49	-2.22	0.45	0.28
	7) At risk for PPU	-0.86	0.49	-1.75	0.36	0.58
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-1.09	0.49	-2.22	0.45	0.28
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.86	0.49	-1.75	0.36	0.58
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	0.23	0.44	0.52	0.09	1.00

Note. P-value adjusted for comparing a family of 7

Table S10. Pairwise comparisons and effect sizes across profiles for frequency of partnered sex (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Hukey}
1) Not at risk	2) Low risk	0.17	0.16	1.05	0.07	0.83
	(3) At risk for religious-based MI	-0.06	0.26	-0.24	0.03	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-0.21	0.27	-0.77	0.09	0.94
	5) At risk for PPU	-0.04	0.24	-0.18	0.02	1.00
2) Low risk	(3) At risk for religious-based MI	-0.23	0.27	-0.85	0.10	0.91
	(4) At risk for co-occurring PPU and religious-based MI	-0.38	0.28	-1.33	0.16	0.67
	5) At risk for PPU	-0.21	0.25	-0.84	0.09	0.92
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-0.15	0.35	-0.43	0.06	0.99
	5) At risk for PPU	0.02	0.32	0.06	7.93×10 ⁻³	1.00
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.17	0.33	0.50	0.07	0.99

Note. P-value adjusted for comparing a family of 5

Table S11. Pairwise comparisons and effect sizes across profiles for frequency of partnered sex (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Hukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.02	0.36	-0.05	7.30×10 ⁻³	1.00
	3) Low risk	0.39	0.20	1.92	0.16	0.47
	4) Moderate risk for PPU	0.24	0.25	0.94	0.10	0.97
	(5) At risk for religious-based MI	-0.20	0.41	-0.50	0.08	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.31	0.35	0.89	0.13	0.97
	7) At risk for PPU	0.57	0.35	1.66	0.24	0.65
2) Not at risk, high frequency	3) Low risk	0.41	0.37	1.10	0.17	0.93
	4) Moderate risk for PPU	0.25	0.40	0.64	0.11	1.00
	(5) At risk for religious-based MI	-0.18	0.51	-0.36	0.08	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.33	0.46	0.70	0.14	0.99
	7) At risk for PPU	0.59	0.46	1.27	0.25	0.86
3) Low risk	4) Moderate risk for PPU	-0.16	0.26	-0.59	0.06	1.00
	(5) At risk for religious-based MI	-0.59	0.41	-1.43	0.25	0.79
	(6) At risk for co-occurring PPU and religious-based MI	-0.08	0.35	-0.23	0.03	1.00
	7) At risk for PPU	0.18	0.35	0.51	0.08	1.00
4) Moderate risk for PPU	(5) At risk for religious-based MI	-0.44	0.44	-1.00	0.18	0.95
	(6) At risk for co-occurring PPU and religious-based MI	0.07	0.38	0.19	0.03	1.00
	7) At risk for PPU	0.34	0.38	0.88	0.14	0.98
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	0.51	0.50	1.02	0.21	0.95
	7) At risk for PPU	0.77	0.50	1.55	0.32	0.71
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	0.26	0.45	0.58	0.11	1.00

Note. P-value adjusted for comparing a family of 7

Table S12. Pairwise comparisons and effect sizes across profiles for CSBDporn Composite (Sample 1)

		Mean Difference	SE	t	Cohen's d	P _{Tukey}
1) Not at risk	2) Low risk	-14.67	0.31	-47.41	3.12	< .001
	(3) At risk for religious-based MI	-13.50	0.48	-28.27	2.87	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-33.62	0.49	-68.54	7.16	< .001
	5) At risk for PPU	-28.89	0.44	-64.94	6.15	< .001
2) Low risk	(3) At risk for religious-based MI	1.17	0.50	2.32	0.25	0.14
	(4) At risk for co-occurring PPU and religious-based MI	-18.95	0.52	-36.65	4.04	< .001
	5) At risk for PPU	-14.22	0.47	-29.99	3.03	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-20.13	0.63	-31.83	4.28	< .001
	5) At risk for PPU	-15.39	0.60	-25.76	3.28	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	4.74	0.61	7.79	1.01	< .001

Note. P-value adjusted for comparing a family of 5

Table S13. Pairwise comparisons and effect sizes across profiles for CSBDporn Composite (Sample 2)

		Mean Difference	SE	t	Cohen's d	P _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.02	0.63	0.03	4.69×10 ⁻³	1.00
	3) Low risk	-10.84	0.34	-31.59	2.60	< .001
	4) Moderate risk for PPU	-20.69	0.42	-48.74	4.96	< .001
	(5) At risk for religious-based MI)	-8.99	0.69	-13.03	2.16	< .001
	(6) At risk for co-occurring PPU and religious-based MI)	-29.26	0.58	-50.02	7.02	< .001
	7) At risk for PPU	-33.63	0.59	-57.10	8.07	< .001
2) Not at risk, high frequency	3) Low risk	-10.86	0.64	-17.05	2.61	< .001
	4) Moderate risk for PPU	-20.71	0.68	-30.27	4.97	< .001
	(5) At risk for religious-based MI)	-9.01	0.87	-10.31	2.16	< .001
	(6) At risk for co-occurring PPU and religious-based MI)	-29.28	0.79	-36.88	7.02	< .001
	7) At risk for PPU	-33.65	0.80	-42.23	8.07	< .001
3) Low risk	4) Moderate risk for PPU	-9.85	0.44	-22.42	2.36	< .001
	(5) At risk for religious-based MI)	1.85	0.70	2.65	0.44	0.11
	(6) At risk for co-occurring PPU and religious-based MI)	-18.41	0.60	-30.91	4.42	< .001
	7) At risk for PPU	-22.79	0.60	-37.99	5.47	< .001
4) Moderate risk for PPU	(5) At risk for religious-based MI)	11.70	0.74	15.76	2.81	0.01
	(6) At risk for co-occurring PPU and religious-based MI)	-8.56	0.65	-13.25	2.05	< .001
	7) At risk for PPU	-12.94	0.65	-19.91	3.10	< .001
(5) At risk for religious-based MI)	(6) At risk for co-occurring PPU and religious-based MI)	-20.27	0.84	-24.00	4.86	< .001
	7) At risk for PPU	-24.64	0.85	-29.08	5.91	< .001
(6) At risk for co-occurring PPU and religious-based MI)	7) At risk for PPU	-4.38	0.76	-5.73	1.05	< .001

Note. P-value adjusted for comparing a family of 7

Table S14. Pairwise comparisons and effect sizes across profiles for CSBDporn Control (Sample 1)

		Mean Difference	SE	t	Cohen's d	Ptukey
1) Not at risk	2) Low risk	-2.84	0.08	-34.52	2.27	< .001
	(3) At risk for religious-based MI	-2.87	0.13	-22.56	2.29	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-6.26	0.13	-47.96	5.01	< .001
	5) At risk for PPU	-5.80	0.12	-49.03	4.64	< .001
2) Low risk	(3) At risk for religious-based MI	-0.02	0.13	-0.18	0.02	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-3.42	0.14	-24.83	2.73	< .001
	5) At risk for PPU	-2.96	0.13	-23.48	2.37	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-3.39	0.17	-20.17	2.72	< .001
	5) At risk for PPU	-2.94	0.16	-18.48	2.35	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.46	0.16	2.82	0.37	0.04

Note. P-value adjusted for comparing a family of 5

Table S15. Pairwise comparisons and effect sizes across profiles for CSBDporn Control (Sample 2)

		Mean Difference	SE	t	Cohen's d	Ptukey
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.05	0.17	-0.31	0.05	1.00
	3) Low risk	-2.00	0.10	-20.93	1.72	< .001
	4) Moderate risk for PPU	-4.31	0.12	-36.53	3.72	< .001
	(5) At risk for religious-based MI	-1.44	0.19	-7.49	1.24	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-5.77	0.16	-35.47	4.98	< .001
	7) At risk for PPU	-6.68	0.16	-40.82	5.77	< .001
	3) Low risk	-1.94	0.18	-10.97	1.68	< .001
2) Not at risk, high frequency	4) Moderate risk for PPU	-4.26	0.19	-22.38	3.67	< .001
	(5) At risk for religious-based MI	-1.38	0.24	-5.69	1.19	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-5.71	0.22	-25.89	4.93	< .001
	7) At risk for PPU	-6.63	0.22	-29.93	5.72	< .001
	4) Moderate risk for PPU	-2.31	0.12	-18.95	2.00	< .001
3) Low risk	(5) At risk for religious-based MI	0.56	0.19	2.88	0.48	0.06
	(6) At risk for co-occurring PPU and religious-based MI	-3.77	0.17	-22.76	3.25	< .001
	7) At risk for PPU	-4.69	0.17	-28.11	4.05	< .001
	4) Moderate risk for PPU	2.87	0.21	13.92	2.48	< .001
4) Moderate risk for PPU	(6) At risk for co-occurring PPU and religious-based MI	-1.46	0.18	-8.10	1.26	< .001
	7) At risk for PPU	-2.37	0.18	-13.14	2.05	< .001
	(5) At risk for religious-based MI	-4.33	0.23	-18.44	3.74	< .001
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-4.33	0.23	-18.44	3.74	< .001
	7) At risk for PPU	-5.25	0.24	-22.28	4.53	< .001
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.92	0.21	-4.32	0.79	< .001

Note. P-value adjusted for comparing a family of 7

Table S16. Pairwise comparisons and effect sizes across profiles for CSBDporn Salience (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-1.27	0.09	-14.24	0.94	< .001
	(3) At risk for religious-based MI	-1.10	0.14	-8.00	0.81	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-4.31	0.14	-30.37	3.17	< .001
	5) At risk for PPU	-3.07	0.13	-23.90	2.26	< .001
2) Low risk	(3) At risk for religious-based MI	0.17	0.15	1.16	0.12	0.77
	(4) At risk for co-occurring PPU and religious-based MI	-3.03	0.15	-20.28	2.23	< .001
	5) At risk for PPU	-1.80	0.14	-13.13	1.33	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-3.20	0.18	-17.52	2.36	< .001
	5) At risk for PPU	-1.97	0.17	-11.40	1.45	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	1.23	0.18	7.02	0.91	< .001

Note. P-value adjusted for comparing a family of 5

Table S17. Pairwise comparisons and effect sizes across profiles for CSBDporn Salience (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	9.36×10 ⁻³	0.18	0.05	7.70×10 ⁻³	1.00
	3) Low risk	-1.09	0.10	-10.90	0.90	< .001
	4) Moderate risk for PPU	-2.21	0.12	-17.82	1.81	< .001
	(5) At risk for religious-based MI)	-0.70	0.20	-3.46	0.57	0.01
	(6) At risk for co-occurring PPU and religious-based MI)	-2.63	0.17	-15.41	2.16	< .001
	7) At risk for PPU	-3.39	0.17	-19.72	2.79	< .001
2) Not at risk, high frequency	3) Low risk	-1.10	0.19	-5.92	0.91	< .001
	4) Moderate risk for PPU	-2.22	0.20	-11.10	1.82	< .001
	(5) At risk for religious-based MI)	-0.71	0.25	-2.77	0.58	0.08
	(6) At risk for co-occurring PPU and religious-based MI)	-2.64	0.23	-11.39	2.17	< .001
	7) At risk for PPU	-3.40	0.23	-14.62	2.79	< .001
3) Low risk	4) Moderate risk for PPU	-1.11	0.13	-8.70	0.92	< .001
	(5) At risk for religious-based MI)	0.39	0.20	1.93	0.32	0.46
	(6) At risk for co-occurring PPU and religious-based MI)	-1.54	0.17	-8.84	1.26	< .001
	7) At risk for PPU	-2.30	0.17	-13.13	1.89	< .001
4) Moderate risk for PPU	(5) At risk for religious-based MI)	1.51	0.22	6.97	1.24	< .001
	(6) At risk for co-occurring PPU and religious-based MI)	-0.42	0.19	-2.24	0.35	0.28
	7) At risk for PPU	-1.18	0.19	-6.23	0.97	< .001
(5) At risk for religious-based MI)	(6) At risk for co-occurring PPU and religious-based MI)	-1.93	0.25	-7.84	1.59	< .001
	7) At risk for PPU	-2.69	0.25	-10.89	2.21	< .001
(6) At risk for co-occurring PPU and religious-based MI)	7) At risk for PPU	-0.76	0.22	-3.41	0.63	0.01

Note. P-value adjusted for comparing a family of 7

Table S18. Pairwise comparisons and effect sizes across profiles for CSBDporn Relapse (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-2.93	0.09	-32.76	2.16	< .001
	(3) At risk for religious-based MI	-2.47	0.14	-17.92	1.82	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-5.19	0.14	-36.59	3.82	< .001
	5) At risk for PPU	-4.84	0.13	-37.64	3.57	< .001
2) Low risk	(3) At risk for religious-based MI	0.46	0.15	3.13	0.34	0.02
	(4) At risk for co-occurring PPU and religious-based MI	-2.26	0.15	-15.10	1.66	< .001
	5) At risk for PPU	-1.91	0.14	-13.94	1.41	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-2.71	0.18	-14.85	2.00	< .001
	5) At risk for PPU	-2.37	0.17	-13.70	1.74	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.35	0.18	1.98	0.26	0.28

Note. P-value adjusted for comparing a family of 5

Table S19. Pairwise comparisons and effect sizes across profiles for CSBDporn Relapse (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.22	0.19	-1.12	0.17	0.92
	3) Low risk	-2.81	0.11	-26.32	2.17	< .001
	4) Moderate risk for PPU	-4.06	0.13	-30.77	3.13	< .001
	(5) At risk for religious-based MI	-1.60	0.21	-7.48	1.24	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-4.95	0.18	-27.27	3.83	< .001
	7) At risk for PPU	-5.81	0.18	-31.76	4.49	< .001
2) Not at risk, high frequency	3) Low risk	-2.59	0.20	-13.08	2.00	< .001
	4) Moderate risk for PPU	-3.84	0.21	-18.06	2.97	< .001
	(5) At risk for religious-based MI	-1.39	0.27	-5.10	1.07	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-4.73	0.25	-19.21	3.66	< .001
	7) At risk for PPU	-5.59	0.25	-22.60	4.32	< .001
3) Low risk	4) Moderate risk for PPU	-1.25	0.14	-9.17	0.97	< .001
	(5) At risk for religious-based MI	1.20	0.22	5.53	0.93	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-2.15	0.18	-11.61	1.66	< .001
	7) At risk for PPU	-3.00	0.19	-16.13	2.32	< .001
4) Moderate risk for PPU	(5) At risk for religious-based MI	2.45	0.23	10.63	1.89	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-0.90	0.20	-4.47	0.69	< .001
	7) At risk for PPU	-1.75	0.20	-8.69	1.36	< .001
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-3.35	0.26	-12.77	2.59	< .001
	7) At risk for PPU	-4.21	0.26	-15.98	3.25	< .001
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.86	0.24	-3.62	0.66	5.83×10 ⁻³

Note. P-value adjusted for comparing a family of 7

Table S20. Pairwise comparisons and effect sizes across profiles for CSBDporn Dissatisfaction (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-2.76	0.12	-22.48	1.48	< .001

		Mean Difference	SE	t	Cohen's d	p _{Hukey}
	(3) At risk for religious-based MI	-2.20	0.19	-11.60	1.18	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-5.06	0.19	-25.98	2.71	< .001
	5) At risk for PPU	-4.50	0.18	-25.46	2.41	< .001
2) Low risk	(3) At risk for religious-based MI	0.56	0.20	2.81	0.30	0.04
	(4) At risk for co-occurring PPU and religious-based MI	-2.30	0.21	-11.19	1.23	< .001
	5) At risk for PPU	-1.73	0.19	-9.22	0.93	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-2.86	0.25	-11.39	1.53	< .001
	5) At risk for PPU	-2.30	0.24	-9.68	1.23	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.56	0.24	2.33	0.30	0.14

Note. P-value adjusted for comparing a family of 5

Table S21. Pairwise comparisons and effect sizes across profiles for CSBDporn Dissatisfaction (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Hukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.07	0.27	0.26	0.04	1.00
	3) Low risk	-2.29	0.15	-15.47	1.27	< .001
	4) Moderate risk for PPU	-3.44	0.18	-18.76	1.91	< .001
	(5) At risk for religious-based MI	-2.07	0.30	-6.94	1.15	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-4.80	0.25	-19.02	2.67	< .001
	7) At risk for PPU	-4.78	0.25	-18.80	2.66	< .001
2) Not at risk, high frequency	3) Low risk	-2.36	0.28	-8.59	1.31	< .001
	4) Moderate risk for PPU	-3.51	0.30	-11.87	1.95	< .001
	(5) At risk for religious-based MI	-2.14	0.38	-5.66	1.19	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-4.87	0.34	-14.21	2.71	< .001
	7) At risk for PPU	-4.85	0.34	-14.10	2.70	< .001
3) Low risk	4) Moderate risk for PPU	-1.15	0.19	-6.05	0.64	< .001
	(5) At risk for religious-based MI	0.23	0.30	0.75	0.13	0.99
	(6) At risk for co-occurring PPU and religious-based MI	-2.51	0.26	-9.76	1.39	< .001
	7) At risk for PPU	-2.49	0.26	-9.61	1.38	< .001
4) Moderate risk for PPU	(5) At risk for religious-based MI	1.37	0.32	4.28	0.76	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.36	0.28	-4.88	0.76	< .001
	7) At risk for PPU	-1.34	0.28	-4.79	0.75	< .001
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-2.74	0.36	-7.50	1.52	< .001
	7) At risk for PPU	-2.72	0.37	-7.42	1.51	< .001
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	0.02	0.33	0.06	0.01	1.00

Note. P-value adjusted for comparing a family of 7

Table S22. Pairwise comparisons and effect sizes across profiles for CSBDporn Negative consequences (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Hukey}
1) Not at risk	2) Low risk	-4.86	0.17	-29.12	1.92	< .001
	(3) At risk for religious-based MI	-4.85	0.26	-18.84	1.92	< .001

		Mean Difference	SE	t	Cohen's d	p _{tukey}
2) Low risk	(4) At risk for co-occurring PPU and religious-based MI	-12.81	0.26	-48.40	5.06	< .001
	5) At risk for PPU	-10.67	0.24	-44.48	4.21	< .001
	(3) At risk for religious-based MI	8.19×10^{-3}	0.27	0.03	3.23×10^{-3}	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-7.95	0.28	-28.49	3.14	< .001
(3) At risk for religious-based MI	5) At risk for PPU	-5.81	0.26	-22.73	2.29	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-7.95	0.34	-23.33	3.14	< .001
	5) At risk for PPU	-5.82	0.32	-18.06	2.30	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	2.14	0.33	6.51	0.84	< .001

Note. P-value adjusted for comparing a family of 5

*** p < .001

Table S23. Pairwise comparisons and effect sizes across profiles for Negative consequences (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.21	0.35	0.60	0.09	1.00
	3) Low risk	-2.66	0.19	-13.68	1.13	< .001
	4) Moderate risk for PPU	-6.68	0.24	-27.80	2.83	< .001
	(5) At risk for religious-based MI	-3.19	0.39	-8.16	1.35	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-11.11	0.33	-33.56	4.71	< .001
	7) At risk for PPU	-12.97	0.33	-38.90	5.50	< .001
	3) Low risk	-2.87	0.36	-7.96	1.22	< .001
2) Not at risk, high frequency	4) Moderate risk for PPU	-6.89	0.39	-17.80	2.92	< .001
	(5) At risk for religious-based MI	-3.40	0.49	-6.87	1.44	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-11.32	0.45	-25.19	4.80	< .001
	7) At risk for PPU	-13.18	0.45	-29.22	5.59	< .001
	4) Moderate risk for PPU	-4.02	0.25	-16.18	1.71	< .001
	(5) At risk for religious-based MI	-0.53	0.40	-1.34	0.22	0.84
	(6) At risk for co-occurring PPU and religious-based MI	-8.45	0.34	-25.06	3.58	< .001
3) Low risk	7) At risk for PPU	-10.31	0.34	-30.37	4.37	< .001
	(5) At risk for religious-based MI	3.49	0.42	8.31	1.48	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-4.43	0.37	-12.11	1.88	< .001
	7) At risk for PPU	-6.29	0.37	-17.10	2.67	< .001
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-7.92	0.48	-16.57	3.36	< .001
	7) At risk for PPU	-9.78	0.48	-20.39	4.15	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.86	0.43	-4.30	0.79	< .001

Note. P-value adjusted for comparing a family of 7

Table S24. Pairwise comparisons and effect sizes across profiles for Tolerance (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-2.70	0.20	-13.31	0.88	< .001
	(3) At risk for religious-based MI	-2.70	0.31	-8.62	0.88	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-8.83	0.32	-27.40	2.86	< .001

		Mean Difference	SE	t	Cohen's d	p _{tukey}
2) Low risk	5) At risk for PPU	-8.05	0.29	-27.57	2.61	< .001
	(3) At risk for religious-based MI	1.17×10 ⁻³	0.33	3.53×10 ⁻³	3.79×10 ⁻⁴	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-6.12	0.34	-18.03	1.99	< .001
(3) At risk for religious-based MI	5) At risk for PPU	-5.35	0.31	-17.18	1.73	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-6.12	0.42	-14.75	1.99	< .001
	5) At risk for PPU	-5.35	0.39	-13.64	1.73	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.77	0.40	1.94	0.25	0.30

Note. P-value adjusted for comparing a family of 5

*** p < .001

Table S25. Pairwise comparisons and effect sizes across profiles for Tolerance (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.15	0.46	-0.33	0.05	1.00
	3) Low risk	-2.11	0.25	-8.43	0.69	< .001
	4) Moderate risk for PPU	-5.74	0.31	-18.58	1.89	< .001
	(5) At risk for religious-based MI	-2.80	0.50	-5.57	0.92	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-8.52	0.43	-20.02	2.81	< .001
	7) At risk for PPU	-9.86	0.43	-23.01	3.25	< .001
	3) Low risk	-1.96	0.46	-4.22	0.65	< .001
2) Not at risk, high frequency	4) Moderate risk for PPU	-5.59	0.50	-11.23	1.84	< .001
	(5) At risk for religious-based MI	-2.65	0.64	-4.17	0.87	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-8.37	0.58	-14.49	2.76	< .001
	7) At risk for PPU	-9.71	0.58	-16.75	3.20	< .001
	3) Low risk	-3.63	0.32	-11.36	1.20	< .001
	(5) At risk for religious-based MI	-0.69	0.51	-1.36	0.23	0.82
	(6) At risk for co-occurring PPU and religious-based MI	-6.41	0.43	-14.80	2.11	< .001
3) Low risk	7) At risk for PPU	-7.75	0.44	-17.77	2.56	< .001
	4) Moderate risk for PPU	2.94	0.54	5.44	0.97	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-2.78	0.47	-5.92	0.92	< .001
	7) At risk for PPU	-4.12	0.47	-8.72	1.36	< .001
	(5) At risk for religious-based MI	-5.72	0.61	-9.31	1.89	< .001
	7) At risk for PPU	-7.06	0.62	-11.45	2.33	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.34	0.56	-2.41	0.44	0.19

Note. P-value adjusted for comparing a family of 7

Table S26. Pairwise comparisons and effect sizes across profiles for treatment-seeking (Sample 1)

Treatment seeking	Class					Total
	1) Not at risk	2) Low risk	3) At risk for religious-based MI PPU	4) At risk for co-occurring religious-based MI PPU	5) At risk for PPU	
0	635	329	104	54	92	1214
1	5	29	9	51	41	135
Total	640	358	113	105	133	1349

Note: ‘Treatment-seeking’ = binary variable indicating previously seeking or having considered seeking treatment for pornography-related concerns (0= No, 1= Yes)

Chi-Squared Tests

	Value	df	p
χ^2	299.86	4	< .001
N	1349		

Effect size (Cramer’s V)

	Value ^a
Cramer's V	0.47

^a Phi coefficient is only available for 2 by 2 contingency Tables

Table S27. Pairwise comparisons and effect sizes across profiles for treatment-seeking (Sample 2)

Treatment seeking	Class							Total
	1) Not at risk, sporadic user	2) Not at risk, high frequency	3) Low risk	4) Moderate risk for PPU	5) At risk for religious-based MI	6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	
0	329	50	255	115	36		38	854
1	0	1	11	20	4		22	85
Total	329	51	266	135	40		60	939

Note: ‘Treatment-seeking’ = binary variable indicating previously seeking or having considered seeking treatment for pornography-related concerns (0= No, 1= Yes)

Chi-Squared Tests

	Value	df	p
χ^2	203.80	6	< .001
N	939		

Effect size (Cramer’s V)

	Value ^a
Cramer's V	0.47

Table S28. Pairwise comparisons and effect sizes across profiles for moral disapproval of pornography (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-0.17	0.05	-3.33	0.22	7.80×10 ⁻³
	(3) At risk for religious-based MI	-3.86	0.08	-48.83	4.96	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-4.07	0.08	-50.02	5.22	< .001
	5) At risk for PPU	-0.59	0.07	-8.02	0.76	< .001
2) Low risk	(3) At risk for religious-based MI	-3.69	0.08	-44.15	4.74	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-3.90	0.09	-45.45	5.00	< .001
	5) At risk for PPU	-0.42	0.08	-5.35	0.54	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-0.20	0.10	-1.93	0.26	0.30
	5) At risk for PPU	3.27	0.10	33.06	4.20	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	3.47	0.10	34.49	4.46	< .001

Note. P-value adjusted for comparing a family of 5

Table S29. Pairwise comparisons and effect sizes across profiles for moral disapproval of pornography (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.33	0.11	-2.99	0.45	0.05
	3) Low risk	-0.04	0.06	-0.67	0.06	0.99
	4) Moderate risk for PPU	-0.53	0.07	-7.16	0.73	< .001
	(5) At risk for religious-based MI)	-3.83	0.12	-31.84	5.27	< .001
	(6) At risk for co-occurring PPU and religious-based MI)	-4.49	0.10	-44.04	6.18	< .001
	7) At risk for PPU	-0.40	0.10	-3.92	0.55	1.85×10 ⁻³
2) Not at risk, high frequency	3) Low risk	0.29	0.11	2.58	0.39	0.13
	4) Moderate risk for PPU	-0.20	0.12	-1.70	0.28	0.61
	(5) At risk for religious-based MI)	-3.50	0.15	-22.99	4.82	< .001
	(6) At risk for co-occurring PPU and religious-based MI)	-4.16	0.14	-30.09	5.73	< .001
	7) At risk for PPU	-0.08	0.14	-0.54	0.10	1.00
	4) Moderate risk for PPU	-0.49	0.08	-6.40	0.67	< .001
3) Low risk	(5) At risk for religious-based MI)	-3.79	0.12	-31.09	5.22	< .001
	(6) At risk for co-occurring PPU and religious-based MI)	-4.45	0.10	-42.85	6.12	< .001
	7) At risk for PPU	-0.36	0.10	-3.46	0.50	0.01
	(5) At risk for religious-based MI)	-3.30	0.13	-25.49	4.54	< .001
4) Moderate risk for PPU	(6) At risk for co-occurring PPU and religious-based MI)	-3.96	0.11	-35.17	5.45	< .001
	7) At risk for PPU	0.13	0.11	1.13	0.18	0.92
	(6) At risk for co-occurring PPU and religious-based MI)	-0.66	0.15	-4.48	0.91	< .001
(5) At risk for religious-based MI)	7) At risk for PPU	3.43	0.15	23.20	4.72	< .001
(6) At risk for co-occurring PPU and religious-based MI)	7) At risk for PPU	4.09	0.13	30.69	5.63	< .001

Note. P-value adjusted for comparing a family of 7

Table S30. Pairwise comparisons and effect sizes across profiles for moral religiosity (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk	2) Low risk	0.09	0.09	0.97	0.06	0.87
	(3) At risk for religious-based MI	-1.61	0.14	-11.91	1.21	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-1.71	0.14	-12.31	1.29	< .001
	5) At risk for PPU	-0.19	0.13	-1.53	0.14	0.54
2) Low risk	(3) At risk for religious-based MI	-1.70	0.14	-11.86	1.27	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-1.80	0.15	-12.25	1.35	< .001
	5) At risk for PPU	-0.28	0.13	-2.07	0.21	0.23
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-0.10	0.18	-0.55	0.07	0.98
	5) At risk for PPU	1.42	0.17	8.38	1.07	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	1.52	0.17	8.81	1.14	< .001

Note. P-value adjusted for comparing a family of 5

*** p < .001

Table S31. Pairwise comparisons and effect sizes across profiles for religiosity (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.03	0.16	0.20	0.03	1.00
	3) Low risk	0.06	0.09	0.71	0.06	0.99
	4) Moderate risk for PPU	-0.43	0.11	-3.97	0.40	1.51×10 ⁻³
	(5) At risk for religious-based MI	-1.41	0.18	-8.01	1.33	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.57	0.15	-10.51	1.47	< .001
	7) At risk for PPU	0.02	0.15	0.13	0.02	1.00
	3) Low risk	0.03	0.16	0.18	0.03	1.00
2) Not at risk, high frequency	4) Moderate risk for PPU	-0.46	0.17	-2.65	0.43	0.11
	(5) At risk for religious-based MI	-1.45	0.22	-6.47	1.36	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.60	0.20	-7.90	1.50	< .001
	7) At risk for PPU	-0.01	0.20	-0.06	0.01	1.00
	4) Moderate risk for PPU	-0.49	0.11	-4.39	0.46	< .001
	(5) At risk for religious-based MI	-1.48	0.18	-8.25	1.38	< .001
3) Low risk	(6) At risk for co-occurring PPU and religious-based MI	-1.63	0.15	-10.72	1.53	< .001
	7) At risk for PPU	-0.04	0.15	-0.28	0.04	1.00
	(5) At risk for religious-based MI	-0.98	0.19	-5.18	0.92	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.14	0.17	-6.91	1.07	< .001
4) Moderate risk for PPU	7) At risk for PPU	0.45	0.17	2.71	0.42	0.10
	(6) At risk for co-occurring PPU and religious-based MI	-0.16	0.22	-0.73	0.15	0.99
	7) At risk for PPU	1.43	0.22	6.61	1.34	< .001
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-0.16	0.22	-0.73	0.15	0.99
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	1.59	0.20	8.14	1.49	< .001

Note. P-value adjusted for comparing a family of 7

Table S32. Pairwise comparisons and effect sizes across profiles for DASS-10 (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tuke}
1) Not at risk	2) Low risk	-2.44	0.37	-6.62	0.44	< .001
	(3) At risk for religious-based MI	-2.24	0.57	-3.94	0.40	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-9.45	0.58	-16.18	1.69	< .001
	5) At risk for PPU	-7.45	0.53	-14.08	1.33	< .001
2) Low risk	(3) At risk for religious-based MI	0.20	0.60	0.33	0.04	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-7.01	0.62	-11.39	1.25	< .001
	5) At risk for PPU	-5.01	0.56	-8.89	0.90	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-7.21	0.75	-9.58	1.29	< .001
	5) At risk for PPU	-5.21	0.71	-7.33	0.93	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	1.99	0.72	2.76	0.36	0.05

Note. P-value adjusted for comparing a family of 5

Table S33. Pairwise comparisons and effect sizes across profiles for DASS-10 (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tuke}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.44	0.84	-0.52	0.08	1.00
	3) Low risk	-1.66	0.46	-3.61	0.30	5.96×10 ⁻³
	4) Moderate risk for PPU	-4.46	0.57	-7.85	0.80	< .001
	(5) At risk for religious-based MI	-1.23	0.92	-1.33	0.22	0.84
	(6) At risk for co-occurring PPU and religious-based MI	-6.08	0.78	-7.77	1.09	< .001
	7) At risk for PPU	-7.63	0.79	-9.68	1.37	< .001
	3) Low risk	-1.22	0.85	-1.43	0.22	0.79
2) Not at risk, high frequency	4) Moderate risk for PPU	-4.02	0.92	-4.39	0.72	< .001
	(5) At risk for religious-based MI	-0.79	1.17	-0.68	0.14	0.99
	(6) At risk for co-occurring PPU and religious-based MI	-5.64	1.06	-5.31	1.01	< .001
	7) At risk for PPU	-7.19	1.07	-6.74	1.29	< .001
	4) Moderate risk for PPU	-2.80	0.59	-4.77	0.50	< .001
3) Low risk	(5) At risk for religious-based MI	0.43	0.94	0.46	0.08	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-4.42	0.80	-5.55	0.79	< .001
	7) At risk for PPU	-5.97	0.80	-7.44	1.07	< .001
	(5) At risk for religious-based MI	3.23	0.99	3.25	0.58	0.02
4) Moderate risk for PPU	(6) At risk for co-occurring PPU and religious-based MI	-1.62	0.86	-1.87	0.29	0.50
	7) At risk for PPU	-3.17	0.87	-3.64	0.57	5.26×10 ⁻³
	(6) At risk for co-occurring PPU and religious-based MI	-4.85	1.13	-4.29	0.87	< .001
(5) At risk for religious-based MI	7) At risk for PPU	-6.40	1.13	-5.64	1.15	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.55	1.02	-1.51	0.28	0.74

Note. P-value adjusted for comparing a family of 7

Table S34. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Sensation seeking) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-2.44	0.37	-6.62	0.44	< .001
	(3) At risk for religious-based MI	-2.24	0.57	-3.94	0.40	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-9.45	0.58	-16.18	1.69	< .001
	5) At risk for PPU	-7.45	0.53	-14.08	1.33	< .001
2) Low risk	(3) At risk for religious-based MI	0.20	0.60	0.33	0.04	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-7.01	0.62	-11.39	1.25	< .001
	5) At risk for PPU	-5.01	0.56	-8.89	0.90	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-7.21	0.75	-9.58	1.29	< .001
	5) At risk for PPU	-5.21	0.71	-7.33	0.93	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	1.99	0.72	2.76	0.36	0.05

Note. P-value adjusted for comparing a family of 5

Table S35. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Sensation seeking) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.50	0.39	-1.27	0.19	0.86
	3) Low risk	0.22	0.21	1.01	0.08	0.95
	4) Moderate risk for PPU	-0.25	0.26	-0.95	0.10	0.96
	(5) At risk for religious-based MI	-0.59	0.43	-1.38	0.23	0.81
	(6) At risk for co-occurring PPU and religious-based MI	-0.22	0.36	-0.60	0.08	1.00
	7) At risk for PPU	0.33	0.37	0.89	0.13	0.97
2) Not at risk, high frequency	3) Low risk	0.71	0.40	1.80	0.28	0.55
	4) Moderate risk for PPU	0.25	0.43	0.58	0.10	1.00
	(5) At risk for religious-based MI	-0.10	0.55	-0.18	0.04	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.28	0.49	0.56	0.11	1.00
	7) At risk for PPU	0.82	0.50	1.66	0.32	0.64
3) Low risk	4) Moderate risk for PPU	-0.47	0.27	-1.71	0.18	0.61
	(5) At risk for religious-based MI	-0.81	0.44	-1.86	0.31	0.51
	(6) At risk for co-occurring PPU and religious-based MI	-0.44	0.37	-1.17	0.17	0.90
	7) At risk for PPU	0.11	0.37	0.29	0.04	1.00
4) Moderate risk for PPU	(5) At risk for religious-based MI	-0.34	0.46	-0.74	0.13	0.99
	(6) At risk for co-occurring PPU and religious-based MI	0.03	0.40	0.08	0.01	1.00
	7) At risk for PPU	0.58	0.41	1.42	0.22	0.79
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	0.38	0.53	0.71	0.14	0.99
	7) At risk for PPU	0.92	0.53	1.74	0.35	0.59
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	0.54	0.48	1.14	0.21	0.92

Note. P-value adjusted for comparing a family of 7

Table S36. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Lack of premeditation) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk	2) Low risk	-0.69	0.13	-5.34	0.35	< .001
	(3) At risk for religious-based MI	-0.57	0.20	-2.87	0.29	0.03
	(4) At risk for co-occurring PPU and religious-based MI	-0.50	0.20	-2.46	0.26	0.10
	5) At risk for PPU	-0.93	0.18	-5.05	0.48	< .001
2) Low risk	(3) At risk for religious-based MI	0.12	0.21	0.56	0.06	0.98
	(4) At risk for co-occurring PPU and religious-based MI	0.19	0.21	0.86	0.10	0.91
	5) At risk for PPU	-0.25	0.20	-1.25	0.13	0.72
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	0.07	0.26	0.26	0.04	1.00
	5) At risk for PPU	-0.36	0.25	-1.46	0.19	0.59
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	-0.43	0.25	-1.71	0.22	0.43

Note. P-value adjusted for comparing a family of 5

Table S37. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Lack of premeditation) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.03	0.29	-0.09	0.01	1.00
	3) Low risk	-0.16	0.16	-1.03	0.09	0.95
	4) Moderate risk for PPU	-0.94	0.20	-4.83	0.49	< .001
	(5) At risk for religious-based MI	-0.91	0.32	-2.86	0.47	0.06
	(6) At risk for co-occurring PPU and religious-based MI	-0.31	0.27	-1.15	0.16	0.91
	7) At risk for PPU	-0.78	0.27	-2.87	0.41	0.06
2) Not at risk, high frequency	3) Low risk	-0.14	0.29	-0.47	0.07	1.00
	4) Moderate risk for PPU	-0.92	0.31	-2.92	0.48	0.06
	(5) At risk for religious-based MI	-0.88	0.40	-2.20	0.46	0.30
	(6) At risk for co-occurring PPU and religious-based MI	-0.28	0.36	-0.78	0.15	0.99
	7) At risk for PPU	-0.75	0.37	-2.05	0.39	0.38
3) Low risk	4) Moderate risk for PPU	-0.78	0.20	-3.86	0.41	2.33×10 ⁻³
	(5) At risk for religious-based MI	-0.74	0.32	-2.32	0.39	0.24
	(6) At risk for co-occurring PPU and religious-based MI	-0.15	0.27	-0.54	0.08	1.00
	7) At risk for PPU	-0.61	0.28	-2.22	0.32	0.28
4) Moderate risk for PPU	(5) At risk for religious-based MI	0.03	0.34	0.10	0.02	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.63	0.30	2.13	0.33	0.34
	7) At risk for PPU	0.17	0.30	0.56	0.09	1.00
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	0.60	0.39	1.54	0.31	0.72
	7) At risk for PPU	0.13	0.39	0.34	0.07	1.00
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.47	0.35	-1.33	0.24	0.84

Note. P-value adjusted for comparing a family of 7

Table S38. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Lack of perseverance) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-0.47	0.13	-3.61	0.24	2.87×10 ⁻³
	(3) At risk for religious-based MI	-0.14	0.20	-0.71	0.07	0.95
	(4) At risk for co-occurring PPU and religious-based MI	7.94×10 ⁻³	0.21	0.04	4.01×10 ⁻³	1.00
	5) At risk for PPU	-0.41	0.19	-2.20	0.21	0.18
2) Low risk	(3) At risk for religious-based MI	0.33	0.21	1.55	0.17	0.53
	(4) At risk for co-occurring PPU and religious-based MI	0.48	0.22	2.20	0.24	0.18
	5) At risk for PPU	0.06	0.20	0.30	0.03	1.00
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	0.15	0.27	0.57	0.08	0.98
	5) At risk for PPU	-0.27	0.25	-1.07	0.14	0.82
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	-0.42	0.26	-1.64	0.21	0.47

Note. P-value adjusted for comparing a family of 5

* p < .05, ** p < .01

Table S39. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Lack of perseverance) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.24	0.28	0.85	0.13	0.98
	3) Low risk	-0.03	0.15	-0.18	0.01	1.00
	4) Moderate risk for PPU	-0.34	0.19	-1.82	0.19	0.54
	(5) At risk for religious-based MI	0.02	0.31	0.05	8.48×10 ⁻³	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.14	0.26	0.55	0.08	1.00
	7) At risk for PPU	-0.28	0.26	-1.06	0.15	0.94
2) Not at risk, high frequency	3) Low risk	-0.26	0.28	-0.93	0.14	0.97
	4) Moderate risk for PPU	-0.58	0.31	-1.90	0.31	0.48
	(5) At risk for religious-based MI	-0.22	0.39	-0.57	0.12	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-0.09	0.35	-0.27	0.05	1.00
	7) At risk for PPU	-0.51	0.36	-1.45	0.28	0.78
3) Low risk	4) Moderate risk for PPU	-0.32	0.20	-1.62	0.17	0.67
	(5) At risk for religious-based MI	0.04	0.31	0.14	0.02	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.17	0.27	0.64	0.09	1.00
	7) At risk for PPU	-0.25	0.27	-0.94	0.13	0.97
4) Moderate risk for PPU	(5) At risk for religious-based MI	0.36	0.33	1.09	0.19	0.93
	(6) At risk for co-occurring PPU and religious-based MI	0.49	0.29	1.69	0.26	0.62
	7) At risk for PPU	0.07	0.29	0.23	0.04	1.00
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	0.13	0.38	0.34	0.07	1.00
	7) At risk for PPU	-0.29	0.38	-0.78	0.16	0.99
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.42	0.34	-1.23	0.23	0.88

Note. P-value adjusted for comparing a family of 7

Table S40. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Positive urgency) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-1.20	0.16	-7.40	0.49	< .001
	(3) At risk for religious-based MI	-1.47	0.25	-5.88	0.60	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-3.39	0.26	-13.20	1.38	< .001
	5) At risk for PPU	-2.31	0.23	-9.93	0.94	< .001
2) Low risk	(3) At risk for religious-based MI	-0.27	0.26	-1.03	0.11	0.84
	(4) At risk for co-occurring PPU and religious-based MI	-2.19	0.27	-8.10	0.89	< .001
	5) At risk for PPU	-1.11	0.25	-4.49	0.45	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-1.92	0.33	-5.80	0.78	< .001
	5) At risk for PPU	-0.84	0.31	-2.69	0.34	0.06
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	1.08	0.32	3.39	0.44	6.54×10 ⁻³

Note. P-value adjusted for comparing a family of 5

Table S41. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Positive urgency) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.20	0.36	-0.54	0.08	1.00
	3) Low risk	-0.76	0.20	-3.89	0.32	2.05×10 ⁻³
	4) Moderate risk for PPU	-1.79	0.24	-7.39	0.75	< .001
	(5) At risk for religious-based MI	-1.93	0.39	-4.89	0.81	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-2.23	0.33	-6.66	0.94	< .001
	7) At risk for PPU	-2.12	0.34	-6.31	0.89	< .001
	3) Low risk	-0.57	0.36	-1.56	0.24	0.71
2) Not at risk, high frequency	4) Moderate risk for PPU	-1.60	0.39	-4.09	0.67	< .001
	(5) At risk for religious-based MI	-1.73	0.50	-3.47	0.73	9.81×10 ⁻³
	(6) At risk for co-occurring PPU and religious-based MI	-2.03	0.45	-4.48	0.85	< .001
	7) At risk for PPU	-1.93	0.46	-4.24	0.81	< .001
	4) Moderate risk for PPU	-1.03	0.25	-4.10	0.43	< .001
3) Low risk	(5) At risk for religious-based MI	-1.16	0.40	-2.91	0.49	0.06
	(6) At risk for co-occurring PPU and religious-based MI	-1.46	0.34	-4.30	0.61	< .001
	7) At risk for PPU	-1.36	0.34	-3.97	0.57	1.49×10 ⁻³
	(5) At risk for religious-based MI	-0.13	0.42	-0.32	0.06	1.00
4) Moderate risk for PPU	(6) At risk for co-occurring PPU and religious-based MI	-0.43	0.37	-1.17	0.18	0.90
	7) At risk for PPU	-0.33	0.37	-0.89	0.14	0.97
	(6) At risk for co-occurring PPU and religious-based MI	-0.30	0.48	-0.62	0.13	1.00
(5) At risk for religious-based MI	7) At risk for PPU	-0.20	0.48	-0.41	0.08	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.10	0.44	0.24	0.04	1.00

Note. P-value adjusted for comparing a family of 7

Table S42. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Negative urgency) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk	2) Low risk	-1.58	0.17	-9.25	0.61	< .001
	(3) At risk for religious-based MI	-1.74	0.26	-6.58	0.67	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-3.78	0.27	-13.92	1.45	< .001
	5) At risk for PPU	-3.08	0.25	-12.53	1.19	< .001
2) Low risk	(3) At risk for religious-based MI	-0.15	0.28	-0.55	0.06	0.98
	(4) At risk for co-occurring PPU and religious-based MI	-2.19	0.29	-7.66	0.84	< .001
	5) At risk for PPU	-1.50	0.26	-5.72	0.58	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-2.04	0.35	-5.83	0.78	< .001
	5) At risk for PPU	-1.35	0.33	-4.07	0.52	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.69	0.34	2.06	0.27	0.24

Note. P-value adjusted for comparing a family of 5

Table S43. Pairwise comparisons and effect sizes across profiles for SUPPS-P (Negative urgency) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.24	0.37	0.64	0.10	1.00
	3) Low risk	-1.28	0.20	-6.33	0.52	< .001
	4) Moderate risk for PPU	-2.32	0.25	-9.33	0.95	< .001
	(5) At risk for religious-based MI	-1.70	0.41	-4.19	0.69	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-2.67	0.34	-7.76	1.09	< .001
	7) At risk for PPU	-3.59	0.35	-10.37	1.47	< .001
	3) Low risk	-1.51	0.37	-4.04	0.62	1.11×10 ⁻³
2) Not at risk, high frequency	4) Moderate risk for PPU	-2.56	0.40	-6.38	1.05	< .001
	(5) At risk for religious-based MI	-1.93	0.51	-3.77	0.79	3.29×10 ⁻³
	(6) At risk for co-occurring PPU and religious-based MI	-2.90	0.47	-6.23	1.19	< .001
	7) At risk for PPU	-3.82	0.47	-8.17	1.56	< .001
	4) Moderate risk for PPU	-1.05	0.26	-4.07	0.43	1.01×10 ⁻³
3) Low risk	(5) At risk for religious-based MI	-0.42	0.41	-1.03	0.17	0.95
	(6) At risk for co-occurring PPU and religious-based MI	-1.39	0.35	-3.97	0.57	1.48×10 ⁻³
	7) At risk for PPU	-2.31	0.35	-6.56	0.94	< .001
	(5) At risk for religious-based MI	0.63	0.44	1.44	0.26	0.78
4) Moderate risk for PPU	(6) At risk for co-occurring PPU and religious-based MI	-0.34	0.38	-0.90	0.14	0.97
	7) At risk for PPU	-1.26	0.38	-3.31	0.52	0.02
	(6) At risk for co-occurring PPU and religious-based MI	-0.97	0.50	-1.95	0.40	0.45
(5) At risk for religious-based MI	7) At risk for PPU	-1.89	0.50	-3.80	0.77	2.97×10 ⁻³
	(6) At risk for co-occurring PPU and religious-based MI	-0.92	0.45	-2.05	0.38	0.38

Note. P-value adjusted for comparing a family of 7

Table S44. Pairwise comparisons and effect sizes across profiles for CHI-T (Perfectionism) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	0.16	0.05	3.55	0.23	3.67×10 ⁻³
	(3) At risk for religious-based MI	0.03	0.07	0.50	0.05	0.99
	(4) At risk for co-occurring PPU and religious-based MI	0.11	0.07	1.49	0.16	0.57
	5) At risk for PPU	0.11	0.06	1.66	0.16	0.46
2) Low risk	(3) At risk for religious-based MI	-0.13	0.07	-1.71	0.18	0.43
	(4) At risk for co-occurring PPU and religious-based MI	-0.05	0.08	-0.71	0.08	0.95
	5) At risk for PPU	-0.05	0.07	-0.76	0.08	0.94
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	0.07	0.09	0.78	0.11	0.94
	5) At risk for PPU	0.07	0.09	0.84	0.11	0.92
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	1.04×10 ⁻³	0.09	0.01	1.51×10 ⁻³	1.00

Note. P-value adjusted for comparing a family of 5

* p < .05, ** p < .01

Table S45. Pairwise comparisons and effect sizes across profiles for CHI-T (Perfectionism) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.04	0.10	-0.43	0.07	1.00
	3) Low risk	0.02	0.05	0.39	0.03	1.00
	4) Moderate risk for PPU	0.11	0.07	1.75	0.18	0.59
	(5) At risk for religious-based MI	-0.13	0.11	-1.21	0.20	0.89
	(6) At risk for co-occurring PPU and religious-based MI	0.08	0.09	0.90	0.13	0.97
	7) At risk for PPU	0.15	0.09	1.63	0.23	0.66
2) Not at risk, high frequency	3) Low risk	0.06	0.10	0.64	0.10	1.00
	4) Moderate risk for PPU	0.16	0.11	1.48	0.24	0.76
	(5) At risk for religious-based MI	-0.09	0.14	-0.64	0.13	1.00
	(6) At risk for co-occurring PPU and religious-based MI	0.12	0.12	1.00	0.19	0.95
	7) At risk for PPU	0.19	0.12	1.55	0.30	0.72
3) Low risk	4) Moderate risk for PPU	0.09	0.07	1.38	0.15	0.81
	(5) At risk for religious-based MI	-0.15	0.11	-1.38	0.23	0.81
	(6) At risk for co-occurring PPU and religious-based MI	0.06	0.09	0.66	0.09	0.99
	7) At risk for PPU	0.13	0.09	1.38	0.20	0.81
4) Moderate risk for PPU	(5) At risk for religious-based MI	-0.24	0.12	-2.12	0.38	0.34
	(6) At risk for co-occurring PPU and religious-based MI	-0.03	0.10	-0.33	0.05	1.00
	7) At risk for PPU	0.03	0.10	0.34	0.05	1.00
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	0.21	0.13	1.61	0.33	0.68
	7) At risk for PPU	0.28	0.13	2.12	0.43	0.34
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	0.07	0.12	0.57	0.10	1.00

Note. P-value adjusted for comparing a family of 7

Table S46. Pairwise comparisons and effect sizes across profiles for CHI-T (Reward drive) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-1.08	0.12	-8.69	0.57	< .001
	(3) At risk for religious-based MI	-0.87	0.19	-4.56	0.46	< .001
	(4) At risk for co-occurring PPU and religious-based MI	-2.59	0.20	-13.14	1.37	< .001
	5) At risk for PPU	-2.20	0.18	-12.32	1.17	< .001
2) Low risk	(3) At risk for religious-based MI	0.20	0.20	1.01	0.11	0.85
	(4) At risk for co-occurring PPU and religious-based MI	-1.51	0.21	-7.27	0.80	< .001
	5) At risk for PPU	-1.12	0.19	-5.88	0.59	< .001
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-1.71	0.25	-6.75	0.91	< .001
	5) At risk for PPU	-1.32	0.24	-5.52	0.70	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.39	0.24	1.59	0.21	0.50

Note. P-value adjusted for comparing a family of 5

*** p < .001

Table S47. Pairwise comparisons and effect sizes across profiles for CHI-T (Reward drive) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.07	0.26	0.25	0.04	1.00
	3) Low risk	-0.73	0.14	-5.11	0.42	< .001
	4) Moderate risk for PPU	-1.44	0.18	-8.12	0.83	< .001
	(5) At risk for religious-based MI	-0.96	0.29	-3.33	0.55	0.02
	(6) At risk for co-occurring PPU and religious-based MI	-1.62	0.24	-6.64	0.93	< .001
	7) At risk for PPU	-2.35	0.25	-9.56	1.35	< .001
	3) Low risk	-0.80	0.27	-3.00	0.46	0.04
2) Not at risk, high frequency	4) Moderate risk for PPU	-1.51	0.29	-5.27	0.87	< .001
	(5) At risk for religious-based MI	-1.03	0.37	-2.81	0.59	0.07
	(6) At risk for co-occurring PPU and religious-based MI	-1.69	0.33	-5.09	0.97	< .001
	7) At risk for PPU	-2.42	0.33	-7.26	1.39	< .001
	4) Moderate risk for PPU	-0.71	0.18	-3.86	0.41	2.34×10 ⁻³
3) Low risk	(5) At risk for religious-based MI	-0.23	0.29	-0.78	0.13	0.99
	(6) At risk for co-occurring PPU and religious-based MI	-0.89	0.25	-3.57	0.51	6.82×10 ⁻³
	7) At risk for PPU	-1.62	0.25	-6.46	0.93	< .001
	(5) At risk for religious-based MI	0.48	0.31	1.55	0.28	0.72
4) Moderate risk for PPU	(6) At risk for co-occurring PPU and religious-based MI	-0.18	0.27	-0.67	0.10	0.99
	7) At risk for PPU	-0.91	0.27	-3.36	0.52	0.01
	(6) At risk for co-occurring PPU and religious-based MI	-0.66	0.35	-1.87	0.38	0.50
(5) At risk for religious-based MI	7) At risk for PPU	-1.39	0.35	-3.93	0.80	1.78×10 ⁻³
	(6) At risk for co-occurring PPU and religious-based MI	-0.73	0.32	-2.29	0.42	0.25

Note. P-value adjusted for comparing a family of 7

Table S48. Pairwise comparisons and effect sizes across profiles for CHI-T (Cognitive rigidity) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-1.27	0.23	-5.60	0.37	< .001
	(3) At risk for religious-based MI	-1.13	0.35	-3.25	0.33	0.01
	(4) At risk for co-occurring PPU and religious-based MI	-3.28	0.36	-9.13	0.95	< .001
	5) At risk for PPU	-2.51	0.33	-7.70	0.73	< .001
2) Low risk	(3) At risk for religious-based MI	0.13	0.37	0.36	0.04	1.00
	(4) At risk for co-occurring PPU and religious-based MI	-2.01	0.38	-5.31	0.58	< .001
	5) At risk for PPU	-1.24	0.35	-3.57	0.36	3.39×10 ⁻³
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-2.14	0.46	-4.63	0.62	< .001
	5) At risk for PPU	-1.37	0.44	-3.14	0.40	0.01
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.77	0.45	1.73	0.22	0.42

Note. P-value adjusted for comparing a family of 5

Table S49. Pairwise comparisons and effect sizes across profiles for CHI-T (Cognitive rigidity) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.53	0.44	1.23	0.18	0.88
	3) Low risk	-0.95	0.24	-3.98	0.33	1.47×10 ⁻³
	4) Moderate risk for PPU	-1.72	0.29	-5.83	0.59	< .001
	(5) At risk for religious-based MI	-2.00	0.48	-4.17	0.69	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-1.99	0.41	-4.89	0.69	< .001
	7) At risk for PPU	-2.20	0.41	-5.38	0.76	< .001
	3) Low risk	-1.48	0.44	-3.35	0.51	0.01
2) Not at risk, high frequency	4) Moderate risk for PPU	-2.25	0.47	-4.74	0.78	< .001
	(5) At risk for religious-based MI	-2.53	0.61	-4.17	0.88	< .001
	(6) At risk for co-occurring PPU and religious-based MI	-2.52	0.55	-4.58	0.87	< .001
	7) At risk for PPU	-2.74	0.55	-4.95	0.95	< .001
	4) Moderate risk for PPU	-0.77	0.30	-2.53	0.27	0.15
	(5) At risk for religious-based MI	-1.05	0.49	-2.16	0.36	0.32
	(6) At risk for co-occurring PPU and religious-based MI	-1.04	0.41	-2.52	0.36	0.15
3) Low risk	7) At risk for PPU	-1.25	0.42	-3.01	0.43	0.04
	(5) At risk for religious-based MI	-0.28	0.52	-0.54	0.10	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-0.27	0.45	-0.60	0.09	1.00
4) Moderate risk for PPU	7) At risk for PPU	-0.48	0.45	-1.07	0.17	0.94
	(6) At risk for co-occurring PPU and religious-based MI	9.76×10 ⁻³	0.59	0.02	3.37×10 ⁻³	1.00
	7) At risk for PPU	-0.20	0.59	-0.35	0.07	1.00
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-0.21	0.53	-0.40	0.07	1.00

Note. P-value adjusted for comparing a family of 7

Table S50. Pairwise comparisons and effect sizes across profiles for BFI (Openness) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	0.25	0.13	1.98	0.13	0.28
	(3) At risk for religious-based MI	0.55	0.20	2.78	0.28	0.04
	(4) At risk for co-occurring PPU and religious-based MI	0.54	0.20	2.68	0.28	0.06
	5) At risk for PPU	0.18	0.18	0.98	0.09	0.87
2) Low risk	(3) At risk for religious-based MI	0.29	0.21	1.42	0.15	0.62
	(4) At risk for co-occurring PPU and religious-based MI	0.29	0.21	1.36	0.15	0.65
	5) At risk for PPU	-0.07	0.19	-0.38	0.04	1.00
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-4.59×10 ⁻³	0.26	-0.02	2.38×10 ⁻³	1.00
	5) At risk for PPU	-0.37	0.25	-1.49	0.19	0.57
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	-0.36	0.25	-1.45	0.19	0.60

* p < .05

Note. P-value adjusted for comparing a family of 5

Table S51. Pairwise comparisons and effect sizes across profiles for BFI (Openness) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.13	0.28	0.47	0.07	1.00
	3) Low risk	-0.07	0.15	-0.45	0.04	1.00
	4) Moderate risk for PPU	0.03	0.19	0.16	0.02	1.00
	(5) At risk for religious-based MI	0.31	0.31	0.99	0.16	0.96
	(6) At risk for co-occurring PPU and religious-based MI	-0.10	0.26	-0.40	0.06	1.00
	7) At risk for PPU	0.11	0.26	0.42	0.06	1.00
	3) Low risk	-0.20	0.28	-0.70	0.11	0.99
2) Not at risk, high frequency	4) Moderate risk for PPU	-0.10	0.31	-0.33	0.05	1.00
	(5) At risk for religious-based MI	0.18	0.39	0.45	0.09	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-0.24	0.36	-0.67	0.13	0.99
	7) At risk for PPU	-0.02	0.36	-0.06	0.01	1.00
	4) Moderate risk for PPU	0.10	0.20	0.51	0.05	1.00
3) Low risk	(5) At risk for religious-based MI	0.38	0.31	1.20	0.20	0.89
	(6) At risk for co-occurring PPU and religious-based MI	-0.04	0.27	-0.14	0.02	1.00
	7) At risk for PPU	0.18	0.27	0.67	0.10	0.99
	4) Moderate risk for PPU	0.28	0.33	0.83	0.15	0.98
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-0.14	0.29	-0.47	0.07	1.00
	7) At risk for PPU	0.08	0.29	0.28	0.04	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-0.41	0.38	-1.09	0.22	0.93
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	-0.20	0.38	-0.51	0.10	1.00
	7) At risk for PPU	0.22	0.34	0.63	0.12	1.00

Note. P-value adjusted for comparing a family of 7

Table S52. Pairwise comparisons and effect sizes across profiles for BFI (Extraversion) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk	2) Low risk	0.35	0.15	2.37	0.16	0.12
	(3) At risk for religious-based MI	0.03	0.23	0.13	0.01	1.00
	(4) At risk for co-occurring PPU and religious-based MI	0.55	0.24	2.32	0.24	0.14
	5) At risk for PPU	0.50	0.21	2.33	0.22	0.14
2) Low risk	(3) At risk for religious-based MI	-0.32	0.24	-1.33	0.14	0.67
	(4) At risk for co-occurring PPU and religious-based MI	0.19	0.25	0.78	0.09	0.94
	5) At risk for PPU	0.14	0.23	0.63	0.06	0.97
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	0.52	0.30	1.70	0.23	0.43
	5) At risk for PPU	0.47	0.29	1.63	0.21	0.48
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	-0.05	0.29	-0.17	0.02	1.00

Note. P-value adjusted for comparing a family of 5

Table S53. Pairwise comparisons and effect sizes across profiles for BFI (Extraversion) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.04	0.32	0.11	0.02	1.00
	3) Low risk	0.43	0.17	2.47	0.20	0.17
	4) Moderate risk for PPU	0.35	0.22	1.61	0.16	0.68
	(5) At risk for religious-based MI	-0.42	0.35	-1.19	0.20	0.90
	(6) At risk for co-occurring PPU and religious-based MI	0.55	0.30	1.86	0.26	0.50
	7) At risk for PPU	1.10	0.30	3.67	0.52	4.76×10 ⁻³
2) Not at risk, high frequency	3) Low risk	0.39	0.32	1.22	0.19	0.89
	4) Moderate risk for PPU	0.31	0.35	0.90	0.15	0.97
	(5) At risk for religious-based MI	-0.45	0.44	-1.02	0.21	0.95
	(6) At risk for co-occurring PPU and religious-based MI	0.52	0.40	1.29	0.24	0.86
	7) At risk for PPU	1.06	0.40	2.63	0.50	0.12
3) Low risk	4) Moderate risk for PPU	-0.08	0.22	-0.37	0.04	1.00
	(5) At risk for religious-based MI	-0.85	0.35	-2.39	0.40	0.21
	(6) At risk for co-occurring PPU and religious-based MI	0.12	0.30	0.41	0.06	1.00
	7) At risk for PPU	0.67	0.30	2.19	0.32	0.30
4) Moderate risk for PPU	(5) At risk for religious-based MI	-0.76	0.38	-2.03	0.36	0.40
	(6) At risk for co-occurring PPU and religious-based MI	0.21	0.33	0.63	0.10	1.00
	7) At risk for PPU	0.75	0.33	2.28	0.35	0.26
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	0.97	0.43	2.26	0.46	0.26
	7) At risk for PPU	1.51	0.43	3.52	0.72	8.22×10 ⁻³
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	0.54	0.39	1.40	0.26	0.80

Note. P-value adjusted for comparing a family of 7

* p < .05, ** p < .01

Table S54. Pairwise comparisons and effect sizes across profiles for BFI (Conscientiousness) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk	2) Low risk	0.69	0.12	5.79	0.38	< .001
	(3) At risk for religious-based MI	0.07	0.18	0.40	0.04	0.99
	(4) At risk for co-occurring PPU and religious-based MI	1.13	0.19	5.95	0.62	< .001
	5) At risk for PPU	1.08	0.17	6.25	0.59	< .001
2) Low risk	(3) At risk for religious-based MI	-0.62	0.20	-3.17	0.34	0.01
	(4) At risk for co-occurring PPU and religious-based MI	0.44	0.20	2.18	0.24	0.19
	5) At risk for PPU	0.38	0.18	2.08	0.21	0.23
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	1.06	0.24	4.32	0.58	< .001
	5) At risk for PPU	1.00	0.23	4.33	0.55	< .001
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	-0.06	0.24	-0.23	0.03	1.00

Note. P-value adjusted for comparing a family of 5

Table S55. Pairwise comparisons and effect sizes across profiles for BFI (Conscientiousness) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.10	0.27	0.36	0.05	1.00
	3) Low risk	0.37	0.15	2.52	0.21	0.15
	4) Moderate risk for PPU	1.01	0.18	5.53	0.56	< .001
	(5) At risk for religious-based MI)	0.26	0.30	0.89	0.15	0.97
	(6) At risk for co-occurring PPU and religious-based MI)	0.63	0.25	2.49	0.35	0.17
	7) At risk for PPU	1.38	0.25	5.41	0.77	< .001
2) Not at risk, high frequency	3) Low risk	0.28	0.28	1.00	0.15	0.95
	4) Moderate risk for PPU	0.92	0.30	3.10	0.51	0.03
	(5) At risk for religious-based MI)	0.17	0.38	0.44	0.09	1.00
	(6) At risk for co-occurring PPU and religious-based MI)	0.53	0.34	1.55	0.29	0.72
	7) At risk for PPU	1.28	0.34	3.72	0.71	3.97×10 ⁻³
	4) Moderate risk for PPU	0.64	0.19	3.38	0.36	0.01
3) Low risk	(5) At risk for religious-based MI)	-0.11	0.30	-0.36	0.06	1.00
	(6) At risk for co-occurring PPU and religious-based MI)	0.25	0.26	0.99	0.14	0.96
	7) At risk for PPU	1.00	0.26	3.88	0.56	2.18×10 ⁻³
4) Moderate risk for PPU	(5) At risk for religious-based MI)	-0.75	0.32	-2.34	0.42	0.23
	(6) At risk for co-occurring PPU and religious-based MI)	-0.39	0.28	-1.38	0.21	0.81
	7) At risk for PPU	0.36	0.28	1.29	0.20	0.85
(5) At risk for religious-based MI)	(6) At risk for co-occurring PPU and religious-based MI)	0.36	0.36	1.00	0.20	0.96
	7) At risk for PPU	1.11	0.37	3.04	0.62	0.04
(6) At risk for co-occurring PPU and religious-based MI)	7) At risk for PPU	0.75	0.33	2.27	0.42	0.26

Note. P-value adjusted for comparing a family of 7

Table S56. Pairwise comparisons and effect sizes across profiles for BFI (Agreeableness) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk	2) Low risk	0.35	0.13	2.72	0.18	0.05
	(3) At risk for religious-based MI	0.32	0.20	1.62	0.16	0.49
	(4) At risk for co-occurring PPU and religious-based MI	0.48	0.20	2.37	0.25	0.12
	5) At risk for PPU	0.66	0.18	3.59	0.34	3.11×10 ⁻³
2) Low risk	(3) At risk for religious-based MI	-0.03	0.21	-0.13	0.01	1.00
	(4) At risk for co-occurring PPU and religious-based MI	0.13	0.21	0.62	0.07	0.97
	5) At risk for PPU	0.31	0.20	1.60	0.16	0.50
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	0.16	0.26	0.62	0.08	0.97
	5) At risk for PPU	0.34	0.25	1.38	0.18	0.64
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.18	0.25	0.72	0.09	0.95

Note. P-value adjusted for comparing a family of 5

* p < .05, ** p < .01

Table S57. Pairwise comparisons and effect sizes across profiles for BFI (Agreeableness) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{Tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	-0.39	0.27	-1.44	0.22	0.78
	3) Low risk	0.19	0.15	1.28	0.11	0.86
	4) Moderate risk for PPU	0.47	0.18	2.57	0.26	0.14
	(5) At risk for religious-based MI	0.25	0.30	0.86	0.14	0.98
	(6) At risk for co-occurring PPU and religious-based MI	0.05	0.25	0.19	0.03	1.00
	7) At risk for PPU	0.88	0.25	3.47	0.49	9.77×10 ⁻³
	3) Low risk	0.58	0.27	2.11	0.32	0.35
2) Not at risk, high frequency	4) Moderate risk for PPU	0.86	0.29	2.92	0.48	0.06
	(5) At risk for religious-based MI	0.64	0.37	1.71	0.36	0.61
	(6) At risk for co-occurring PPU and religious-based MI	0.44	0.34	1.28	0.24	0.86
	7) At risk for PPU	1.26	0.34	3.70	0.71	4.29×10 ⁻³
	4) Moderate risk for PPU	0.28	0.19	1.48	0.16	0.76
3) Low risk	(5) At risk for religious-based MI	0.07	0.30	0.22	0.04	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-0.14	0.26	-0.55	0.08	1.00
	7) At risk for PPU	0.69	0.26	2.67	0.38	0.11
	4) Moderate risk for PPU	-0.21	0.32	-0.67	0.12	0.99
(5) At risk for religious-based MI	(6) At risk for co-occurring PPU and religious-based MI	-0.42	0.28	-1.52	0.24	0.73
	7) At risk for PPU	0.41	0.28	1.47	0.23	0.77
	(6) At risk for co-occurring PPU and religious-based MI	-0.21	0.36	-0.57	0.12	1.00
(6) At risk for co-occurring PPU and religious-based MI	7) At risk for PPU	0.62	0.36	1.71	0.35	0.61
	7) At risk for PPU	0.83	0.33	2.53	0.46	0.15

Note. P-value adjusted for comparing a family of 7

* p < .05, ** p < .01

Table S58. Pairwise comparisons and effect sizes across profiles for BFI (Neuroticism) (Sample 1)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk	2) Low risk	-0.65	0.14	-4.48	0.29	< .001
	(3) At risk for religious-based MI	-0.50	0.22	-2.25	0.23	0.16
	(4) At risk for co-occurring PPU and religious-based MI	-1.34	0.23	-5.84	0.61	< .001
	5) At risk for PPU	-1.30	0.21	-6.26	0.59	< .001
2) Low risk	(3) At risk for religious-based MI	0.15	0.24	0.62	0.07	0.97
	(4) At risk for co-occurring PPU and religious-based MI	-0.69	0.24	-2.86	0.31	0.04
	5) At risk for PPU	-0.65	0.22	-2.95	0.30	0.03
(3) At risk for religious-based MI	(4) At risk for co-occurring PPU and religious-based MI	-0.84	0.30	-2.83	0.38	0.04
	5) At risk for PPU	-0.80	0.28	-2.86	0.36	0.03
(4) At risk for co-occurring PPU and religious-based MI	5) At risk for PPU	0.04	0.28	0.13	0.02	1.00

Note. P-value adjusted for comparing a family of 5

Table S59. Pairwise comparisons and effect sizes across profiles for BFI (Neuroticism) (Sample 2)

		Mean Difference	SE	t	Cohen's d	p _{tukey}
1) Not at risk, sporadic user	2) Not at risk, high frequency	0.26	0.32	0.82	0.12	0.98
	3) Low risk	-0.73	0.17	-4.20	0.35	< .001
	4) Moderate risk for PPU	-1.17	0.21	-5.45	0.56	< .001
	(5) At risk for religious-based MI	-0.33	0.35	-0.94	0.15	0.97
	(6) At risk for co-occurring PPU and religious-based MI	-0.62	0.30	-2.09	0.29	0.36
	7) At risk for PPU	-1.29	0.30	-4.33	0.61	< .001
	3) Low risk	-0.99	0.32	-3.07	0.47	0.04
2) Not at risk, high frequency	4) Moderate risk for PPU	-1.43	0.35	-4.13	0.68	< .001
	(5) At risk for religious-based MI	-0.59	0.44	-1.32	0.28	0.84
	(6) At risk for co-occurring PPU and religious-based MI	-0.88	0.40	-2.19	0.42	0.30
	7) At risk for PPU	-1.55	0.40	-3.85	0.74	2.44×10 ⁻³
	4) Moderate risk for PPU	-0.44	0.22	-1.99	0.21	0.42
3) Low risk	(5) At risk for religious-based MI	0.40	0.35	1.14	0.19	0.92
	(6) At risk for co-occurring PPU and religious-based MI	0.11	0.30	0.36	0.05	1.00
	7) At risk for PPU	-0.56	0.30	-1.85	0.27	0.51
	(5) At risk for religious-based MI	0.85	0.38	2.25	0.40	0.27
4) Moderate risk for PPU	(6) At risk for co-occurring PPU and religious-based MI	0.55	0.33	1.69	0.26	0.62
	7) At risk for PPU	-0.12	0.33	-0.37	0.06	1.00
	(6) At risk for co-occurring PPU and religious-based MI	-0.29	0.43	-0.69	0.14	0.99
(5) At risk for religious-based MI	7) At risk for PPU	-0.97	0.43	-2.25	0.46	0.27
	(6) At risk for co-occurring PPU and religious-based MI	-0.67	0.39	-1.74	-0.32	0.59

Note. P-value adjusted for comparing a family of 7

Figure S1. Spearman correlations among study variables: Sample 1, Profile 1 (Not at risk)

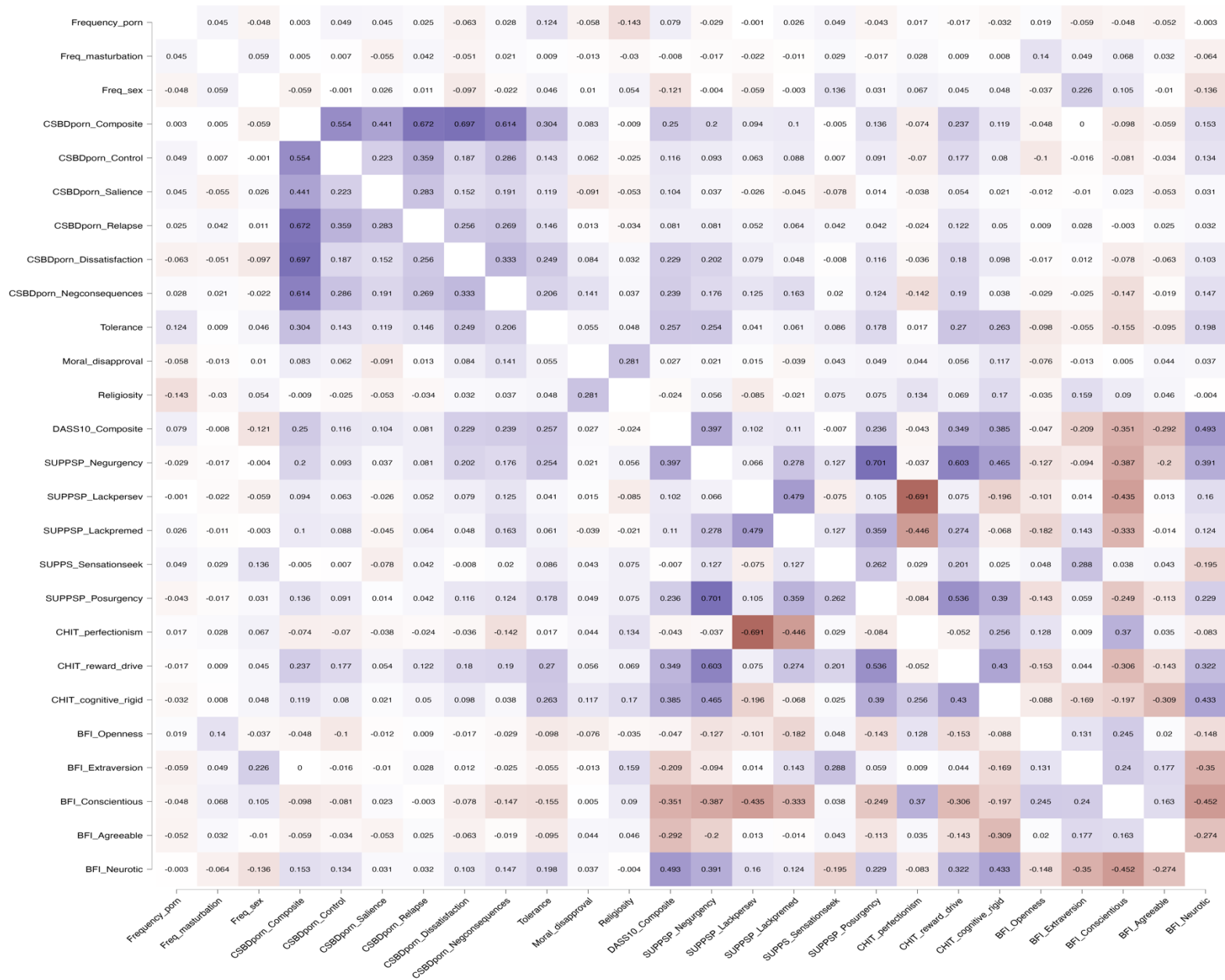


Figure S2. Spearman correlations among study variables: Sample 1, Profile 2 (Low risk)

Frequency_porn		0.102	-0.02	-0.026	0.023	-0.036	0.138**	-0.05	-0.094	0.014	-0.136**	-0.118*	-0.025	-0.06	-0.011	0.038	-0.003	-0.091	-0.023	0.037	-0.09	0.039	-0.001	-0.04	0.021	0.007
Freq_masturbation	0.102		0.045	0.002	0.006	-0.114*	-0.02	0.009	0.048	0.043	0.004	-0.015	0.052	0.046	0.058	0.073	-0.003	-0.007	-0.065	0.04	-0.056	0.004	0.045	-0.035	0.013	0.051
Freq_sex	-0.02	0.045		-0.032	0.058	-0.036	0.041	-0.06	-0.061	0.08	-0.008	0.073	-0.094	0.029	-0.015	-0.023	0.119*	0.115*	0.058	0.019	-0.045	-0.093	0.187***	0.083	0.058	-0.08
CSBDporn_Composite	-0.026	0.002	-0.032		0.397***	0.357***	0.249***	0.504***	0.713***	0.006	-0.017	-0.062	0.119*	0.201***	0.098	0.158**	0.052	0.195***	-0.121*	0.131*	0.064	0.011	0.053	-0.105*	-0.052	0.043
CSBDporn_Control	0.023	0.006	0.058	0.397***		-0.016	0.243***	-0.044	0.118*	0.023	0.006	0.008	-0.003	0.027	0.051	0.066	0.062	0.031	-0.078	0.078	-0.064	0.046	0.019	-0.057	0.001	-0.049
CSBDporn_Salience	-0.036	-0.114*	-0.036	0.357***	-0.016		-0.031	-0.067	0.162**	-0.021	-0.071	-0.066	-0.077	0.119*	0.02	0.179***	-0.048	0.268***	0.028	0.011	0.034	0.017	0.054	0.062	-0.057	-0.063
CSBDporn_Relapse	0.138**	-0.02	0.041	0.249***	0.243**	-0.031		0.003	-0.162**	-0.1	-0.086	-0.074	-0.101	-0.138**	-0.095	-0.165**	-0.097	-0.185***	0.099	-0.056	-0.059	0.043	-0.046	0.074	0.084	-0.066
CSBDporn_Dissatisfaction	-0.05	0.009	-0.06	0.504***	-0.044	-0.067	0.003		0.142**	0.074	0.007	-0.043	0.199***	0.135*	0.074	-0.004	0.002	0.018	-0.156**	0.084	0.067	-0.075	-0.001	-0.121*	-0.015	0.082
CSBDporn_Negconsequences	-0.094	0.048	-0.061	0.713***	0.118*	0.162**	-0.162**	0.142**		-0.031	0.04	0.004	0.109*	0.192***	0.176**	0.24**	0.098	0.228**	-0.146**	0.106*	0.074	0.009	0.075	-0.114*	-0.072	0.078
Tolerance	0.014	0.043	0.08	0.006	0.023	-0.021	-0.1	0.074	-0.031		0.025	0.024	0.175***	0.114*	0.003	0.033	0.009	0.068	0.03	0.185***	0.081	-0.083	0.076	0.016	-0.089	0.072
Moral_disapproval	-0.136**	0.004	-0.008	-0.017	0.006	-0.071	-0.086	0.007	0.04	0.025		0.273***	0.101	0.053	-0.075	0.119*	0.029	0.076	0.024	-0.011	-0.059	-0.004	-0.042	0.028	0.061	-0.029
Religiosity	-0.118*	-0.015	0.073	-0.062	0.008	-0.066	-0.074	-0.043	0.004	0.024	0.273***		-0.087	-0.011	-0.13*	0.104*	0.11*	0.085	0.072	-0.055	-0.017	0.016	0.226***	0.143**	0.086	-0.141**
DASS10_Composite	-0.025	0.052	-0.094	0.119*	-0.003	-0.077	-0.101	0.199***	0.109*	0.175***	0.101	-0.087		0.361***	0.125*	0.051	-0.032	0.177***	-0.116*	0.274***	0.327***	-0.055	-0.175***	-0.328***	-0.145**	0.53***
SUPPSP_Negurgency	-0.06	0.046	0.029	0.201***	0.027	0.119*	-0.138**	0.135*	0.192***	0.114*	0.053	-0.011	0.361***		0.032	0.241***	0.158**	0.625***	-0.063	0.468***	0.336***	0.03	0.038	-0.199***	-0.186***	0.334***
SUPPSP_Lackpersev	-0.011	0.058	-0.015	0.098	0.051	0.02	-0.095	0.074	0.176***	0.003	-0.075	-0.13*	0.125*	0.032		0.457***	-0.148**	-0.016	-0.649***	0.152**	-0.277***	-0.139**	-0.007	-0.435***	0.005	0.182***
SUPPSP_Lackpremed	0.038	0.073	-0.023	0.158**	0.066	0.179***	-0.165**	-0.004	0.24***	0.033	0.119*	0.104*	0.051	0.241***	0.457***		0.101	0.301***	-0.374***	0.279***	-0.194***	-0.103	0.075	-0.246***	-0.044	0.02
SUPPS_Sensationseek	-0.003	-0.003	0.119*	0.052	0.062	-0.048	-0.097	0.002	0.098	0.009	0.029	0.11*	-0.032	0.158**	-0.148**	0.101		0.262***	0.029	0.109*	0.008	0.142**	0.207***	0.105*	-0.088	-0.181***
SUPPSP_Posurgency	-0.091	-0.007	0.115*	0.195***	0.031	0.268***	-0.185***	0.018	0.228**	0.068	0.076	0.085	0.177***	0.625***	-0.016	0.301***	0.262***		-0.065	0.426***	0.21***	0.006	0.119*	-0.15**	-0.092	0.131*
CHIT_perfectionism	-0.023	-0.065	0.058	-0.121*	-0.078	0.028	0.099	-0.156**	-0.146**	0.03	0.024	0.072	-0.116*	-0.063	-0.649***	-0.374***	0.029	-0.065		-0.108*	0.304***	0.103	-0.012	0.401***	0.011	-0.132*
CHIT_reward_drive	0.037	0.04	0.019	0.131*	0.078	0.011	-0.056	0.084	0.106*	0.185***	-0.011	-0.055	0.274***	0.468***	0.152**	0.279***	0.109*	0.426***	-0.108*		0.287***	-0.028	0.044	-0.221***	-0.137**	0.254***
CHIT_cognitive_rigid	-0.09	-0.056	-0.045	0.064	-0.064	0.034	-0.059	0.067	0.074	0.081	-0.059	-0.017	0.327***	0.336**	-0.277***	-0.194***	0.008	0.21***	0.304***	0.287***		0.015	-0.097	-0.088	-0.196**	0.307***
BFI_Openness	0.039	0.004	-0.093	0.011	0.046	0.017	0.043	-0.075	0.009	-0.083	-0.004	0.016	-0.055	0.03	-0.139**	-0.103	0.142**	0.006	0.103	-0.028	0.015		0.111*	0.166**	0.017	-0.006
BFI_Extraversion	-0.001	0.045	0.187***	0.053	0.019	0.054	-0.046	-0.001	0.075	0.076	-0.042	0.226**	-0.175***	0.038	-0.007	0.075	0.207***	0.119*	-0.012	0.044	-0.097	0.111*		0.157**	0.09	-0.258**
BFI_Conscientious	-0.04	-0.035	0.083	-0.105*	-0.057	0.062	0.074	-0.121*	-0.114*	0.016	0.028	0.143**	-0.328***	-0.199***	-0.435***	-0.246***	0.105*	-0.15**	0.401***	-0.221***	-0.088	0.166**	0.157**		0.037	-0.387***
BFI_Agreeable	0.021	0.013	0.058	-0.052	0.001	-0.057	0.084	-0.015	-0.072	-0.089	0.061	0.086	-0.145**	-0.188***	0.005	-0.044	-0.088	-0.092	0.011	-0.137**	-0.196***	0.017	0.09	0.037		-0.166**
BFI_Neurotic	0.007	0.051	-0.08	0.043	-0.049	-0.063	-0.066	0.082	0.078	0.072	-0.029	-0.141**	0.53***	0.334**	0.182**		0.02	-0.181***	0.131*	-0.132*	0.254***	0.307***	-0.006	-0.258**	-0.387***	-0.166**
Frequency_porn																										
Freq_masturbation																										
Freq_sex																										
CSBDporn_Composite																										
CSBDporn_Control																										
CSBDporn_Salience																										
CSBDporn_Relapse																										
CSBDporn_Dissatisfaction																										
CSBDporn_Negconsequences																										
Tolerance																										
Moral_disapproval																										
Religiosity																										
DASS10_Composite																										
SUPPSP_Negurgency																										
SUPPSP_Lackpersev																										
SUPPSP_Lackpremed																										
SUPPS_Sensationseek																										
SUPPSP_Posurgency																										
CHIT_perfectionism																										
CHIT_reward_drive																										
CHIT_cognitive_rigid																										
BFI_Openness																										
BFI_Extraversion																										
BFI_Conscientious																										
BFI_Agreeable																										
BFI_Neurotic																										

Figure S3. Spearman correlations among study variables: Sample 1, Profile 3: At risk for religious-based MI

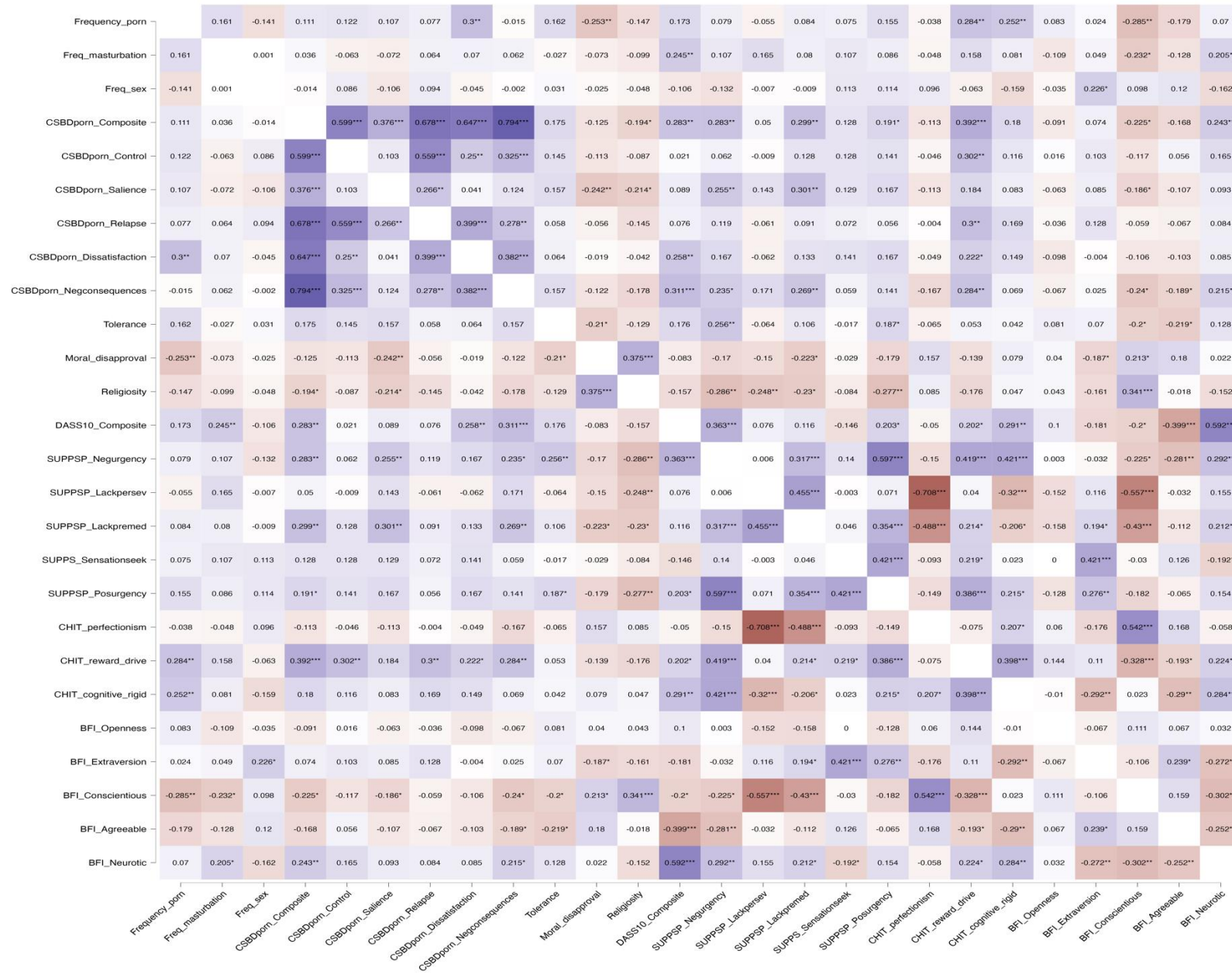


Figure S4. Spearman correlations among study variables: Sample 1, Profile 4:At risk for co-occurring PPU and religious-based MI

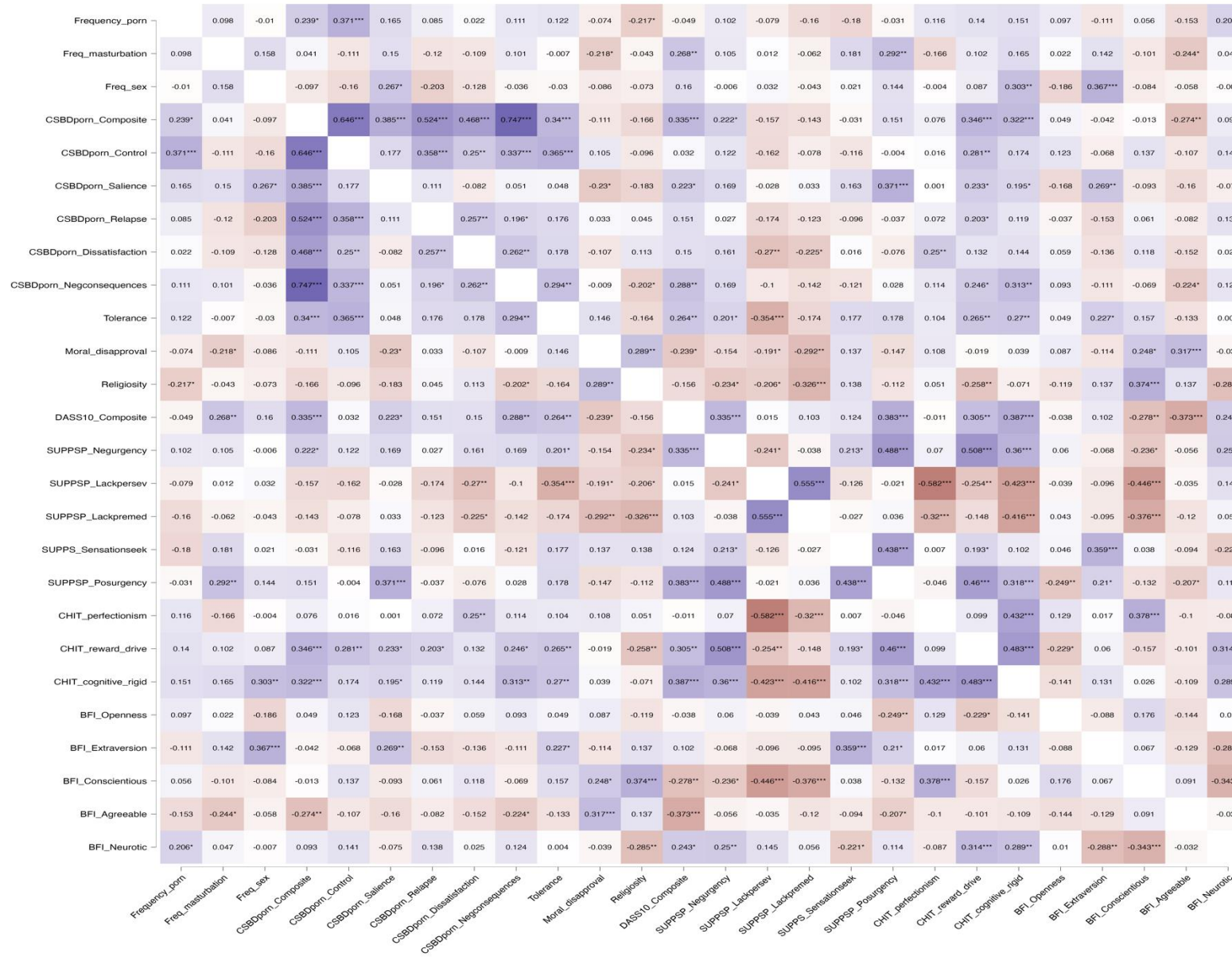


Figure S7. Spearman correlations among study variables: Sample 2, Profile 2: Not at risk, high frequency user

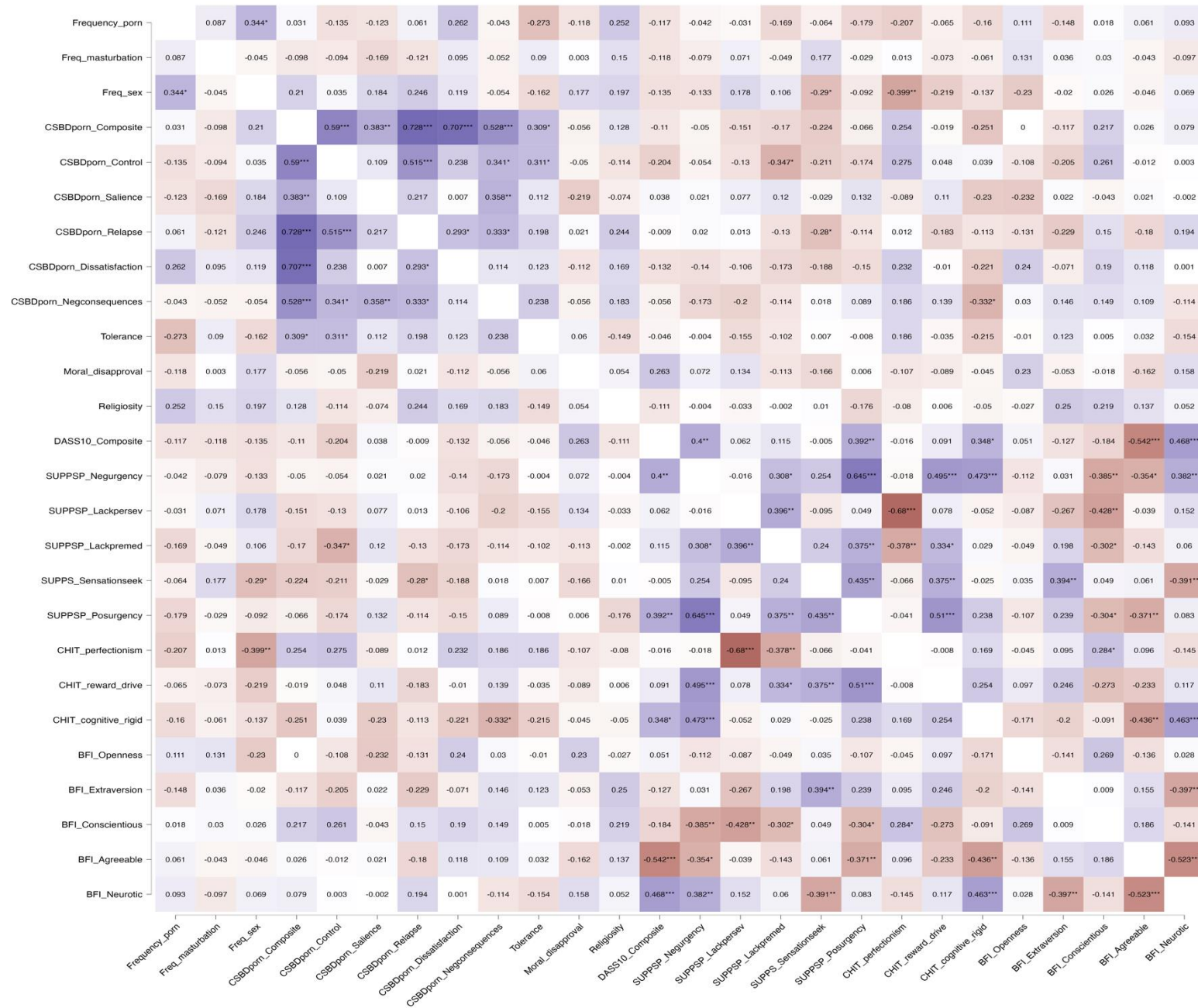


Figure S8. Spearman correlations among study variables: Sample 2, Profile 3: Low risk

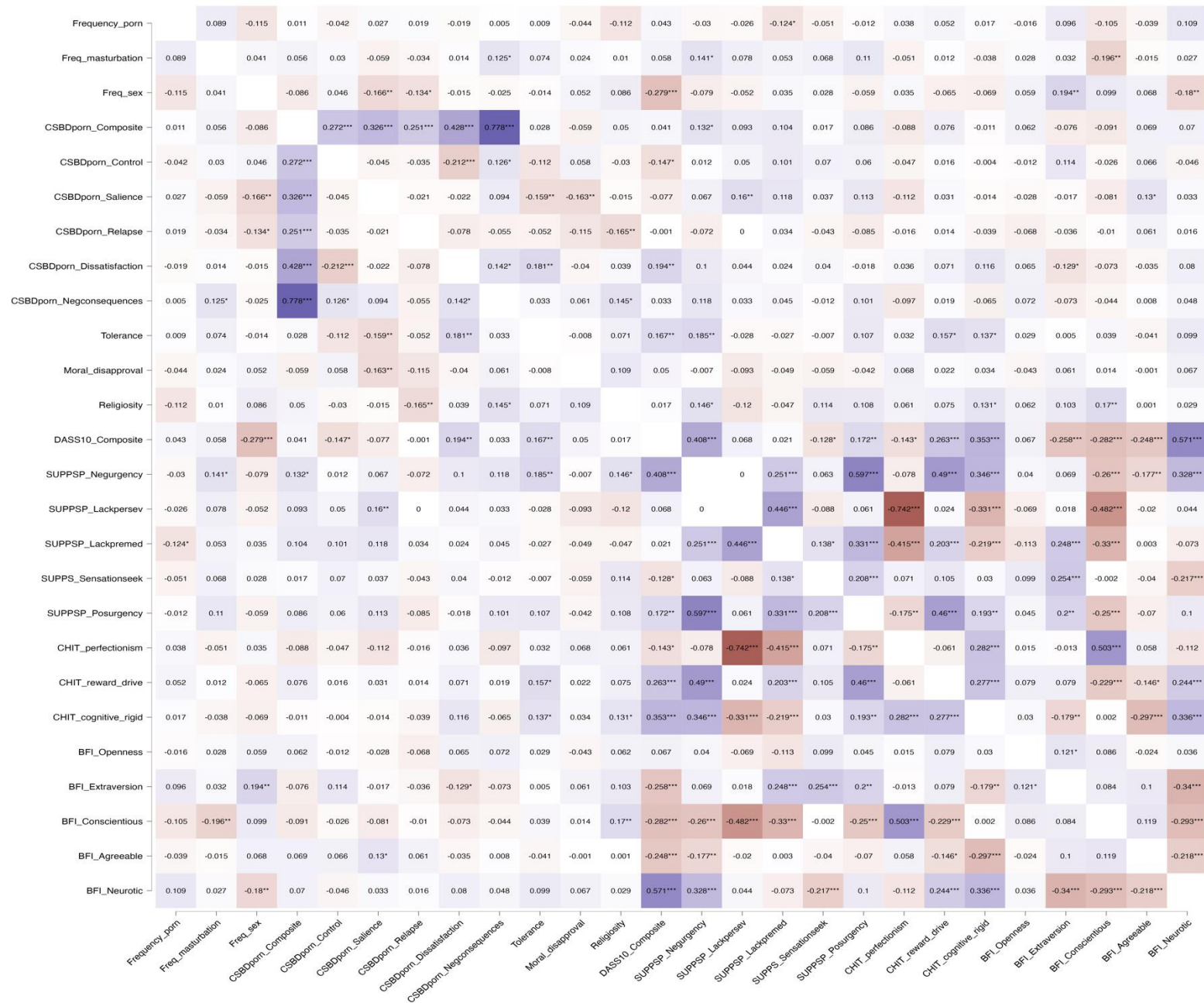


Figure S9. Spearman correlations among study variables: Sample 2, Profile 4: Moderate risk for PPU

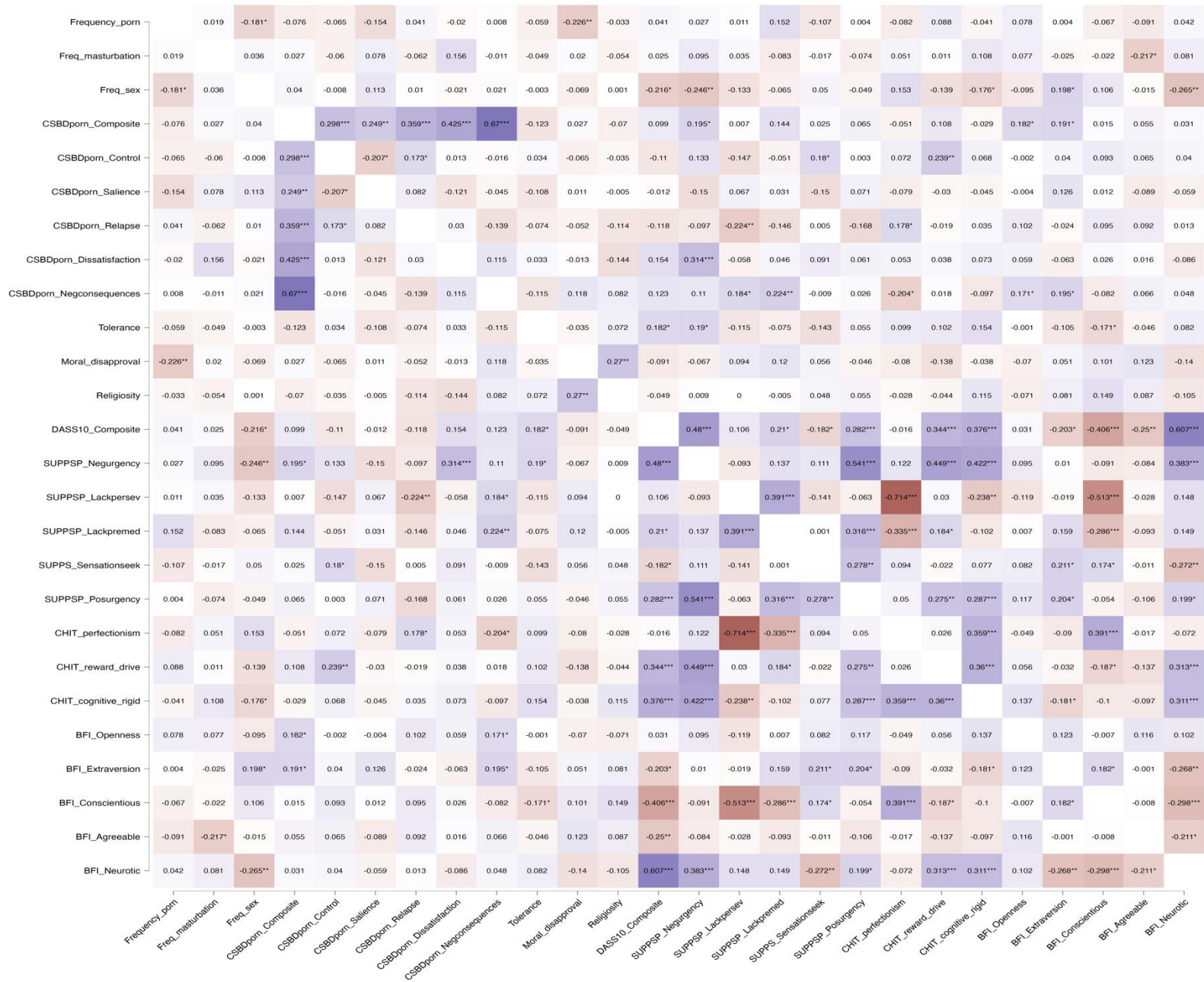


Figure S11. Spearman correlations among study variables: Sample 2, Profile 6; At risk for co-occurring PPU and religious-based MI

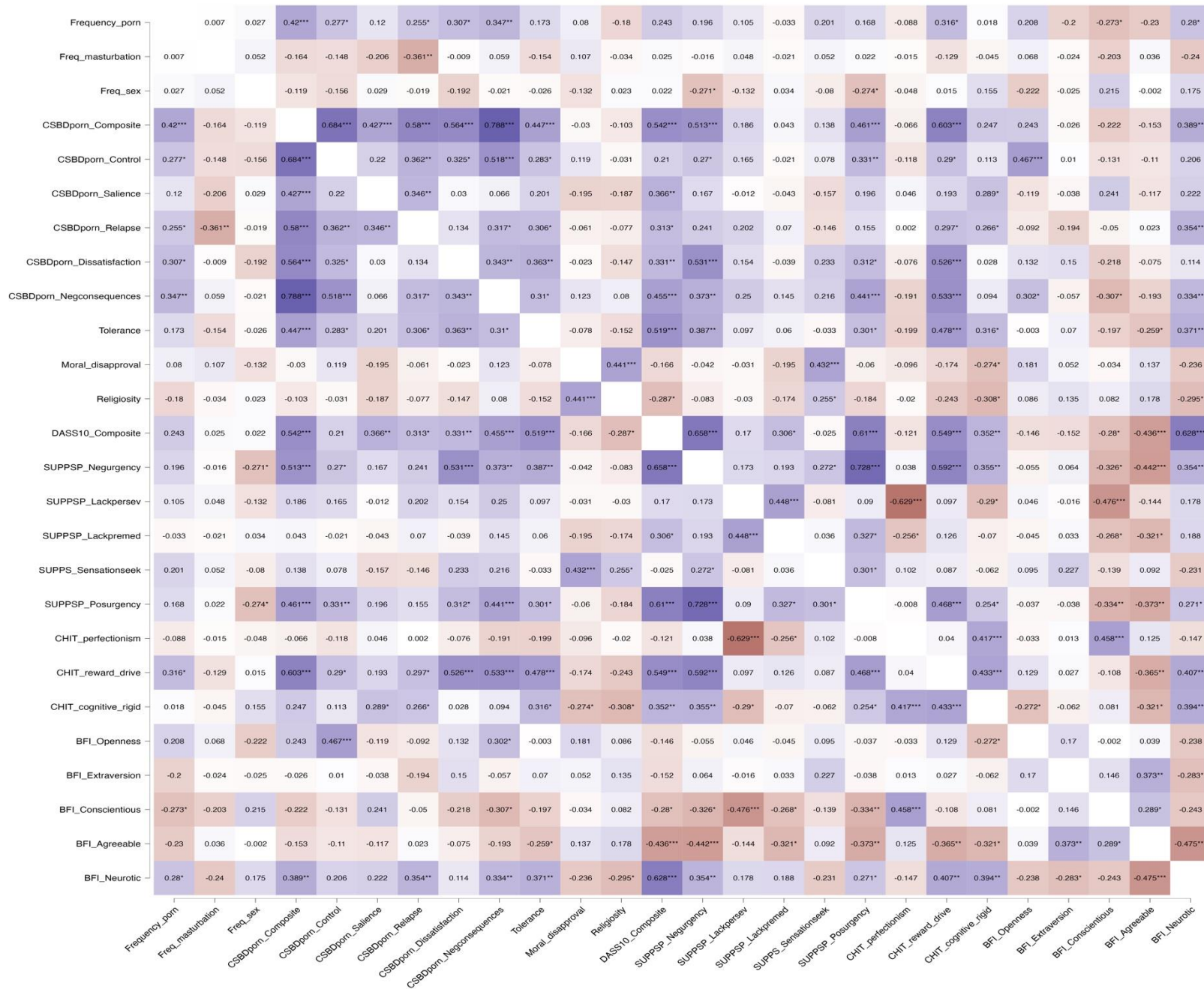


Figure S12. Spearman correlations among study variables: Sample 2, Profile 7: At risk for PPU

