

Supplemental materials for submitted article, “Diverse Diagnostic Profiles Associated with Prescription Opioid Use Disorder in a Nationwide Sample: One Crisis, Multiple Needs”

Table S1

*Observed Values for Bayesian Information Criterion and Entropy for All Models Considered*

*During the Class Enumeration Process*

Number of Classes	BIC	Difference in BIC from Prior Class Model	Entropy
1	272101.16	-	-
2	248076.793	24024.37	0.78
3	244509.742	3567.05	0.81
4	241922.672	2587.07	0.76
5	240972.493	950.18	0.77
6	240438.528	533.96	0.77
7	240259.143	179.38	0.75
8	240122.765	136.38	0.75
9	240119.934	2.83	0.77
10	240106.062	13.87	0.77
11	240134.28	-28.22	0.77
12	240192.163	-57.88	0.79

*Note.* BIC=Bayesian Information Criterion

Table S2

*Class Membership as a Predictor of Functional Impairment*

Scale	Class	Qualitative Description	P-ODD Rate	Mean Score	X <sup>2</sup>	p-value <sup>a</sup>
SF-12 Physical Component Summary	1	Mentally Healthy	Low	50.66	NA	NA
	2	Depressed	Low	45.59	37.21	<.001
	3	Alcohol-Tobacco	Low	46.84	63.36	<.001
	4	Alcohol-Tobacco-Cocaine	Elevated	39.28	41.45	<.001
	5	Internalizing	Elevated	45.46	25.67	<.001
	6	Bipolar	Elevated	47.52	16.16	<.001
	7	Polysubstance/Elevated Psychopathology	Very High	48.12	15.15	<.001
	8	Polysubstance/Very High Psychopathology	Very High	49.53	11.07	0.001
SF-12 Mental Component Summary	1	Mentally Healthy	Low	53.71	NA	NA
	2	Depressed	Low	38.46	465.13	<.001
	3	Alcohol-Tobacco	Low	45.63	531.79	<.001
	4	Alcohol-Tobacco-Cocaine	Elevated	32.41	184.67	<.001
	5	Internalizing	Elevated	44.61	74.88	<.001
	6	Bipolar	Elevated	40.49	299.80	<.001
	7	Polysubstance/Elevated Psychopathology	Very High	42.24	299.20	<.001
	8	Polysubstance/Very High Psychopathology	Very High	50.63	94.90	<.001
SF-12 Bodily Pain Scale	1	Mentally Healthy	Low	51.84	NA	NA
	2	Depressed	Low	41.82	98.72	<.001
	3	Alcohol-Tobacco	Low	45.17	195.31	<.001
	4	Alcohol-Tobacco-Cocaine	Elevated	34.99	86.43	<.001
	5	Internalizing	Elevated	43.51	51.82	<.001
	6	Bipolar	Elevated	43.20	86.59	<.001
	7	Polysubstance/Elevated Psychopathology	Very High	44.87	79.66	<.001
	8	Polysubstance/Very High Psychopathology	Very High	49.24	66.79	<.001

*Note:* SF-12= Short Form Health Survey Version 2 (Ware et al., 2002)

<sup>a</sup>No *p*-values are available for class 1, as this was the reference class to which all other classes were compared. All observed *p*-values were significant after false discovery rate adjustment.