Assessing Comorbid Behavioral Health Conditions, Healthcare Resource Utilization, and Medication Use in Patients Seeking Mental Health Care within a Large, Representative Real-World Multiple Sclerosis Registry

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Background

- Multiple sclerosis (MS) has previously been associated with increased prevalence of behavioral health conditions compared to the general population, particularly depression and anxiety^{1, 2}
- Behavioral health conditions are thought to be underdiagnosed and undertreated for patients with MS¹
- Additional research is needed to understand the true burden of behavioral health conditions for patients with MS

Objective

• To describe comorbid behavioral health conditions, healthcare resource utilization (HCRU), and medication use among patients with MS who were seeking mental health care (SMHC) in a real-world MS registry

Methods

- Data were derived from the OM1 MS Registry (OM1, Boston, MA), a multisource real-world registry with linked healthcare claims and electronic medical records data on patients with MS in the United States from 2013-2021
- The first observed MS diagnosis date was considered the index date
- All patients with MS SMHC were included
 - SMHC was defined as having any encounter with a behavioral health specialist, a behavioral health-related procedure code, or a record for a behavioral healthrelated medication on or after index
- Patient characteristics were assessed on or before index, while comorbidities, HCRU, and medication use included data postindex



Results

• Of 19,133 patients with MS, 15,384 patients (80.4%) were SMHC

• Patients with MS SMHC were on average 49.3 years old (standard deviation [SD]: 12.5), 78.4% female, 62.2% White, 3.9% Hispanic or Latino, 43.9% had commercial insurance, and 7.3% were current smokers (**Table 1**)

• Most patients with MS SMHC had a behavioral health comorbidity (71.3%) - with anxiety disorders (42.4%), depression (40.9%), and substance use disorders (37.3%) as the most frequent (**Figure 1**)

• Patients with MS SMHC most frequently saw psychiatrists (28.6%) and had non-substance use related psychotherapy (25.8%)

 Most patients with MS SMHC used behavioral medications (87.8%) - with the highest use for anti-anxiety medications (63.3%), antidepressants (58.1%), and mood stabilizers (46.9%) (**Figure 2**)

Conclusions

- Four out of five patients with MS were SMHC
- Anxiety and depression were the most common behavioral health comorbidities among patients with MS SMHC
- Patients with MS SMHC were frequently treated with behavioral health-related medications



References

- 1. Chwastiak, L.A. and D.M. Ehde, Psychiatric issues in multiple sclerosis. Psychiatr Clin North Am, 2007. 30(4): p. 803-17.
- 2. Davis, B.E., et al., Patient and Provider Insights into the Impact of Multiple Sclerosis on Mental Health: A Narrative Review. Neurology and Therapy, 2021. 10(1): p. 99-119.

		Count (%) or Mean (SD) (N=15,384)
		49.3 (12.5)
	Female Male	12,062 (78.4%) 3,322 (21.6%)
	Asian Black White Other Unknown	68 (0.4%) 1,528 (9.9%) 9,563 (62.2%) 708 (4.6%) 3,517 (22.9%)
	Hispanic/Latino Not Hispanic/Latino Other Unknown	595 (3.9%) 9,783 (63.6%) 25 (0.2%) 4,981 (32.4%)
	Commercial Medicaid Medicare Multiple Other Unknown	6,759 (43.9%) 497 (3.2%) 2,174 (14.1%) 352 (2.3%) 124 (0.8%) 5,478 (35.6%)
	East North Central East South Central Middle Atlantic Mountain New England Pacific South Atlantic West North Central West South Central Unknown	1,631 (10.6%) 580 (3.8%) 2,409 (15.7%) 1,778 (11.6%) 471 (3.1%) 1,552 (10.1%) 3,572 (23.2%) 1,334 (8.7%) 1,809 (11.8%) 248 (1.6%)
5	Yes No/Unknown	1,128 (7.3%) 14,256 (92.7%)
		12.0 (17.7)
		75.6 (24.5)
		4.6 (1.8) 11,187 (72.7%)
	r nact index	

Table 1. Characteristics of Patients with MS SMHC

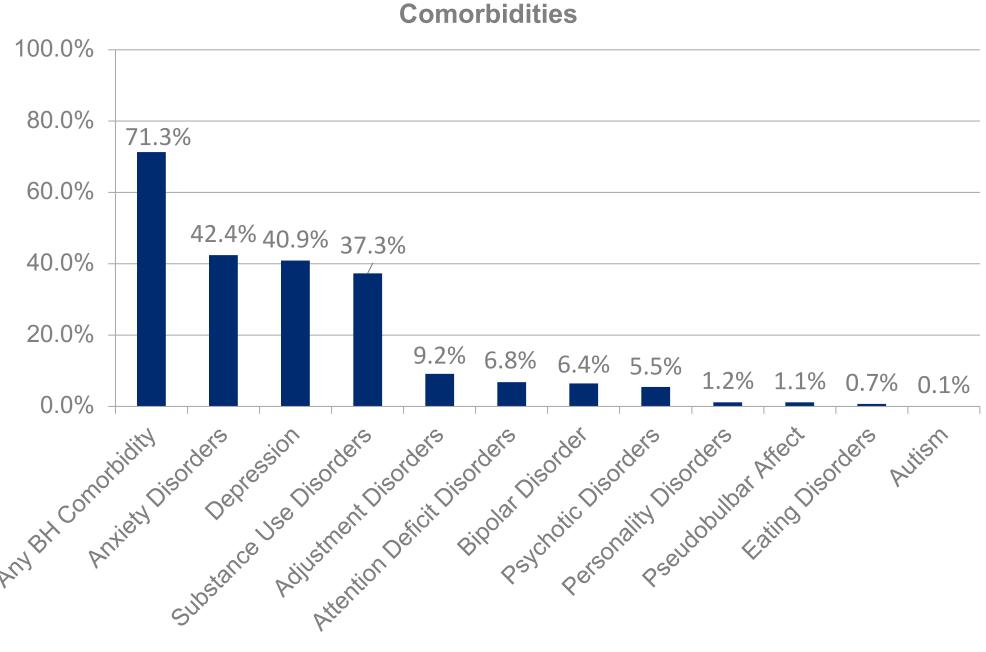
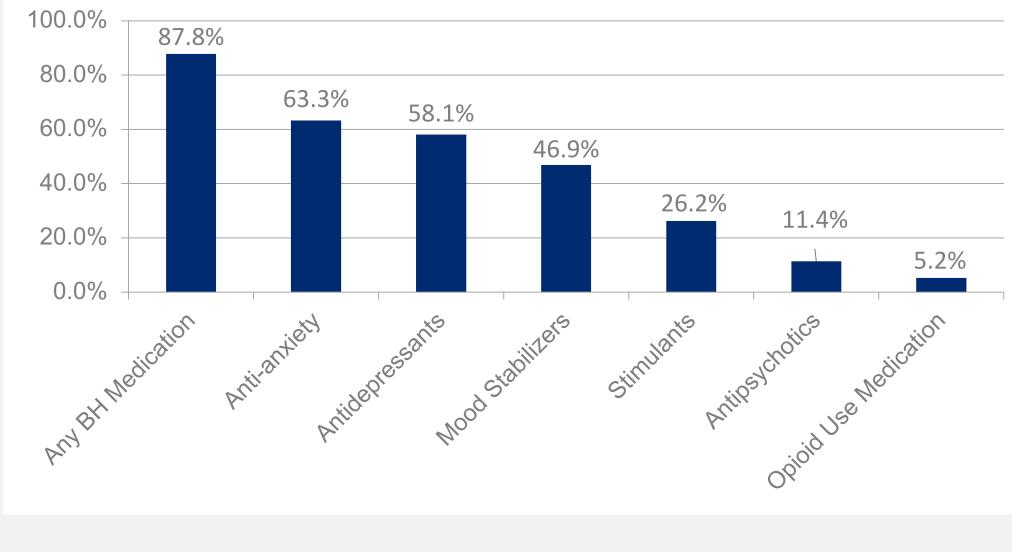


Figure 2. Proportion of Patients with MS SMHC with Behavioral Health (BH) Medication



Disclosures All authors are employees of OM1 Inc. which is involved in matters related to this poster



Figure 1. Proportion of Patients with MS SMHC with Behavioral Health (BH)