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Introduction

- Catatonia is a potentially life-threatening neuropsychiat that is widely underdiagnosed.¹
- Clinicians who encounter patients with catatonia must l clinical features to ensure prompt recognition and treatr
- Roughly half of catatonia in the acute medical setting is underlying medical or neurological condition.²
- Acute care practitioners in internal medicine and neurol the first clinicians to encounter patients with catatonia.

Goals

Survey what internists and neurologists know/think about *Raise catatonia awareness among internists and neurolog Inform future educational campaigns across specialties.

Methods

Online study divided into 2 parts

- 1. Pre-learning module
 - Catatonia Experience, Impressions, and Applica Questionnaire \rightarrow yields separate knowledge sco attitudes assessment.
 - Standardized test patient scoring with the Bush Catatonia Rating Scale (BFCRS).

2. Learning module (30 minutes)

* Recruitment

✤ X/Twitter, Academic society newsletters and message Enriched by snowballing.

Inclusion criteria: Self-identified residents, fellows, atte advanced practice providers in internal medicine and ne

✤ Analysis

- ✤ Characterize the sample.
- Evaluate whether knowledge scores and BFCRS test were associated with participant characteristics.
- Evaluate association between responses on attitudes and likelihood of completing subsequent study modu
- Compare BFCRS test patient scores from current stu with scores from psychiatry clinicians in a prior study



What Internists and Neurologists Know and Think About Catatonia

Results

tric syndrome be aware of its ment planning. s due to an logy are often ut catatonia.	 Most participants were attendings (74% within their first 15 years of practice (4 <u>Knowledge scores</u> Mean correct (SD): 11 ± 2 (82%) of Performance <u>did not differ</u> based of gender, age range, or years in practi <u>Attitudes assessment</u> 56 (97%) agreed, "Practitioners in r catatonia." 54 (93%) agreed, "It would be bene more training on catatonia." 		
gists.	Table 1: Sample Ch		
	Demographics	Demographics	Qu
eations fore and a Francis ge boards. endings, and eurology.	Stage of training ResidentFellowAttendingPA or NPSpecialty Neurology Internal medicineYears in practice $0-5$ $6-10$ $11-15$ $16-20$ $21-25$ > 25 Age range $26-30$ $31-40$ $41-50$ $51-60$ $61-70$ Woman	$\begin{array}{c} 9 (14\%) \\ 1 (2\%) \\ 49 (77\%) \\ 5 (8\%) \\ \hline 41 (64\%) \\ 23 (36\%) \\ \hline 36 (56\%) \\ 13 (20\%) \\ 8 (13\%) \\ 3 (5\%) \\ 1 (2\%) \\ 3 (5\%) \\ 1 (2\%) \\ 3 (5\%) \\ \hline 10 (16\%) \\ 33 (52\%) \\ \hline 10 (16\%) \\ 33 (52\%) \\ \hline 16 (25\%) \\ 2 (3\%) \\ 3 (5\%) \\ \hline 40 (63\%) \end{array}$	
assessments ales. ady participants aly. ³	 Results (cont Participant attrition (Figure 1) Attitudes assessment Likert-scaled responses were not as completing the next module. BFCRS test patient scores Mean correct (SD): 13.6 ± 2.6 (59%) Performance did not differ based o gender, age range, or years in practi The current cohort identified fewer psychiatry cohort³ (vs. 16.3, p < 0.0) Disclosure The authors report no conflicts of interest. This project was supported by the Universi Department of Psychiatry. MO is supported by the National Institute of the section of		
Scored BFCRS test patient 38			

%), neurologists (66%), and 66%) (**Table 1**)

ut of a possible 13 points on specialty, stage of training, ce

my specialty need to know about

eficial for my practice to receive

aracteristics

stionnaire eted ($n = 58$)	Scored BFCRS Test Patient $(n = 38)$
0 (16%)	5 (13%)
1 (2%)	1 (3%)
3 (74%)	28 (74%)
5 (9%)	4 (11%)
8 (66%)	27 (71%)
0 (35%)	11 (29%)
0 (52%)	22 (58%)
0	6 (16%)
8 (14%)	5 (13%)
3 (5%)	2 (5%)
1 (2%)	0
6 (27%)	3 (8%)
0 (16%)	6 (16%)
8 (48%)	18 (48%)
6 (27%)	9 (24%)
2 (3%)	2 (5%)
3 (5%)	3 (8%)
6 (62%)	24 (63%)

inued)

ssociated with likelihood of

6) out of a possible 23 points. on specialty, stage of training, ce.

items correct than a prior 001; **Figure 2**).

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* *p*-value < 0.05, ** *p*-value < 0.001

and internists.

- Most participants did correctly identify medical sequelae and firstline treatment of catatonia.
- Only half (53%) of participants correctly identified what proportion of catatonia has a secondary (medical or neurological) cause.
- Catatonia knowledge scores did not vary by participant stage of training, specialty, or years in practice.
- catatonia than practitioners in internal medicine or neurology.
- Psychiatry practitioners appear to be more accurate at identifying The low participation rate and high attrition, despite widespread affirmation by participants of catatonia's importance to their specialty, likely reflects attitudes about catatonia.
- Our results call for broader education on catatonia recognition and greater awareness of catatonia across specialties.

- Walther S, Strik W. Catatonia. *CNS Spectr*. 2016;21(4):341-348. doi:10.1017/S1092852916000274. Medical Cause and the Relative Proportions of Its Causes: A Systematic Review. *Psychosomatics*. 2018;59(4):333-340. doi:10.1016/j.psym.2018.04.001. Wortzel JR, Maeng DD, Francis A, Oldham MA. Prevalent Gaps in Understanding the Features of Catatonia Among Psychiatrists, Psychiatry Trainees, and Medical Students. J Clin Psychiatry.
- 2. Oldham MA. The Probability That Catatonia in the Hospital has a 2021;82(5):21m14025. doi:10.4088/JCP.21m14025.





Conclusions

• We identified gaps in catatonia-related knowledge among neurologists

References