



Rethinking outcomes: A novel approach to gathering outcomes data

CE Outcomes, LLC and Sunovion Pharmaceuticals Inc.

1 Novel Outcomes Approach

CHALLENGE: CME outcomes metrics are often limited to a single educational initiative, which creates a challenge when attempting to assess outcomes across multiple IME grants to understand overall educational impact.

GOAL: This outcomes study was conducted to gain a broad understanding of the impact CME activities associated with 10 Sunovion supported IME grants on knowledge and practice of neurologists in the management of patients with Parkinson's Disease (PD) experiencing "OFF" episodes. The study allowed for an independent assessment of educational impact while identifying areas for continued education.

2 Methods

A case-vignette survey was developed to assess current practice patterns, knowledge, and attitudes toward managing OFF episodes in patients with PD.

How were participants identified?

- Sunovion provided a list of supported IME grants with activities occurring over the previous 12 months
- Questions were included at the start of the survey to assess if respondents had participated in any programs

The survey was sent via email to a random sample of US neurologists during June 2021. Neurologists had to be currently managing patients with PD.

3 Critical Success Factors

There were several factors that were critical to executing this approach to assessing outcomes

1. Having a broad reach to US clinician audiences with the survey logic and screening capabilities to identify participants across programs that have occurred over the 12-month period of activities that were included in this assessment.

2. Working with clinical experts to ensure the survey cases and questions were clinically relevant and data gathered represented practice elements that affect patient care.

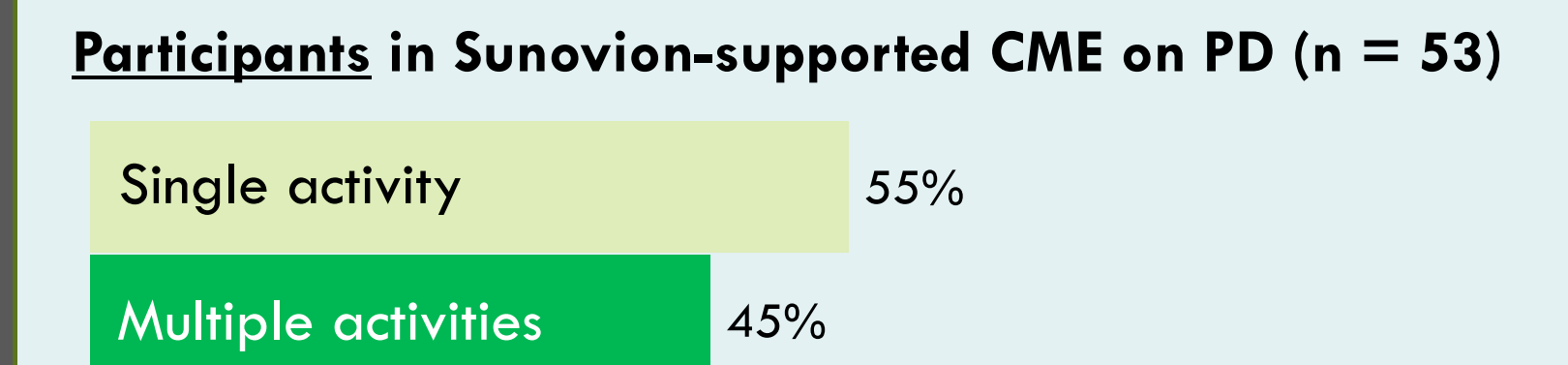
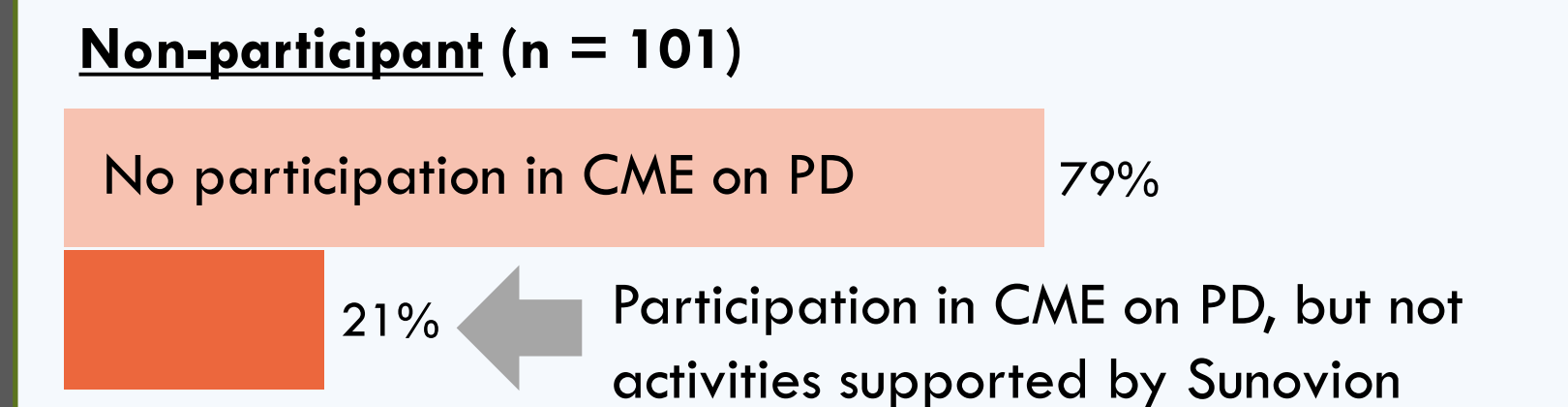
4 Clinical Background

For patients with PD, OFF episodes, or periods of symptom return or worsening, can occur predictably or unpredictably. As PD progresses, many patients experience OFF episodes. Several newer therapies to manage OFF episodes have emerged over the past few years.

CME has played an important role for clinicians regarding identification of OFF episodes, becoming familiar with new and emerging treatments, and best approaches for individualizing management.

5 Identifying Participants

258 neurologists accessed the survey; completing questions about CME participation. 1 in 5 identified as a participant in at least one of the activities associated with the grants supported by Sunovion.



A quota of 101 non-participants was set, additional non-participants screened out.

6 Respondent Demographics

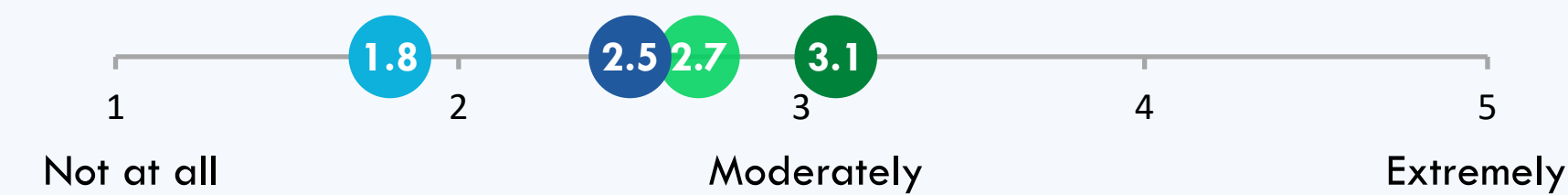
The sample was split into general neurologists and movement disorder specialists (MDS) to better understand differences associated with education for each group.

	Neuro NP (n = 84)	Neuro P (n = 25)	MDS NP (n = 17)	MDS P (n = 28)
Patients with PD seen per week; mean	9	16	28	32
Years of practice; mean	17	17	15	18
In academic practice (%)	29%	32%	53%	57%

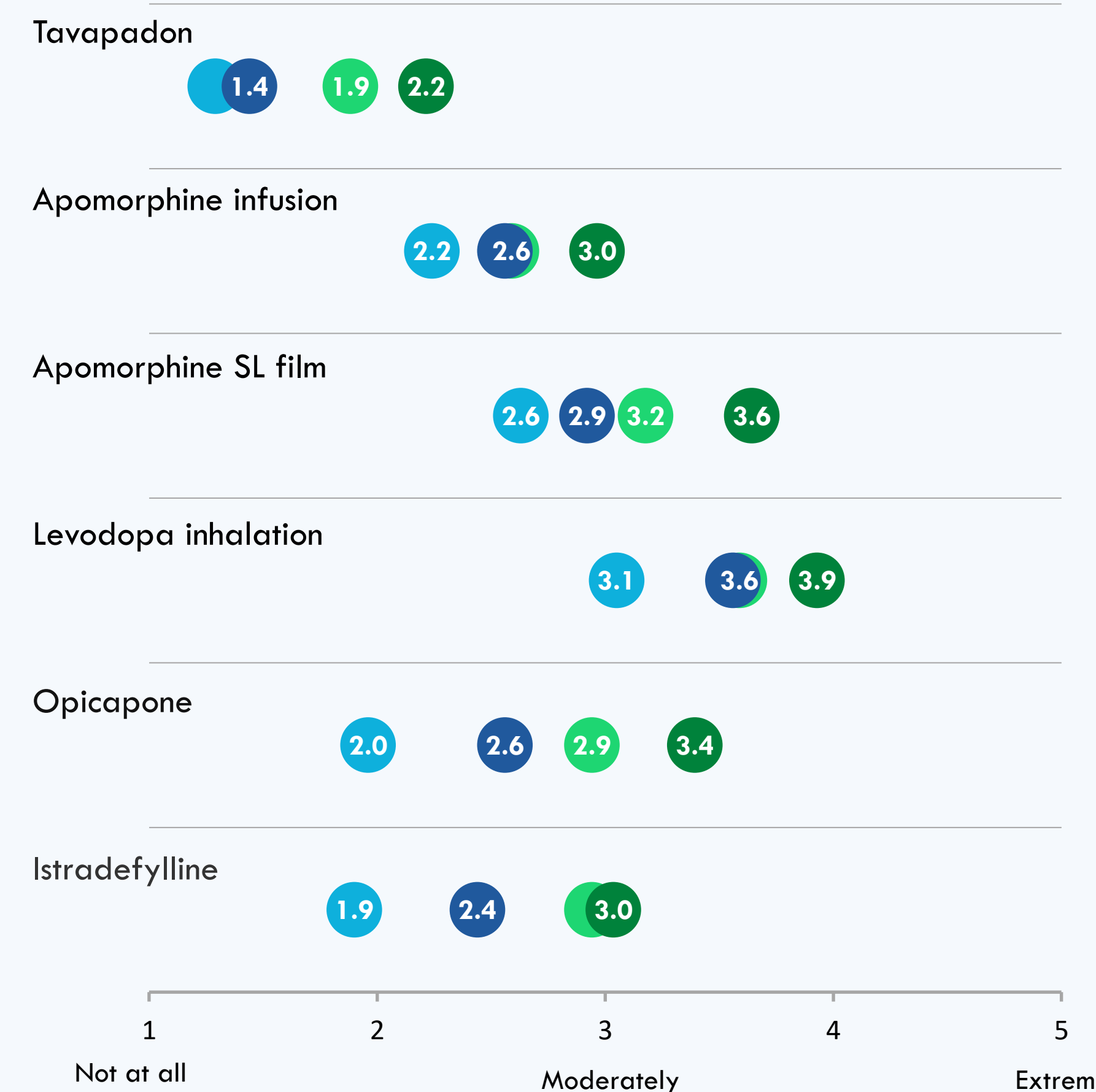
7 Educational Impact

In comparing non-participant (NP) and participant (P) responses, the impact of education was seen relative to several key points among both general neurologists and MDS: Increased likelihood to utilize a standard tool when assessing OFF symptoms and higher reported familiarity with new therapies for managing OFF episodes. Additionally for MDS increases were seen in: Likelihood to use adjunctive or on-demand therapy for a patient with unpredictable OFF episodes and in confidence in aspects of managing patients with PD.

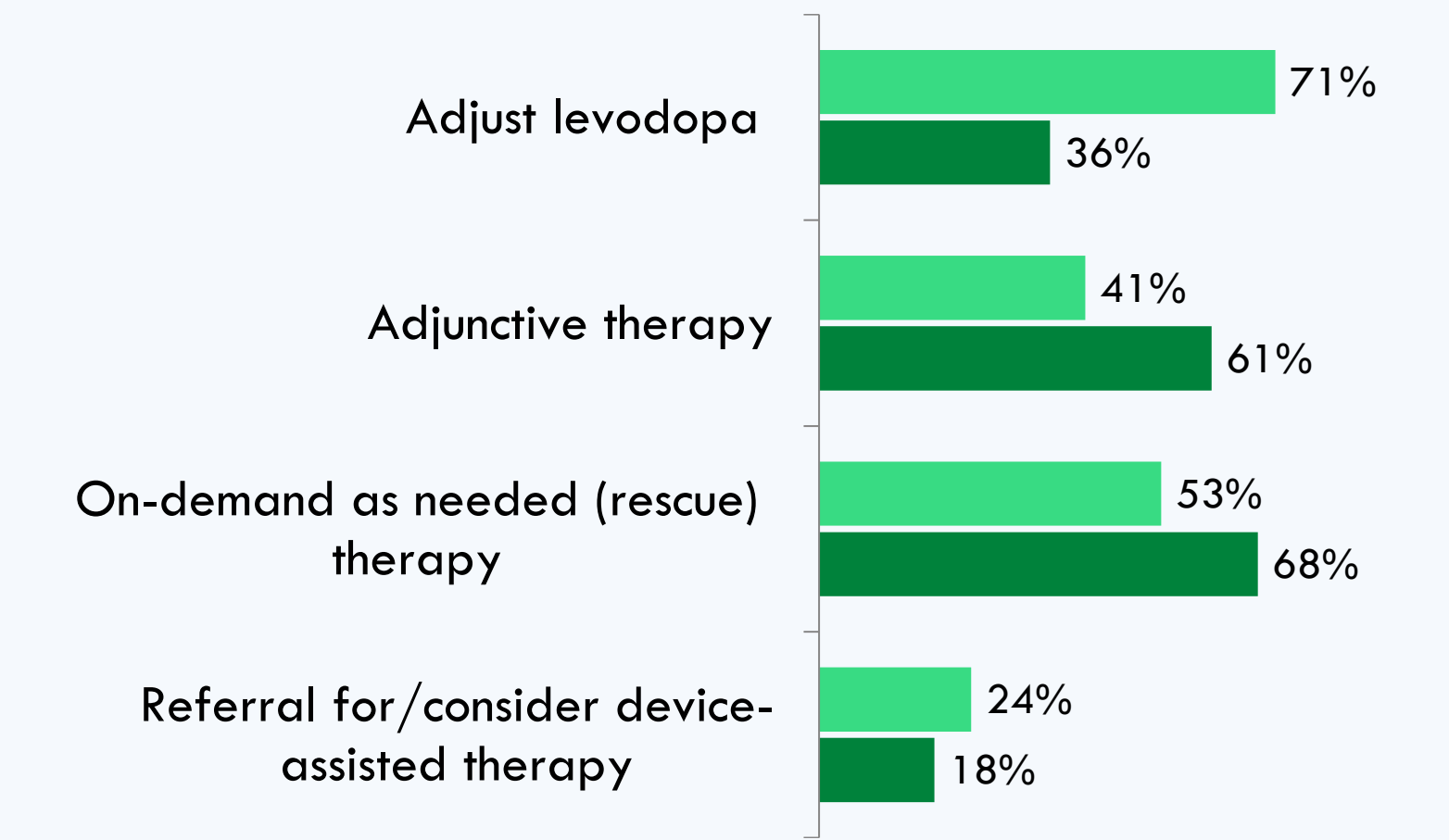
How likely are you to use a rating scale to evaluate a patient presenting with "OFF" symptoms?



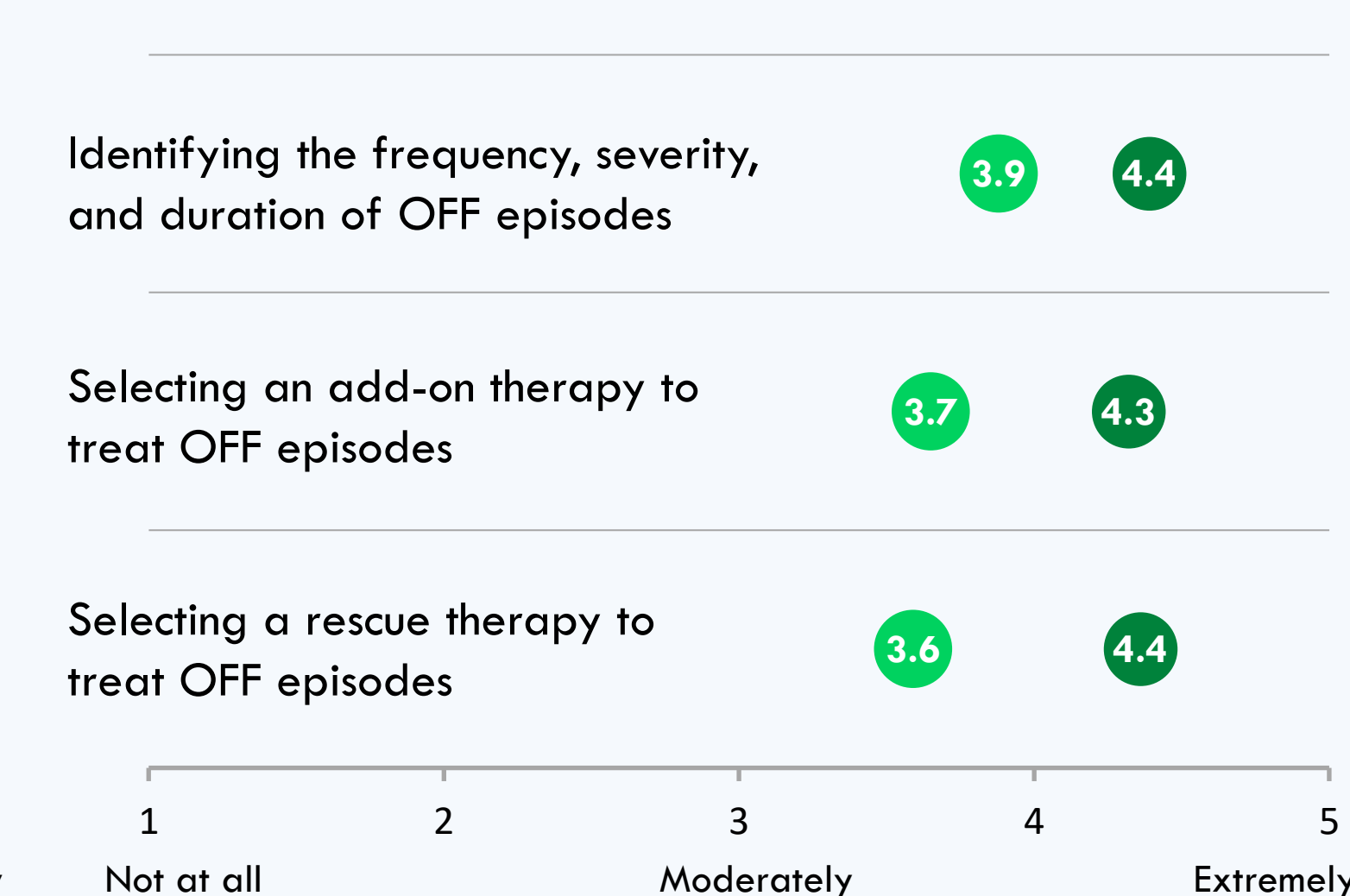
Self-reported familiarity with new therapies for OFF episodes in PD



Approach to managing a 68-year-old woman with a 9-year history of PD currently taking carbidopa/levodopa 25/100 mg 1 1/2 tablets four times daily who is experiencing unexpected, unpredictable episodes that involve bradykinesia, rigidity, and imbalance.



Self-reported confidence in aspects of managing OFF episodes in patients with PD



8 Implications

This approach to assessing outcomes provides data beyond the individual activity level to demonstrate more broadly how CME support is "moving the needle" to impact clinical practice and improve patient care. This study demonstrated that educational efforts increased knowledge regarding new therapies and enhanced approaches to assessing OFF symptoms in patients with PD. Further, the data allowed for the identification of areas for continued educational need as well as insights into the population of physicians who had not engaged in CME to understand best approaches to engaging a broader population of physician learners.