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INTRODUCTION

• Fatigue is among the most frequent and disabling symptoms in patients with relapsing multiple sclerosis (RMS).¹

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- Patient reported outcomes (PROs) are fundamental to studying fatigue.
- Questions remain regarding MS fatigue and their impacts, and determining the best time frame for data collection e.g., daily assessments versus recall of fatigue as experienced over a 1- or 2-week interval.^{2,3}
- In an ongoing non-interventional prospective study of RMS patients recruited via an online survey, we addressed these questions by measuring responses on the validated RMS-specific Fatigue Symptoms and Impacts Questionnaire-Relapsing Multiple Sclerosis (FSIQ-RMS) and examining the relation between daily fatigue assessment and a 7-day recall assessment.
- Patients completed questionnaires including disease history, disease status, sleep, social and emotional functioning.

OBJECTIVES

- To use the FSIQ-RMS to measure MS fatigue symptoms and their impact on daily life in a real-world population.
- To compare fatigue symptom data collected daily for 7 days versus a 7-day recall.

METHODS

- The FSIQ-RMS Symptom Diary was administered daily for 7 days [daily recall] and on Day 7 patients recalled their symptoms over the previous 7-day period [7-day recall].
- The FSIQ-RMS Impacts questionnaire was administered on Day 7, using a 7-day recall.
- We evaluated the results of FSIQ-RMS symptom score collected daily to that of the 7-day recall, using mean values to identify agreement between scores and possible sources of bias.
- Additionally, we analyzed the scores for symptom domain and physical, cognitive, and emotional, and coping impacts as well as socio-demographic and disease related data to validate the results of the 7-day recall questionnaire.

A Real World Study Characterizing Impact of Fatigue and Patient Symptom Recall in Adults with Relapsing Multiple Sclerosis

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RESULTS

Relationship between 24-hr-recall and 7-day-recall of FSIQ-RMS symptoms domain

Individual differences:

- 25% of the patients show a smaller mean score Day 1-Day 7 compared to 7-day recall score of > 6.3 points and 10% of >10 points.
- 10% of the patients show a larger mean score Day 1-Day 7 compared to 7-day recall score of > 8.6 points.

Trend over time – adjusted daily scores:

- There is slight tendency of higher correlation of daily score closer to Day 7, but the increase in Spearman's coefficient is very small.
- There is a high internal consistency between the daily scores and the 7-day recall, Cronbach Alpha = 0.954.

Trend over time – adjusted daily individual scores:

- There is slight tendency of higher correlation of daily symptom scores closer to Day 7, but the increase in Spearman's coefficient is very small.
- There is a high internal consistency between the daily symptom scores and the 7-day recall.

CONCLUSIONS

- The FSIQ-RMS is a novel and MS-specific patient reported outcome measure that can advance the understanding and management of fatigue.
- The 7-day recall was consistent with the daily symptom score of Day 1 to Day 7.

RESULTS (Contd.)



Figure 3: FSIQ-RMS symptom score collected daily over 7 days versus 7 day recall



.. Flensner G. BMC Public Health. 2013:13:224; 2. Hudgens S. Value Health. 2019;22(4):453-466; Food and Drug Administration. Guidance for Industry. Patient-reported outcome measures: use in medical produced http://www.fda.gov/downloads/Drugs/Guidces/UCM193282.pdf **Disclosures:**

L. Krupp has received advisory board/consulting fees, travel, and meal allowances, and/or research funding from Sanofi Aventis, Biogen, Novartis, Gerson Lehrman, EMD Serono, Allergan Inc., and Tesaro Inc. She is also a noncompensated consultant and/or advisory board member with Novartis and Celgene and receives royalties for use of the Fatigue Severity Scale by various biopharmaceutical entities. T. Zwingers is a consultant for Cros-NT. M. Ait-Tihyaty, G. Kanevsky, **E. Katz** are employees of Janssen Pharmaceuticals and may hold stock or stock options in Johnson & Johnson. **O. Wilczynski** is an employee of Carenity. **L. Charvet** is an employee of NYU Langone Medical Center and former employee of Janssen Pharmaceutical and may hold stock in Johnson & Johnson.

Poster presented at the Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS) 2022, February 24-26, West Palm Beach, Florida

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- Daily symptom scores were highly variable within patients between Day 1 to Day 7 (25% of the patients have differences between their daily scores of > 38 points on a scale of 0-100).
- However, there was high internal consistency between the daily recall and the 7-day recall (Cronbach Alpha > 0.954 for all daily scores).
- We found a tendency of higher correlation of the 7-day recall score and daily item scores as the data collected was closer to Day 7 (Pearson Correlation Coefficients increasing from 0.75 to 0.85).
- Sociodemographic and clinical characteristics show only a slight influence on 7-day recall.
- The magnitude of impact (no impact, mild-moderate impact, and severe-very severe impact) does not influence the correlation of the 7-day recall and the mean Day 1 to Day 7 symptom score.

Salgo Merin Ricki Eleniikamalil (SIRO Clinpharm Pvt. Ltd, India) provided medical writing assistance and Rob Achenbach (Janssen Global Services, LLC) provided dditional editorial support.



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