

MSProDiscuss™ is a useful tool to aid discussion of multiple sclerosis disease progression: Results from a large, real-world qualitative survey

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Disclosures

Tjalf Ziemssen has received compensation for consulting from Biogen, Bayer, Celgene, Novartis, Roche, Sanofi, and Teva and for research from Bayer, BAT, Biogen, Novartis, Teva, and Sanofi. GG has received compensation for consulting from AbbVie, Actelion, Atara Bio, Biogen, Celgene, Sanofi-Genzyme, Genentech, GlaxoSmithKline, Merck-Serono, Novartis, Roche and Teva, and for research from Biogen, Roche, Merck, Merck-Serono, Novartis, Sanofi-Genzyme and Takeda. He has received personal compensation from Elsevier for serving as an editor on MSARD.

Gavin Giovannoni is a steering committee member on the daclizumab trials for AbbVie, the BG12 and daclizumab trials for Biogen, the fingolimod and siponimod trials for Novartis, the laquinimod trials for Teva and the ocrelizumab trials for Roche. He has also received consultancy fees for advisory board meetings for oral cladribine trials for Merck KGaA and Sanofi-Genzyme, and in relation to DSMB activities for Synthon BV, as well as honoraria for speaking at the Physicians' summit and several medical education meetings. He is also the Co-Chief Editor of Multiple Sclerosis and Related Disorders (Elsevier).

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Background and objective

- Multiple Sclerosis Progression Discussion (**MSProDiscuss™**) tool intended to facilitate physician-patient discussion on MS disease progression and to sensitize about the risk of transitioning from RRMS to SPMS¹⁻³
- The tool is freely available online at www.msprodiscuss.com and on neurocompass educational portal

Objective

To evaluate the usability and usefulness of MSProDiscuss tool in discussing disease progression in daily clinical practice

What is it for?

Supports discussion of the subtle signs suggestive of progression



Developed and validated by MS neurologists



with input from patients



and analyses of large real-world study data¹⁻³

MSProDiscuss includes

A set of weighted questions on patient relapses, symptoms and impacts experienced within the past six months



What does it show?

In the studies used to develop the tool, patients with similar characteristics were considered ...



likely;



possible;



unlikely

... to be showing signs of progression



A usability test in real-world setting



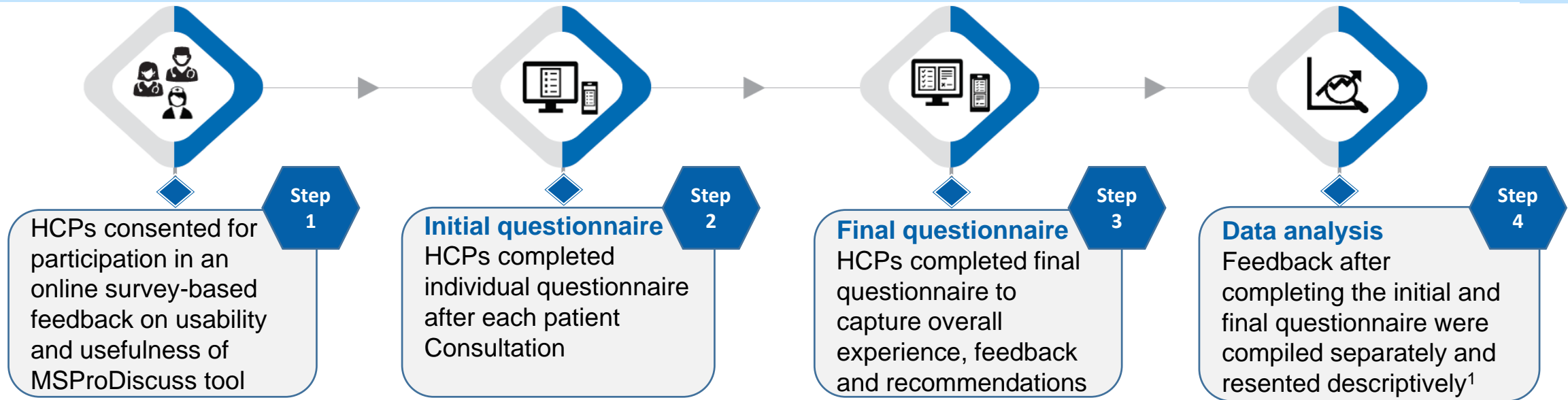
Ready to use in clinical practice



The tool is currently part of several non-interventional studies



Methodology



Target patient population

HCPs used MSProDiscuss on a broad range of MS patients excluding patients with CIS and PPMS

Test parameters

Understanding, usefulness, usability, and integration/ adoption of the MSProDiscuss tool into daily clinical practice

Evaluation parameters

Time needed for completion, comprehensibility of the questions included, usability and usefulness (**initial questionnaire**); additionally, integration into clinical practice (**final questionnaire**)²

¹Both weighted and unweighted percentages were calculated. ²Feedback was provided on a 5-point Likert scale
CIS, clinically isolated syndrome; HCP, healthcare practitioner; MS, multiple sclerosis; PPMS, primary progressive MS



Results

Survey Participants

Global survey: HCPs came from 34 countries



HCPs from North America, Europe, Asia, South America, Africa, and Australia participated in the usability and usefulness testing

There were 301 HCPs who participated in the survey



246
MS specialist
neurologists



25
General
neurologists



23
MS Nurses



6
Neurology nurse
practitioners /
physicians
assistants



1
Other
specialization

Tool was tested
on a large number
of patients



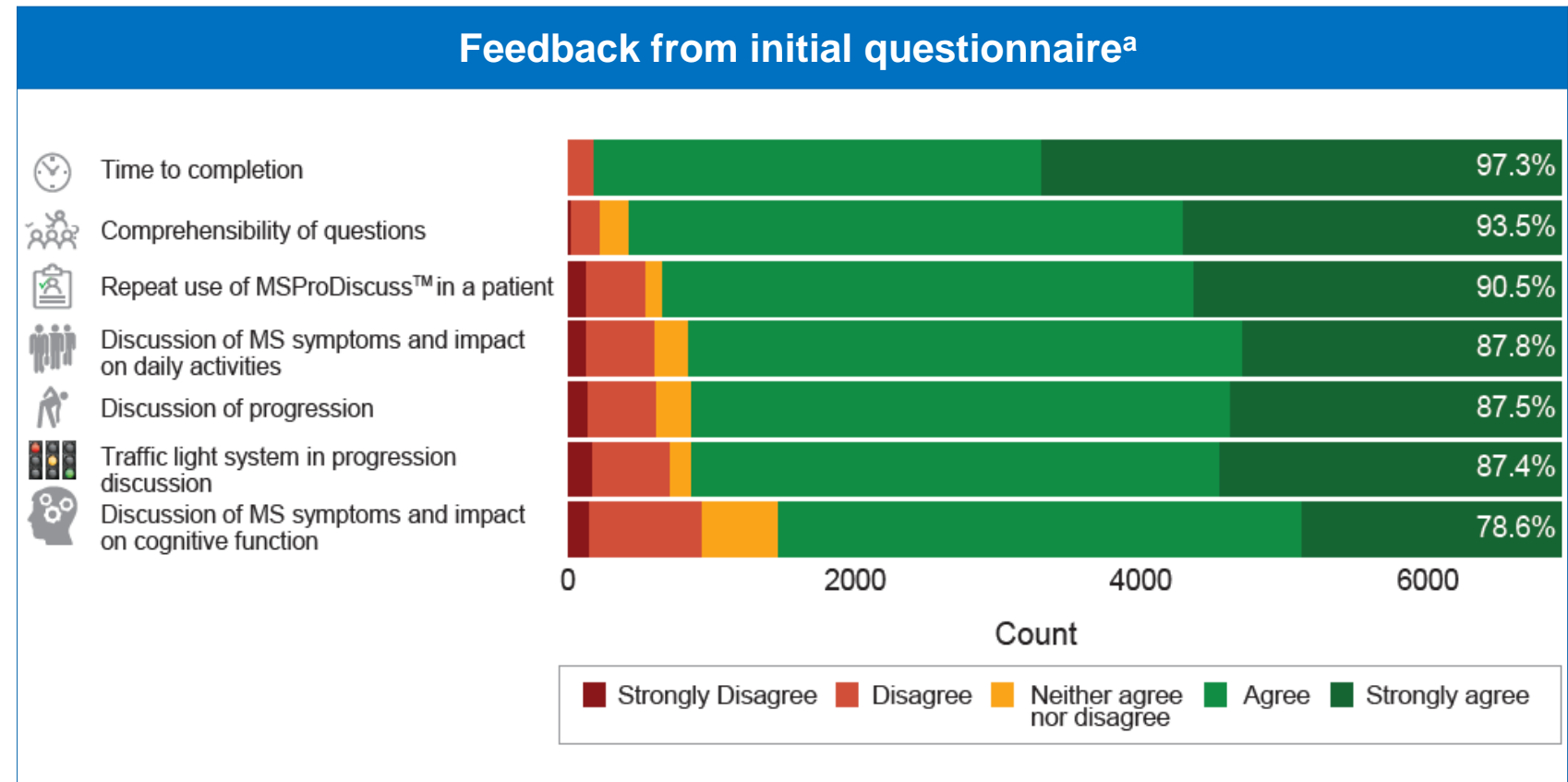
>6974 MS
patients
77% RRMS

- HCPs participated in the online survey to provide their feedback between July and December 2019
- A total of 301 HCPs provided feedback on at least one questionnaire
- The HCPs also provided general feedback and recommendations for further improvement of the tool

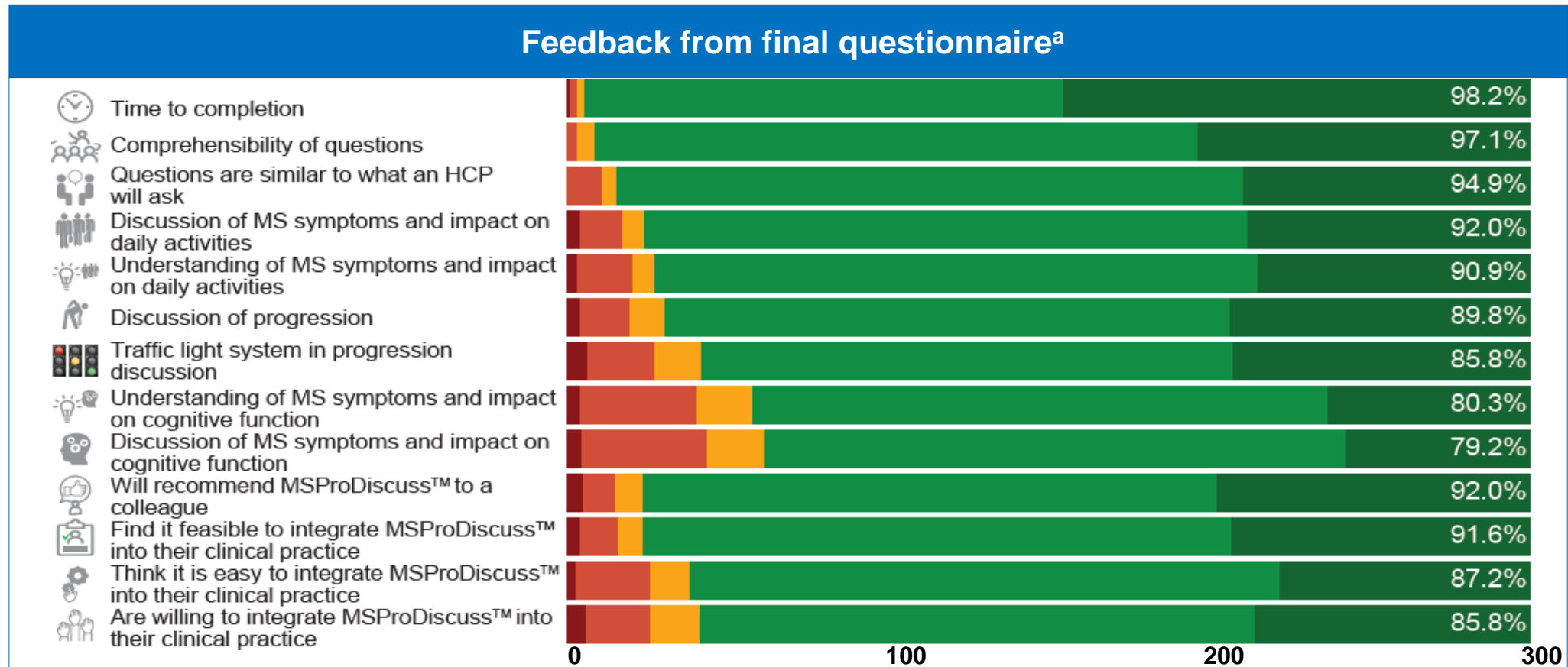


Majority of HCPs agreed or strongly agreed that MSProDiscuss is beneficial in their practice

- In over **97%** of the instances, HCPs indicated that the time taken to complete the tool was considered satisfactory (**1–4 minutes**)
- In **94%** of cases, HCPs felt that the patients understood the questions well
- **91%** were willing to use the tool again in the same patient
- The tool was found useful in discussing disease progression in general, MS symptoms and its impact on daily activities in **88%** of cases and cognitive function in **79%**



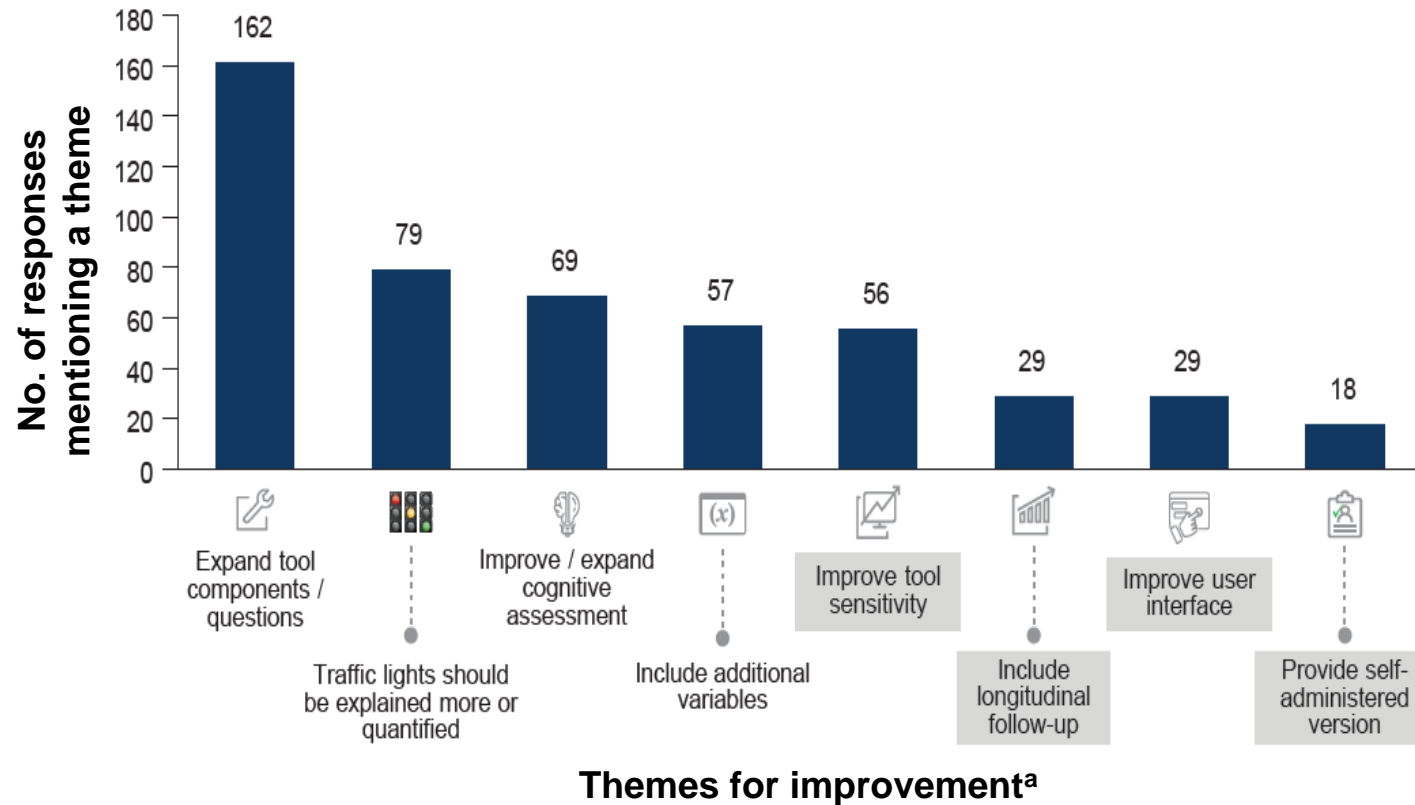
Majority of HCPs think that it is feasible to integrate MSProDiscuss in their daily clinical practice



- Overall feedback was similar to and consistent with the findings from the individual questionnaires
- 9 out of 10 HCPs would recommend MSProDiscuss to a colleague and willing to integrate MSProDiscuss into their clinical practice



Recommendations on possible improvements



Recommendations for expanding MSProDiscuss, including additional variables that can be included

Add time of disease progression or duration of disease

Expand cognitive function and fatigue evaluation

Add adherence to treatment

Add more details on impact of disease on daily activities, e.g., relationships, social, work, sexuality, emotional state, etc.

Include / interface with cognitive assessment scales

HCPs described MSProDiscuss as a “good,” “helpful,” and “easy to use” tool in clinical practice

Several of the recommendations for improvement have already been implemented

^aThe items in grey boxes indicate actions already implemented in the updated version of the MSProDiscuss. A patient-completed “YourMS” questionnaire has been developed
HCP, healthcare practitioner; MS, multiple sclerosis



Feedback and improvements already implemented

Include longitudinal follow-up



Integration of MSProDiscuss in electronic-health record systems are ongoing, which will not only facilitate the tool's use, but also allow easier longitudinal follow-up and better visualization of results

Improve user interface



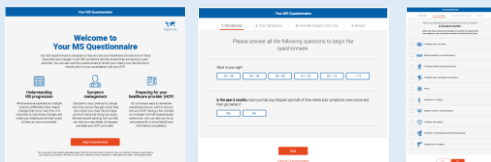
The user interface has been enhanced for easier navigation, and have eliminated any unnecessary interactions for a streamlined, less time-consuming experience

Improve tool sensitivity



The sensitivity of the tool was further improved for patients with lower EDSS scores and with confounding symptoms like fatigue

Provide self-administered version for patients



A patient version of the tool has been created (available at www.yourms.com) which can be pre-filled by the patient, potentially with help from the caregiver. YourMS covers all MS symptoms, and ensures that the patient comes to the consultation prepared



Conclusions

- MSProDiscuss is a usable and useful tool to facilitate physician-patient discussion on disease progression in daily clinical practice by capturing structured disease history
- The findings from this real-world study suggest that:
 - MSProDiscuss is **easy to use** (time taken to complete within routine consultation ranged from 1-4 mins)
 - Questions included in MSProDiscuss are **easy to comprehend by patients**, and are similar to what an HCP would normally ask in a consultation
 - MSProDiscuss is **easy to integrate into clinical practice**

Thank you

