Evaluation of specific unmet medical needs in the care of relapsing MS: Interim analysis of the PROFILE RMS study

Schreiber Herbert¹, Penner Iris-Katharina², Cooper Cornelia³, Hieke-Schulz Stefanie³, Ziemssen Tjalf⁴

¹Neurologische Gemeinschaftspraxis, Neuropoint & NTD, Ulm, Germany; ²Department of Neurology, Medical Faculty Heinrich Heine University Düsseldorf, Germany & COGITO Center Düsseldorf; ³Roche Pharma AG, Grenzach-Wyhlen, Germany; ⁴Clinic of Neurology, Universitätsklinikum Carl Gustav Carus, Dresden, Deutschland

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Background and methods

- The prospective, non-interventional study PROFILE RMS (ML39348) aims to characterize the real-world treatment of patients with RMS (relapsing multiple sclerosis) in five pre-defined profiles with unmet medical needs
- The planned enrollment is ≤1215 patients at ~100 centers in Germany (max 243 patients per profile)
- Patients: ≥18 years old with RRMS (relapsing-remitting MS) or rSPMS (relapsing secondary progressive MS) according to McDonald 2010 criteria
- Primary outcome is 48-week treatment failure rate (defined as confirmed relapse, EDSS progression, MRI activity or treatment change, patients with <48 weeks of observation were censored; n numbers are in figures 1 & 2 of the sup. material provided via QR code)
- Secondary outcomes (measured during the entire observation period) include the proportion of patients with treatment change, patient-reported outcomes, and MS signs and symptoms

Medical need profiles

Disease activity 1
Significant disease rogression
Significant disease functions, injection problems) or findings of theoretical satety the treating physician
Durational Continued relapse, theoretical satety the treating physician
Significant automatical theoretical satety the treating physician
The theoretical theoretical satety the treating physician

4
Treatment-naïve
5
No current treatment bit previously treated with DMT
The theoretical satety the treating physician
The theoretical satety theore

Current and prior medications include: glatiramer acetate, beta-interferons, dimethyl fumarate, teriflunomide, fingolimod, alemtuzumab, natalizumab, neninterferon cladribine, mitoxantrone, ocrelizumab. daclizumab (retrospectively up to 2 March 2018).

Baseline characteristics

 As of 4 November 2020, 691 patients were enrolled and had at least one post-baseline assessment

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Patients with RMS, n	234	112	59	120	166
Median age, years	41.5	42.0	46.0	44.5	44.0
Male sex, n (%)	50 (21.4)	22 (19.6)	16 (27.1)	23 (19.2)	29 (17.5)
Median time since first MS symptoms, years	7.1	11.9	10.8	5.0	13.2
Median time since MS diagnosis, years	6.0	10.8	9.3	0.7	10.7
EDSS, median	2.0	2.0	2.0	1.5	2.0
Completed 1 year in the study. %	88.0	73.2	88.1	60.8	67.5

 4 patients had rSPMS (all female, 3/4 patients in profile 4, and 1 patient in profile 5; with the median age of 66.0 years and 25.8 years median time since MS diagnosis)



Multiple sclerosis is a diverse disease with heterogeneity in activity, symptoms and response to treatment; outcomes show clear differentiation for various profiles of patients with unmet medical needs



Interim data for medical need profiles



"Data relative to entire study duration. AE, adverse vent; DMF, dimethyl fumarate; EDSS, Expanded Disability Status Scale; FSMC, Fatigue Scale for Motor and Cognitive Functions; GA, glatiramer acetate; Gd, gadolinium; HR-QoL, health-related quality of life; KKNMS, Krankheitsbezogenes Kompetenznetz Multiple Stlerose; MRI, magnetic resonance imaging; MS, multiple sclerosis; MSIS, Multiple Sclerosis Impact Scale; 2MWT, 2-Minute Walk Test; PRO, patient-reported outcome; SDMT, Symbol Digit Modalities Test; Terifl, teriflunomide.