Patient-reported outcomes (PRO) are increasingly used to evaluate effectiveness of treatments for Multiple Sclerosis (MS) and they often include an evaluation of health-related quality of life (QoL).

In 2017 the Italian Society of Clinical Pharmacy and Therapeutics (SiFacT) and the National Association of Hospital Pharmacy Students (ReNaSFO) established a join action to update existing data on QoL and its correlation with use of disease-modifying drugs in Italian patients.

Results will be helpful as reference for future studies using PRO.

**DESIGN**
Observational, cross-sectional, multicentered

**CRF**
MS-QOL54
Clinical characteristics: sex, age, MS type, Expanded Disability Status Scale (EDSS), history of pharmacological treatments

**FEASIBILITY**
Ethic approval
Centre specific activities managed by students of Hospital Pharmacy School
Patient informed consent

**STATISTICS**
Spearman correlation test, Anova on ranks for multiple comparison and Mann-Whitney test for simple comparison.

We enrolled 341 patients from 16 centres (median aged 44.1 years; 68.9% women) with relapsing–remitting MS from May 2018 to June 2019
Physical and mental well being were correlated with each other (R=0.826; p<0.001) according to a direct proportionality
Both indexes had an inverse correlation with the degree of EDSS disability (R=0.511, p<0.001 and R=0.344, p<0.001, respectively).
Patients treated with teriflunomide had lower physical QoL scores compared with patients treated with other oral drugs

The study achieved primary and secondary endpoints and indicated a relevant decrease in QoL related to physical health associated with teriflunomide, which deserves further investigations.
We also demonstrated that joint action by a scientific society and a student association was a valuable method to perform a non profit, multicentre, observational study in real practice.

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