LINGUISTIC VALIDATION CERTIFICATE

Symptom Screen (SymptoMScreen)

This is to certify that **Mapi Language Services** conducted the linguistic validation of the **paper** version of the **SymptoMScreen** (source file name: **SymptoMScreen_AU1.0_eng-USori**) into **Croatian**.

The aim of linguistic validation is to obtain translations that are:

- conceptually equivalent to the original and comparable across languages;
- culturally relevant to the context of the target country;
- easily understood by the people to whom the translated instrument is administered.

This is achieved using a rigorous methodology[1] involving:

- a process which comprises several steps;
- the instrument's developer input on conceptual issues;
- a skilled team recruited by **Mapi Language Services** in the target country and headed by a consultant with knowledge of and experience in the field of Clinical Outcome Assessments. The consultant supervises and coordinates the linguistic validation process in his/her country;
- a centralized review process coordinated by **Mapi Language Services**, including quality control by linguists and discussions about translation decisions with the consultant at each step of the process.
- cross-cultural harmonisation to ensure common understanding of the instrument's concepts by all participants involved in the process and achieve conceptual equivalence across languages.

The aforementioned translation (filename : SymptoMScreen_MA30143_Croatia(Croatian)_Final_V1.0_17102016.pdf, dated 17 October 2016) underwent the following steps:

- Forward Translation step – 2 forward translations by qualified translators and reconciliation
- Backtranslation step – 1 backtranslation by a qualified translator
- Clinician's Review step by a neurologist
- Cognitive Interview step on 5 patients with multiple sclerosis
- Proofreading step

Mapi Language Services may not be held liable for any changes made on the translation after completion of project **056819** by **Mapi Language Services** on **17 October 2016**.

Approved By:

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[1] **References:**
- Acquadro C., Jambon B., Ellis D. and Marquis P. Language and translation issues. In Spilker B, ed. Quality of Life and Pharmacoeconomics in Clinical Trials. Philadelphia: Lippincott-Raven Publishers, 1996: 575-585.
- Linguistic Validation Manual for Health Outcomes Assessments. Acquadro C, Conway K, Giroudet C, Mear I. Second Edition - Mapi Institute, Lyon, France, January 2012 - ISBN: 2-9522021-0-9

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