

Research Project

Electronic Monitoring and Improvement of Adherence to DOACs in Poly-medicated Stroke Patients (MAAESTRO)

Project funded by own resources

Project title Electronic Monitoring and Improvement of Adherence to DOACs in Polymedicated Stroke Patients (MAAESTRO)

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Project start 01.12.2017

Probable end 31.12.2023

Status Completed

Primary objective of the MAAESTRO trial is to evaluate the impact of an educational and reminder-based intervention on the adherence of stroke patients to direct oral anticoagulants (DOACs). Secondary objectives are to evaluate the association between non-adherence and clinical events, to identify predictors of non-adherence and to compare objective measures of adherence with self-reporting.

Key methodological instrument for this study will be the electronic device "Time4Med" as Smart and Reminder Card affixed on a pillbox. The study includes 3 visits (baseline visit 0, follow-up visit 1, end-of-study visit 2) with a total follow-up of 12 months.

After an initial 6-month observational phase with electronic monitoring of adherence using the "Smart Card", all patients will receive counselling based on their electronically recorded drug intake data, as well as a multicompartiment pillbox. Patients will be then randomised to one of two groups in a crossover design, so that in the subsequent 6-month interventional phase one group will use a (reminder-delivering) "Reminder Card" for the first 3 months and the "Smart Card" for the last 3 months, while the second group will use the cards in reverse order.

Keywords ischemic stroke, direct oral anticoagulants, adherence, electronic monitoring, adherence-improving intervention, polypharmacy

Financed by

University funds

Other funds

Add publication

Published results

4526314, Polymeris, Alexandros A.; Albert, Valerie; Hersberger, Kurt E.; Engelter, Stefan T.; Schaedelin, Sabine; Arnet, Isabelle; Lyrer, Philippe A., Protocol for MAAESTRO: Electronic Monitoring and Improvement of Adherence to Direct Oral Anticoagulant Treatment-A Randomized Crossover Study of an Educational and Reminder-Based Intervention in Ischemic Stroke Patients Under Polypharmacy, 1664-2295,

Frontiers in Neurology, Journalitem (Kommentare, Editorials, Rezensionen, Urteilsanmerk., etc. in einer wissenschaft. Zeitschr.

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