A learning system using routinely collected cohort data to combine research and care for continuous evaluation of personalized treatment strategies:

The MultiSCRIPT Project

Perrine Janiaud for the
A more personalized approach to MS therapy is urgently needed to treat patients as little as possible but as much as necessary at the right time.
Aims
Key data (as of 8/23):

- 1721 patients
- 13'287 visits (median FU 6.2 years)
- 95% of visits with biosamples
- 725 clinical relapses
- 7275 standardised brain MRI examinations
Methods

Serum neuro-filament light (NfL) chain

- Better quality of life?
- Lower risk for evidence of disease activity?
Results

Knowledge translation

DELPHI STUDY

3 patient consultants, 10 international experts and 18 SMSC experts

Round 1 → Round 2 → Round 3

Consensus use of sNfL information in MS care

PRAGMATIC TRIAL

Protocol CEC REVIEW

Oct 2022 - Jan 2023

MultiSCRIPT Status

Sept 2023 - Nov 2023 - May 2027
Challenges to consider:

- Routine care vs. usual SMSC care
- Consent / re-consent
- Minimal burden for patients and centers
- Optimization of data infrastructure
  - automatic screening
  - embedded randomization
Conclusion

MultiSCRIPT: Paradigmatic

- Pragmatic, patient-centered, and clearly focused on real-world decision making
- Randomized real-world evidence (real world data)
- Direct external control to assess applicability and external validity
- Systematic Patient & Stakeholder Involvement (Delphi)
- Adaptive platform - the beginning of a long-term evolutionary learning system
Conclusion

: Learning healthcare

MultiSCRIPT

INNOVATION

LEARNING HEALTHCARE SYSTEM

USUAL CARE
THANK YOU!

Principal investigators:
Özgür Yaldızli – University Hospital Basel
Lars G. Hemkens – University Hospital Basel
Jens Kuhle – University Hospital Basel
Anke Salmen – Inselspital Berne
Chiara Zecca – Ente Ospedaliero Cantonale (EOC)

PROJECT PARTNERS:
Pascal Benkert – Clinical Trial Unit Basel
Tobias Derfuss – University Hospital Basel
Cristina Granzieria – University Hospital Basel
Perrine Janiaud – University Hospital Basel
Ludwig Kappos – RC2NB
David Leppert – University Hospital Basel
Leila Rooshenas - QuinteT research group, Bristol, UK
Sabine Schädelin – Clinical Trial Unit Basel
Matthias Schwenkglenks - Medical Economics Unit Basel

SMSC CENTERS:
Kantonsspital Aarau
Lutz Achtnichts – Investigator
Oliver Findling – Investigator
Jacqueline Saxer – Study nurse

Neurocentro della Svizzera Italiana, Lugano
Claudio Gobbi – Investigator
Giulio Disanto – Investigator
Daniela Gianinazzi Dolci – Study nurse
Mara Gola-Bricalli – Study nurse

Inselspital Berne
Robert Hoepner – Investigator
Helly Hammer – Investigator
Lea Weber – Study coordinator
Besa Sylejmani – Study nurse

Kantonsspital St. Gallen
Stefanie Müller – Investigator
Jochen Vehoff – Investigator
Denis Uffer – Investigator
Anja Boegner – Study coordinator
Vjosa Iljazi – Study nurse

CHUV Lausanne
Caroline Pot – Investigator
Marie Theaudin – Investigator
Pansy Lim Dubois Ferriere – Study nurse

HUG Geneva
Patrice Lalive – Investigator
Claire Bridel – Investigator
Didier Glauser – Study coordinator

Universitätsspital Basel
Johannes Lorscheider – Investigator
Johanna Oechtering – Investigator
Anne-Katrin Proebstel – Investigator
Athina Papadopoulou – Investigator
Annette Orleth – Study coordinator
Lilian Demuth – Study nurse
Limberg Marguerite – Study nurse
Ulrich Gress – Study nurse
Aleksandra Maleska-Maceski - sNfL lab
Suvitha Subramaniam – Data management

Univeristätsspiital Zürich
Patrick Roth – Investigator
Marina Herwerth - Investigator
Tamara Müller – Study coordinator

Funding: Swiss National Foundation (IICT 2021, grant number 33IC30_205806 / 1)