

STRATOS mini-symposium at CEN 2023, September 7 2023

Ten years of the STREngthening Analytical Thinking for Observational Studies (STRATOS) initiative – progress and looking to the future

Coordinators:

Ruth Keogh

Department of Medical Statistics, London School of Hygiene & Tropical Medicine, UK

Ruth.keogh@lshtm.ac.uk

Willi Sauerbrei

Institute of Medical Biometry and Statistics, Medical Center, University of Freiburg, Freiburg, Germany

wilhelm.sauerbrei@uniklinik-freiburg.de

Description:

The STRATOS (STREngthening Analytical Thinking for Observational Studies) initiative is a large collaboration of experts in many different areas of biostatistical research. The objective is to provide accessible and evidence-based guidance for key topics in the design and analysis of observational studies. Guidance is intended for applied statisticians and other data analysts with varying levels of statistical training and experience (<https://stratos-initiative.org/de>). The STRATOS initiative was launched at a half-day Mini-Symposium at ISCB 2013. We will present some of the progress and plans for the future.

Program:

Session 1 (14.35-16.05)

14.35-15.25

Experience and progress with developing guidance for the analysis of key topics in observational research

Sauerbrei W, Abrahamowicz M, Le Cessie S, Huebner M, Keogh R, Carpenter J for the STRATOS initiative

15.25-15.45

Initial data analysis is a necessary step in the research workflow

Huebner M, Schmidt CO, Lusa L for TG3

15.45-16.05

Level 1 guidance on conducting and reporting sensitivity analyses for missing data

Carpenter J, Lee K for TG1

Session 2 (16.20-17.20)

16.20-16.40

Statistical analysis of high-dimensional biomedical data: A gentle introduction to analytical goals, common approaches and challenges

Rahmenfuehrer J, Ambrogi F, De Bin R, McShane L for TG9

16.40-17.00

Ongoing research towards state-of-the-art in variable and functional form selection for statistical models

Heinze G, Perperoglou A, Sauerbrei W for TG2

17.00-17.20

Data-Driven Simulations to Assess the Impact of Data Imperfections in Real-World Time-to-Event Analyses

Abrahamowicz M, Beauchamp M-E, Boulesteix A-L, Morris TP, Sauerbrei W, Kaufman JS for the STRATOS Simulation Panel

Session 3 (17.30-18.00)

Methodological research needs to improve – getting involved to increase future contributions of the STRATOS initiative

Sauerbrei W, Abrahamowicz M, Le Cessie S, Huebner M, Keogh R, Carpenter J for the STRATOS initiative