

17th Symposium Graduate School for Health Sciences 2025

Date: Wednesday, November 26 to Thursday, November 27, 2025
Location: Studienzentrum Gerzensee

Talks in 3 parallel sessions -first day-: rooms **Zürich**, **Genf** and **Thun**. Poster flashes in plenum: room **Bern**.
Poster viewing in plenum: **Room Panoramasaal & Foyer**

SCIENTIFIC PROGRAM

Talks: 10 min presentation & 5 min discussion and feedback
Poster flashes: 1 min

Wednesday, November 26

08.00 – 09.00 **Arrival and registration, welcome coffee**

09.00 – 09.30 **Welcome by Claudio Nigg, President &**
Facts and data by Tullia Padovani, GHS Coordinator
Room Bern: in plenum

09.35 – 10.40 **Session I, in parallel**
Room Zürich
Chair: Sissel Guttormsen

09.35 – 09.50 **Palermo, Luana:** Personality Pathology in Adolescents – A comparison of the Categorical and Alternative Model of Personality Disorder in the Prediction of Clinical Outcomes

09.50 – 10.05 **Kotoula, Christina:** Retrospective analysis of suspected metamizole-induced agranulocytosis cases at a Swiss university hospital

10.05 – 10.20 **Ganbat, Mandukhai:** Paediatric disease patterns: Mongolia's nationwide ICD-10 analysis

10.20 – 10.35 **Häckel, Sonja:** Evidence-Based Choices in Spine Trauma: Lessons from a Randomized Trial

10.35 – 10.40 *Survey evaluation of the talks*

09.35 – 10.40 **Session I, in parallel**
Room Genf
Chair: Matthias Wilhelm

09.35 – 09.50 **Baldizzi, Giuseppina:** Brain structure and cognition in Depression and its subtypes

09.50 – 10.05	de Preux, Mathieu: Development of a Controlled Rhizotomy for the Treatment of Trigeminal-Mediated Headshaking in Horses
10.05 – 10.20	Gschaidmeier, Alisa: Effects and mechanisms of sensory afferent electrical stimulation in children with hemiparesis
10.20 – 10.35	Smith, Alexander: Psychopathic personality traits in politics
10.35 – 10.40	<i>Survey evaluation of the talks</i>
09.35 – 10.40	Session I, in parallel Room Thun
Chair:	Tobias Nef
09.35 – 09.50	Kassar, Mohammad: Valvular interdependence after treatment of tricuspid regurgitation
09.50 – 10.05	Koch, Alexander: The Bern Obesity in Childhood and Adolescence Biorepository (BOCAB) - findings and future directions
10.05 – 10.20	Sedlinská, Marie-Anna: Influence of the Brief Therapy ASSIP on Neuropsychological Correlates and Psychological Process
10.20 – 10.35	Neher, Andrea: Exploring the potential of virtual reality as an assessment tool
10.35 – 10.40	<i>Survey evaluation of the talks</i>
10.40 – 11.00	<i>Small coffee break</i>
11.00 – 12.05	Session II, in parallel Room Zürich
Chair:	Lorenz Räber
11.00 – 11.15	von Känel, Sofie: Neuronal correlates of gestures in depression
11.15 – 11.30	Starvaggi, Carl: Accelerating Diagnostic Competency in Pediatric Musculoskeletal Radiograph Interpretation Among Orthopedic Post-Graduate Trainees
11.30 – 11.45	Becchetti, Chiara: Safety, Tolerability and Efficacy of GLP-1 Receptor Agonists (GLP1-RA) in the Management of Post-Liver Transplant Weight Gain: A Multi-Centre, Observational Study
11.45 – 12.00	Habegger, Tamara: Outpatient antibiotic consumption in Swiss cantons
12.00 – 12.05	<i>Survey evaluation of the talks</i>
11.00 – 12.05	Session II, in parallel Room Genf
Chair:	Evangelia Liakoni

11.00 – 11.15	Salzmann, Saskia: Feasibility study of the Mio-Training: A metacognitive Training for children and adolescents
11.15 – 11.30	Leuenberger, Lorenz: Body mass index trajectories from early childhood to late adolescence
11.30 – 11.45	Romero, Franco: Can routine health care data be used to facilitate clinical research in paediatric respiratory diseases
11.45 – 12.00	Fregolente, Livia: Biomarkers in Central Disorders of Hypersomnolence
12.00 – 12.05	<i>Survey evaluation of the talks</i>

11.00 – 12.05 Session II, in parallel

Room Thun

Chair: Jessica Peter

11.00 – 11.15	Haupt, Clemens: Emergency Chat: Patterns and Predictors of Chat Usage in Suicidal Crises
11.15 – 11.30	Mountford, Timothy: Visualising Mental Health: A Provincial Dashboard for the Western Cape, South Africa
11.30 – 11.45	Schewski, Lilien: Communication Dynamics in the Operating Room - An Exploratory Study Using Video Recordings
11.45 – 12.00	Gredig, Selina: Participation in Everyday Life Experienced by Children with Cerebral Palsy - a Qualitative Study
12.00 – 12.05	<i>Survey evaluation of the talks</i>

12.15 – 14.00 Lunch

14.00 – 14.50 Session III, in parallel

Room Zürich

Chair: Eva Segelov

14.00 – 14.15	Wicki, Korian: Preventing cognitive decline using portable, non-invasive sleep enhancement
14.15 – 14.30	Moens, Laura: Measuring Situation Awareness in Medical Simulation Training
14.30 – 14.45	Mulder, Fanny: Barriers and facilitators to the implementation of an interprofessional co-care service for hypertensive patients: A participatory qualitative study
14.45 – 14.50	<i>Survey evaluation of the talks</i>

14.00 – 14.50 Session III, in parallel

Room Genf

Chair: Sören Huwendiek

14.00 – 14.15	Oliveira Santos, Nicolly: Automated calibration of cone-beam computed tomography images by AI
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14.15 – 14.30 **Dietrich, Linda:** Co-trajectories of social stressors and systemic inflammation biomarkers from childhood to adolescence and their associations with subsequent self-harm

14.30 – 14.45 **Parduzi, Qendresa:** From Surveillance to Prediction: Opportunities for Machine Learning in Intraoperative Neurophysiology

14.45 – 14.50 *Survey evaluation of the talks*

14.00 – 14.50 **Session III, in parallel**

Room Thun

Chair: **Bernhard Völkl**

14.00 – 14.15 **Gareta, Dickman:** All cause mortality among individuals with HIV in the era of universal test and treat: Population-based data linkage study in rural South Africa

14.15 – 14.30 **Durand, Alexane:** Performance comparison of feline automated skull stripping techniques

14.30 – 14.45 **Lysser, Yves:** Hippocampal hyperactivity and pattern separation in people at risk for developing Alzheimer's disease

14.45 – 14.50 *Survey evaluation of the talks*

14.50 – 16.00 **Walk to the lake / coffee break**

16.00 – 17.15 **Poster flash (1 min/poster)**

Room Bern: in plenum

Chair: **Claudio Nigg**

1. **Fankhauser, Severin:** Left ventricular function and its longitudinal assessment in Swiss childhood cancer survivors
2. **Exl, Matthias Thomas:** Muscle excitability testing: Age and sex dependency of normative data
3. **Keller, Lea:** Pharmacokinetics and pharmacodynamics of synthetic nicotine and nicotine analogues
4. **Dmitrichenko, Olga:** The quest for the best: manual, atlas- and spatial prior-based detection of locus coeruleus
5. **Burch, Lea:** Exploring the Potential of Digital Phenotyping for Assessing Borderline Personality Disorder

MAD minutes_1

6. **Brunner, Meret Salome:** Dissociation as an emotion regulation strategy: An examination in adolescent psychiatric inpatients using ecological momentary assessment
7. **Goldberg, Johannes:** Screening for unruptured intracranial aneurysms in heavy smokers and value of aneurysm wall enhancement for follow-up imaging with ultra-high field 7 Tesla MRI
8. **Jutidamrongphan, Warissara:** Quantitative PSMA PET/CT Analysis for Outcome Assessment in mCRPC Patients Undergoing [177Lu]Lu-PSMA-617 Therapy

9. **Renggli, Aaron:** Completeness of Case Ascertainment in the Childhood Cancer Registry of Switzerland
10. **Nitsche, Catharina:** Early Life Factors, Crying and Early-Onset Atopic Dermatitis

MAD minutes_2

11. **Baumann, Lukas Nils:** Vaccines Without Use: CAR-T Therapy and Its Impact on Vaccine-Derived Immunity and Revaccination
12. **Mwamuka, Rukudzo:** Barriers and facilitators of nurse-led antidepressant prescribing at primary care facilities in Harare, Zimbabwe
13. **Rauch, Janis:** Functional outcome after ischaemic stroke and intracerebral haemorrhage – an analysis from the Swiss Stroke Registry
14. **Lötscher, Nicole:** Pharmacist-Guided Insomnia Counselling focusing on Cognitive Behavioural Therapy: Guideline Development
15. **Angelva, Noora Emilia:** Contactless Vital Sign Observation From Seismic Signals

MAD minutes_3

16. **Hammelbeck, Johanne:** How to recruit smoking parents and their children? - The Early Life Intervention in Pediatrics Supported by E-Health (ELIPSE) - Smoke" study
17. **Xie, Wen:** Artificial Intelligence-based Fully Automated Whole-Aorta Segmentation and Quantification in Computed Tomography Images
18. **Carneiro, Fábio:** Tract-Specific Microstructural Vulnerability Linked to Vascular Risk and White Matter Hyperintensities
19. **Hess, Lea:** Study Plan: AdoASSIP – BEST (**B**uilding **E**vidence in adolescent **S**uicide prevention and **T**reatment)
20. **Agustoni, Giovanni:** Depressive Symptoms, Self-Harming Behavior, and Help-Seeking Among Swiss Adolescents: Findings from a Population-Based Sample in the Canton of Bern

MAD minutes_4

21. **Graf, Evelyne:** Impact of an interprofessional secondary cardiovascular prevention management program on guideline-adherent care, hospitalization risk and health care costs: a propensity score matching study using real-world data
22. **Greber, Tiara:** Prevalence of endocrine conditions among Swiss childhood cancer survivors and their association with health-related quality of life
23. **Schöpfer, Raphaela:** The influence of left anodal dlPFC stimulation on effective connectivity during emotional word processing: A combined 7T fMRI and HD-tDCS study
24. **Sautebin, Annie:** Brain connectivity in presymptomatic Huntington's Disease: A TMS-EEG granger causality and graph theory approach

25. **Godehardt, Sarah:** Supporting Deep Encoding with Non-Invasive Brain Stimulation: A tDCS-fMRI Study in Younger and Older Adults

MAD minutes_5

26. **Lory, Kim Svenja:** Hand Use Asymmetry in Children with Hemiparesis: An Accelerometer-Based Everyday Life Assessment
27. **Florineth, Gianluca Andri:** Association Between Psychological Therapy Quantity and Depressive Symptom Reduction in Psychedelic-Assisted Therapy: A Systematic Review and Meta-Analysis
28. **Sökeland, Greta:** Unveiling Inflammatory Biomarkers as Prognostic Indicators for Perihemorrhagic Edema Evolution in Intracerebral Hemorrhage
29. **Dembowska, Kinga:** Association between thyroid function and heart failure: Mendelian Randomization study
30. **Zurbrügg, Samira:** Self-injury and suicide attempts from childhood to adolescence: Bidirectional associations with psychosocial stress and support
31. **Asgari Jirhandeh, Meisam:** Speech as a Window to the Mental Health: Developing Speech-based Digital Biomarkers for Emotional Disorders

MAD minutes_6

32. **Pavicic, Elena:** The interplay of Heart Rate Variability, Stress, and Bio-functional Aging – A Follow-up Study
33. **Colombo, Aaron:** Age-Related Gait Changes: How to Analyze Longitudinal Real-World Data From Community-Dwelling Adults
34. **Morscheck, Lara:** Shared Errors or Corrective Insight? Investigating Teamwork as a Strategy to Improve Diagnostic Accuracy in Challenging Diagnostic Situations
35. **Zwicker, Lena:** Association between tobacco and cannabis smoking on respiratory symptoms
36. **Winiger, Laura:** Brain Age in Adult Patients with Early-Treated Phenylketonuria
37. **Hefti, Eva:** ICF-based monitoring of functioning in older adults with fragility fractures in the continuum of care

MAD minutes_7

38. **Auer Elias:** Left Atrial Enlargement in Patients with Atrial Fibrillation and Breakthrough Stroke despite Anticoagulation
39. **Xu, Yan:** Are Complex and Disabling Health Conditions a Precursor to Cardiovascular Disease? A Systematic Review and Meta-Analysis
40. **Ellies, Franziska:** Psychological Expert Reports in Family and Civil Law Cases - A Descriptive Analysis in Child and Adolescent Forensics

41. **Bartkowiak, Joanna:** Three-Dimensional Echocardiographic Analysis for Device Sizing and Risk Assessment, of Left Ventricular Outflow Tract Obstruction in Transcatheter Mitral Valve, Replacement
42. **Rohner, Roman:** IRIS Imaging Project - Improving Reperfusion Strategies for Ischemic Stroke
43. **Wyss, Jacqueline:** Resilient but dynamic small intestinal microbiome

MAD minutes_8

44. **Bini, Tommaso:** Percutaneous Left Atrial Appendage Closure in Patients with Cardioembolic Breakthrough Stroke: an International Observational Study
45. **Prenaj, Besim:** Sex Hormones and Mental Health from Late Childhood into Young Adulthood: A Systematic Review and Mini-Meta-Analysis
46. **Herwegh, Nico:** Test-retest reliability of countermovement jump performance using accelerometers and force plate data
47. **Ding, Jingyu:** Changes to in situ oral biofilms formed on dentine after using different mouthrinses
48. **Kubat, Heike:** Scoping the existing research addressing physiotherapeutic approaches for episodic versus chronic migraine
49. **Wegmüller, Selina:** An analysis of (ethical) arguments in the public debate on animal testing in Switzerland

17.15 – 18.45	Poster viewing with apero Room Panoramasaal & Foyer: in plenum
Chairs:	Godfathers/godmothers
18.45 – 19.15	Student meeting Room Bern: in plenum
Chairs:	Self-organized by the students
19.15	Dinner

Thursday, November 27

Workshop: Philosophy in Health Sciences

Lectures: room Bern: in plenum

Interactive parts: rooms Zürich and Genf

Students divided in: GROUP A and GROUP B

Talks in 2 parallel sessions -second day-: rooms Zürich and Genf

07.00 – 08.30 Breakfast & checkout

08.30 – 09.15 Workshop: Sex and Gender Perspectives in Neuroscience and Philosophical Phenomenology
Room Bern: in plenum
Chair: Sissel Guttormsen

08.30 – 08.35 Introduction Lecturers

08.35 – 08.55 Lecture 1
Dr. Antonella Santucci: Sex and gender approach for precision medicine in neuroscience

08.55 – 09.15 Lecture 2
Prof. Francesca De Vecchi: Personal Identity, Lived Body and Gender – A Phenomenological Proposal

09.15 – 10.05 Workshop in parallel – Antonella Santucci
Room Zürich – Group A
Interactive part

09.15 – 10.05 Workshop in parallel – Francesca De Vecchi
Room Genf – Group B
Interactive part

10.05 – 10.30 Coffee break

10.30 – 11.10 Workshop: Sex and Gender Perspective in Neuroscience and Philosophical Phenomenology
Room Bern: in plenum
Chair: Sissel Guttormsen

10.30 – 10.50 Lecture 3

Prof. Francesca De Vecchi: Empathy and Care – A Phenomenological Proposal

10.50 – 11.10 **Lecture 4**

Dr. Antonella Santucci: Case studies, Alzheimer disease and depression

11.10 – 12.00 **Workshop in parallel – Francesca De Vecchi**

Room Zürich – Group A

Interactive part

11.10 – 12.00 **Workshop in parallel – Antonella Santucci**

Room Genf – Group B

Interactive part

12.00 – 13.25 **Lunch**

13.30 – 14.30 **Presentation of course programs (DCR, PHS, BeNeFri)**

Room Bern: in plenum

Chair: **Sissel Guttormsen**

13.30 – 13.50 **Eva Segelov: DCR courses**

13.50 – 14.10 **Angèle Gayet-Ageron: PHS courses**

14.10 – 14.30 **Stéphan Ciochi : BeNeFri courses**

14.35 – 15.25 **Session IV, in parallel**

Room Zürich

Chair: **Sissel Guttormsen**

14.35 – 14.50 **Fink, Erik:** Integrating neurobiological markers to prospectively predict adolescent self-harm - a machine learning approach

14.50 – 15.05 **Bovermann, Xenia:** SwissPedLung - a data stream enabling retrospective analysis of pulmonary tests through large-scale data

15.05 – 15.10 ***Survey evaluation of the talks***

14.35 – 15.25 **Session IV, in parallel**

Room Genf

Chair: **Claudio Nigg**

14.35 – 14.50 **Guerra Buezo, Beatriz:** Paediatric asthma diagnosis practices in Switzerland: a national physician survey

14.50 – 15.05 **Schmitt, Francesca Lena:** Adverse psychiatric effects of high-dose glucocorticoids on children and adolescents with malignant blood diseases

15.05 – 15.20 **Ferro Desideri, Lorenzo:** The application of artificial intelligence in retinal diseases

15.20 – 15.25 *Survey evaluation of the talks*

15.25 – 15.50 **Coffee break**

15.50 – 16.20 **Award ceremony best poster and talk by Tullia Padovani,**
Closure symposium by Claudio Nigg
Room Bern: in plenum

We would like to thank our sponsor *Microsynth* for supporting this year's GHS Symposium!

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