

# Adverse Events Detection for Advancing Patient Safety and Healthcare Quality

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**unisanté**

Centre universitaire de médecine générale  
et santé publique • Lausanne



Centre de recherche et d'innovation en  
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**HARVARD**  
MEDICAL SCHOOL



8:00	Welcome and Coffee	Unisanté Hall
8:45	<b>Introductory Presentations</b> <i>Dr. Marie-Annick Le Pogam (DESS, Unisanté)</i>  <i>Dr. Claire Coumau and Dr. Frederic Gaspar (CRISP, University Hospital of Lausanne)</i>  <i>Prof. Dr. Chantal Csajka (CRISP, University Hospital of Lausanne)</i>	<b>Auditorium</b>
9:30	<b>Keynote Address</b> <i>Prof. David W. Bates (Harvard Medical School)</i> <i>Healthcare Adverse Events Detection: Automated and Manual Methods in Inpatient and Outpatient Settings</i>	<b>Auditorium</b>
10:30	Coffee Break	Unisanté Hall

<b>11:00</b>	<b>Scientific Presentations</b> <i>Prof. Dr. Anne Leuppi-Taegtmeyer (University Hospital Basel, University of Basel)</i> <i>Monitoring naloxone use to detect adverse events with opioids among hospitalised patients</i>  <i>Prof. Dr. Maria Wertli (University of Bern, University Hospital of Bern, Baden Cantonal Hospital)</i> <i>Structured handoff procedures to reduce healthcare-associated harm in patients hospitalized on acute internal medicine wards</i>  <i>Prof. Dr. Guy Haller (University Hospital Geneva, Federal Quality Commission)</i> <i>Measuring adverse events in operating rooms</i>  <i>PD Dr. Patrick Beeler (Center for Clinical Research, University of Lucerne)</i> <i>Improved reporting of adverse drug reaction-related hospitalizations: A multicenter study from Switzerland</i>	<b>Auditorium</b>
<b>12:30</b>	<i>Lunch Break</i>	<i>"Le 1887"</i>
<b>14:00</b>	<b>Scientific Presentation</b> <i>Dr. Alice Giese (Conference of Cantonal Health Directors &amp; Canton of Zurich)</i> <i>Measuring adverse events at the cantonal level: Insights from specialty-focused approaches</i>	<b>Mont Cheseau</b>
<b>14:20</b>	<b>Round Table</b>  <b>Sustainable Implementation of a National Adverse Event Detection Framework</b>	<b>Mont Cheseau</b>
<b>16:00</b>	<b>Closing Remarks</b>	<b>Mont Cheseau</b>
<b>16:30</b>	<i>Networking Session with Prof. David W. Bates (for those who registered)</i>	<i>Mont Cheseau</i>

## Organizing Committee

**Dr. Marie-Annick Le Pogam** serves as Associate Physician and Lecturer in the Epidemiology and Health Data Science unit at Unisanté (University of Lausanne). Her research centers on developing and validating healthcare quality and patient-safety indicators using routinely collected data (electronic medical records, hospital discharge data, insurance claims), employing rule-based and data-driven (including machine-learning and natural language processing) methods to create risk-stratification algorithms, safety monitoring tools, and quality metrics. She leads the SafeCare Switzerland study, aiming to detect and quantify adverse events in Swiss inpatient care.

**Prof. Dr. Chantal Csajka** is Professor of Clinical Pharmacy and Director of the Centre de Recherche et Innovation en Sciences Pharmaceutiques Cliniques (CRISP) at Lausanne University Hospital (CHUV). She specializes in clinical pharmacokinetics, therapeutic drug monitoring, pharmacogenetics, drug safety, and personalized medication management. Through her work, she aims to improve medication safety, reduce avoidable harm, and support evidence-based, personalized pharmacotherapy in hospital and outpatient care settings. She leads several initiatives among which SwissMADE, which aims to monitor adverse drug events.

**Claire Coumau, PhD**, is Postdoctoral Researcher at the Centre de Recherche et Innovation en Sciences Pharmaceutiques Cliniques (CRISP) at Lausanne University Hospital (CHUV), working at the intersection of clinical pharmacy, pharmacovigilance, and patient safety. Her research focuses particularly on the detection and prevention of adverse drug events (ADEs) in hospitalized patients and contributes to developing automated tools for ADE detection to improve drug safety in older inpatients and support safer prescribing practices.

**Frédéric Gaspar, PhD**, is Project Lead at the Centre de Recherche et Innovation en Sciences Pharmaceutiques Cliniques (CRISP) at Lausanne University Hospital (CHUV), where he specializes in the detection and monitoring of adverse drug events (ADEs) in hospital settings. He leads projects that leverage advanced modelling and data-driven methods – including data mining and electronic medical record-based surveillance – to improve medication safety and support safer prescribing practices in inpatient care.

**Veronica Petrencu, PhD**, is Project Manager at Unisanté (University of Lausanne) and currently leads the nationwide SafeCare Switzerland initiative, which evaluates the incidence of adverse events in inpatient acute care across Swiss hospitals. In this role, she oversees project coordination, data collection, and stakeholder engagement on behalf of the Federal Quality Commission. She holds a PhD in Economics and specializes in implementation science, health systems, and healthcare policy.

## Invited Speakers

**Prof. Dr. David Bates** served for 25 years as the Chief of the Division of General Internal Medicine and Primary Care at Brigham and Women's Hospital and is currently the Medical Director of Clinical and Quality Analysis, Information Systems at Mass General Brigham. He also codirects the Center for Artificial Intelligence and Bioinformatics in the Learning Healthcare System (CAIBILS) across Mass General Brigham. He is a Professor of Medicine at Harvard Medical School and Professor of Health Policy and Management at the Harvard T.H. Chan School of Public Health, where he is the Co-Director of the Program in Clinical Effectiveness. He is a member of the National Academy of Medicine and edits the Journal of Patient Safety. Dr. Bates is an internationally recognized and respected expert in the field of patient safety and he led the SafeCare Study. His primary informatics focus concerns the use of information technology to measure and improve the quality of care within the field of safety.

**Prof. Dr. Anne Leuppi-Taegtmeyer** is Head of Patient Safety and Clinical Lead of the DrugSafety at the University Hospital Basel, and a Titular Professor of Clinical Pharmacology and Toxicology at the University of Basel. Her research focuses on medication safety, adverse drug events, pharmacovigilance, and the integration of electronic tools—such as trigger systems—into clinical information systems.

**Prof. Dr. Maria Wertli** is Professor in Internal Medicine at the University of Bern, University Hospital Bern and the Head of the Department of Internal Medicine at the Kantonsspital Baden. Her research focuses on health services research, low value care, quality improvement and patient safety.

**Prof. Dr. Guy Haller** is the Chief Physician of the Service “Quality of Care” at Geneva University Hospital, and Associate Professor at the University of Geneva. He is also a member of the Federal Quality Commission. He combines clinical work with responsibilities in quality of care, clinical epidemiology, and research. His research interests revolve around perioperative safety, incident reporting, patient-safety indicators, and methods to measure and improve quality of care.

**Dr. Med. Patrick E. Beeler** leads research and teaching at the University of Lucerne. His research focuses on healthcare quality and patient safety, particularly through the development and application of quality indicators. His work integrates clinical expertise, data science, and health services research.

**Alice Giese, PhD**, serves as Quality Officer at the Zürich Canton health authority. She holds a PhD from University of Southern Queensland. Her research explored the relationship between employee satisfaction, patient satisfaction and financial performance in Swiss hospitals. Her work at the canton focuses on quality assurance, health-system planning, and patient safety/quality of care initiatives – including efforts like introducing structured quality and performance measurement.

## Roundtable Panelists

**Emmanuelle Bortolin** is a healthcare quality expert with a background as a nurse and midwife. She currently works as a consultant for Curacasa—the Swiss association of freelance and home-care nurses—while also leading her own consultancy firm, TiQual. She also supports strategic initiatives aimed at strengthening quality, safety, and coordination across home-care and community-care services within Alliance Care. She specializes in quality management, auditing, training, and supporting process improvement and digitalization within home-care and social-healthcare organizations.

**Prof. Dr. Alessandro Ceschi** is Chief Medical Educator and Director for Research and Training at the Ente Ospedaliero Cantonale (EOC, Bellinzona), Medical & Scientific Director of the Istituto di Scienze Farmacologiche della Svizzera Italiana (ISFSI, Lugano), Head of its Division of Clinical Pharmacology and Toxicology, and President (as of 2025) of the Swiss Clinical Trial Organisation (SCTO). Prof. Ceschi's work spans clinical pharmacology, toxicology, pharmaco-/toxicoepidemiology, clinical trials, and pharmacovigilance – with a strong commitment to patient safety and high-quality research.

**Prof. Dr. Guy Haller** is Chief Physician of the Service “Quality of Care” at Geneva University Hospital, Associate Professor at the University of Geneva, and Monash University. He is also a member of the Federal Quality Commission. He combines clinical work with responsibilities in quality of care, clinical epidemiology, and research. His research interests revolve around organisational risk factors for iatrogenic complications, perioperative safety, incident reporting, patient-safety indicators, and methods to measure and improve quality of care through clinical epidemiology.

**Prof. Dr. Balthasar Hug** is Chief Physician of Internal Medicine at the Lucerne Cantonal Hospital (LUKS) and the Chair of the Centre for General Practitioner Medicine and Community Care at University of Lucerne. His academic and clinical work bridges hospital care and public/community health; his primary research interests include patient safety, clinical decision support, health services research, and community health.

**Dr. Marie Méan** is Senior Physician (PD / Privatdozentin) at the Internal Medicine Service of the Lausanne University Hospital, where she serves on the Quality & Safety Committee. She leads morbidity-mortality reviews and adverse-event analyses to enhance inpatient care quality. In addition, her research focuses on low value care and supports evidence-based medicine and patient-centered care with PROMs / PREMs. She is also a medical lecturer at University of Lausanne (UNIL) and is active in national professional organizations such as the Swiss Internal Medicine Society.

**Prof. Dr. David Schwappach** is Professor for Patient Safety at the Institute for Social and Preventive Medicine (ISPM), University of Bern. He leads studies on the causes and prevention of harm in healthcare across clinical contexts – from single adverse events to analyses of large-scale routine data. He has conducted research on topics such as medication safety, usability and risks associated with electronic health records, “never event” registration, diagnostic error and safety climate, aiming to translate research into practical improvements in quality and safety of care.

**MER, Dr. Christian von Plessen** is Internal Medicine Doctor and Pulmonologist, Senior lecturer at Unisanté / Université de Lausanne, and serves as Senior Advisor for healthcare quality and safety to the health authorities of the Canton of Vaud. He is recognized for his expertise in quality improvement and patient safety, with international experience in leading quality-improvement programmes. His current work and research focus on the coproduction of healthcare services, quality improvement, and health research as a strategy for systemic change in healthcare – aiming to strengthen quality and safety across care settings in Canton of Vaud and beyond.