

**UNIVERSITY OF  
LUCERNE**

**FACULTY OF HEALTH SCIENCES  
AND MEDICINE**

**INVITATION TO LECTURE NO. 7**

**SPOTLIGHT GESUNDHEIT –  
FACULTY LECTURES**

**WITH PD DR. SC. ETH NADINE BIENEFELD**

**MONDAY, 15 DECEMBER 2025  
17:00–18:15 | LECTURE HALL 10**

# SPOTLIGHT GESUNDHEIT – FACULTY LECTURES

## LECTURE NO. 7

We are delighted to welcome PD Dr. sc. ETH Nadine Bienefeld, an Associate Lecturer at ETH Zurich specializing in human factors, safety management, and the sociotechnical integration of new technologies into high-risk environments. Her work is built on over 15 years of experience, including her role as Manager of Human Factors & Systems at Swiss International Airlines Ltd. and as a Visiting Researcher at NASA Ames.

Dr. Bienefeld applies core principles from human factors and safety science to modern challenges in healthcare, leading translational projects that integrate AI into clinical practice. This includes the successful validation of an AI-based decision support system within the neurosurgical intensive care unit at University Hospital Zurich. She holds a Habilitation and a Doctorate from ETH Zurich, where her research has established the scientific foundations for safe and effective Human-AI Teams.

The title of her presentation is:

### **AI in Medicine: How to Ensure Safe and Effective Care through Human-AI Teaming**

AI has the potential to revolutionize medicine. But the critical question isn't just about technology — it's about human-AI collaboration: How do we, as clinicians, healthcare professionals, and patients, best partner with these new systems?

Dr. Nadine Bienefeld invites us to examine the deeply human challenges: How does AI alter human interaction and decision-making? And crucially, how can we maintain expert judgment and calibrate trust in automated systems?

Sharing her latest research, Dr. Bienefeld presents a framework for calibrating trust in human-AI teams and will provide us with an outlook for where the future of AI in healthcare could go. From diagnostics, process automation, to AI in surgery, the goal is clear: building human-AI teams based on human strengths and values, for safer, value-based care.

Following the keynote, Prof. Dr. med. Balthasar Hug, Chief Chief Physician of Internal Medicine at LUKS, and Dr. Bienefeld will engage in a Fire Side Chat to further discuss the outlook of AI applications in clinical practice.

**All participants are requested to register by 8 December 2025.**  
**[To the registration](#)**

**The lecture will be held in English, is open to the public and free of charge.**  
**After the lecture, there will be an opportunity to chat over drinks and snacks.**

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