

# INTELLIGENT HEALTH 2024

The world's leading AI in medicine summit

11<sup>th</sup> – 12<sup>th</sup> September 2024  
Basel, Switzerland

<http://www.intelligenthealth.ai/>

DAY ONE – Wednesday 11<sup>th</sup> September 2024

08:00	<b>REGISTRATION</b>
09:20	<b>WELCOME Inspired Minds</b>  <b>WELCOME to Basel</b>  <b>WELCOME and chairs' opening remarks</b>
09:40	<b>HEADLINER</b> <b>The promise of AI in healthcare: leveraging AI to create advancements in patient care, operational efficiencies, and personalized medicine</b>
10:05	<b>HEADLINER FIRESIDE CHAT</b> <b>Leadership and strategy in healthcare transformation: Mayo Clinic's journey with AI integration</b> The healthcare industry is undergoing significant changes fueled by technological advancements and novel care delivery methods, and unquestionably, Mayo Clinic stands at the forefront of these groundbreaking discoveries. Central to this evolution is the remarkable digital health revolution, with AI positioned to transform diagnostics, treatment, and patient outcomes. Join us for this session as we explore Mayo Clinic's dedication to growth and development, organizational excellence, and cultural transformation. Discover how Mayo Clinic utilises AI to streamline workflows, improve patient care and promote community engagement. What is Mayo Clinic's vision for the future of AI in healthcare, and what strategic initiatives are being implemented to maximize its impact?

10:30	<b>HEADLINER</b> Examining access to health in the global AI landscape		
10:55	<b>REFRESHMENTS &amp; NETWORKING</b>		
	<b>INTELLIGENT HEALTH: PLENARY</b>	<b>TRACK 1: PRACTICAL, REAL-WORLD AI USE CASES IN HEALTHCARE</b> Examining the potential to transform care delivery and life science research, challenges faced and lessons learnt	<b>TRACK 2: AI UNDER THE HOOD: WORKSHOPS</b> Join our hands-on workshops for practical exercises and to learn from leaders in the field
11:30	<b>HEADLINER</b> What can we expect from Google's Med-PaLM 2 and how can this technology safely advance?	<b>HEADLINE USE CASE</b> (11:30 - 11:50) Implementing innovative solutions within clinical settings	<b>ROUNDTABLE</b> (11:30 - 12:10)
11:50	<b>PANEL DISCUSSION</b> Navigating the AI regulatory landscape to ensure organisational readiness for AI adoption and encourage technological innovation <ul style="list-style-type: none"> <li>• What challenges and opportunities do AI and data governance pose to the healthcare sector? Arrangements that comply with regulations like HIPAA, ensuring patient privacy and security.</li> <li>• What impact will it have on the development and implementation of AI in healthcare practice?</li> <li>• Best practice for establishing robust digital governance frameworks</li> </ul>	<b>USE CASE</b> (11:50 - 12:10) <b>MediCrawl: an ML-based app to enable market oversight within Swissmedic</b> Swissmedic is the National Authorisation and supervisory authority for drugs and medical products. It ensures high-quality, safe and effective medical products. As part of its mandate, Swissmedic regularly oversees online markets in the search for illegal medicinal products. This search is time consuming as well as resource intensive. To optimize this workflow, MediCrawl was developed by the innovation team within Swissmedic. MediCrawl is a machine learning-based platform developed in the Cloud that allows a centralized analysis of products of interest found online. These products are collected via crawling and are later presented to Swissmedic specialists. After two years of development, our results with MediCrawl are promising and a more permanent implementation in Swissmedic is underway as well as an international collaboration for this tool	<b>ROUNDTABLE</b> (12:20 - 13:00)
		<b>USE CASE</b> (12:10 - 12:30) <b>Examining the interface of digitization, urbanization and health</b>	

12:30	<b>HEADLINER</b> <b>How will the rise of Retail Healthcare transform the traditional healthcare sector and offer improved consumer care?</b>	<b>USE CASE</b> (12:30-12:50) <b>Intersecting frontiers: Genomics and AI in prenatal care</b> Discover the convergence of genomics and AI in prenatal diagnosis, where progress drives remarkable precision and foresight. Experience groundbreaking research from Tel Aviv University as this presentation unveils a revolutionary noninvasive method for detecting genetic disorders in fetuses as early as 10 weeks into pregnancy. Find out first-hand how this cutting-edge algorithmic approach utilises a simple blood test to sequence small amounts of DNA derived from both parents, enabling unparalleled accuracy in predicting mutations	
12:50	<b>LUNCH &amp; NETWORKING</b>		
	<b>INTELLIGENT HEALTH: PLENARY</b>	<b>TRACK 1:</b> <b>INNOVATION STAGE: AI HEALTH TRANSFORMERS</b> <i>Hear from the top academic researchers in the healthtech space and the leaders of the most disruptive AI health tech companies of tomorrow</i>	<b>TRACK 2:</b> <b>AI UNDER THE HOOD: WORKSHOPS</b> Join our hands-on workshops for practical exercises and to learn from leaders in the field
13:50	<b>HEADLINER</b> <b>Examining advances in using generative AI to validate drug discovery technology and cure cancer</b>	<b>INNOVATION INSIGHT</b> (13:50 - 14:10) <b>Creating efficiencies with 'Intelligent Healthcare'</b>	<b>WORKSHOP 2</b> (13:50 - 14:50)
14:10	<b>HEADLINER</b>	<b>INNOVATION INSIGHT</b> (14:10 - 14:30) <b>Empowering clinicians with a platform for AI-assisted diagnosis and clinical decision-making</b>	
14:30	<b>HEADLINER</b>	<b>INNOVATION INSIGHT</b> (14:30 - 14:50) <b>Bridging the gap between innovation and risk reduction to bring novel therapies to patients, faster</b>	

14:50	<p><b>PANEL DISCUSSION</b>  <b>Integrating Generative AI and LLMs into existing workflows whilst balancing risk and opportunity effectively</b></p> <ul style="list-style-type: none"> <li>• Weighing the models' significant potential against a requirement for careful consideration and appropriate utilisation to ensure safety and effectiveness.</li> <li>• Interoperability and the integration of large language models into clinical practice, focusing on information retrieval and decision support.</li> <li>• When used correctly, generative AI can enhance equity by improving access to information for diverse populations, countering racial bias, and promoting inclusivity.</li> </ul>	<p><b>INNOVATION INSIGHT</b>  (14:50 - 15:10)  <b>Necrobotics 360: Innovating tomorrow's healthcare landscape</b>  Explore how Necrobotics 360 is reshaping the future of healthcare with its visionary integration of cutting-edge AI technologies. This transformative initiative combines AI, machine learning, data analytics, and advanced robotics to elevate healthcare delivery standards. Emphasising collaboration, data interoperability, and ethical principles, Necrobotics 360 envisions a future where AI-driven solutions streamline clinical processes, enhance diagnostics, revolutionise patient care practices, and contribute to the development of a more efficient, compassionate, and technologically advanced healthcare ecosystem</p>	
15:30-15:55	<p><b>HEADLINER</b>  <b>Exploring the cutting-edge innovations shaping healthcare delivery to create a more efficient, effective, and patient-centered health system</b></p>	<p><b>INNOVATION INSIGHT</b>  (15:10 - 15:30)</p>	<p><b>WORKSHOP 3</b>  (15:00 - 16:00)</p>
15:55	<p><b>REFRESHMENTS &amp; NETWORKING</b></p>		
	<p><b>INTELLIGENT HEALTH: PLENARY</b></p>		
16:10	<p><b>HEADLINER</b>  <b>Creating innovative value propositions that leverage technology and analytics at scale</b></p>		
16:35	<p><b>HEADLINE PANEL DISCUSSION</b>  <b>Balancing innovation with cost and access: Why ensuring a people-first approach when identifying what problem we aim to solve helps to identify the appropriate technological solution</b></p> <ul style="list-style-type: none"> <li>• Challenges related to the maturity of the technologies and how they align with the right use cases.</li> <li>• Integration of AI, machine learning, generative AI, and big data analytics in precision medicine and personalized healthcare.</li> <li>• Examine the significant impact of AI costs as we move beyond proof of concepts and towards large-scale implementation. Increased efficiency doesn't always translate to AI being more cost-effective. In many cases, while efficiency may rise, the overall expenses also escalate considerably.</li> </ul>		

	<ul style="list-style-type: none"> <li>Who pays? Consider funding for these initiatives, requiring collaboration</li> </ul>
17:10	<b>HEADLINER</b> <b>Integrating data science across the enterprise to drive value for the business and for patients</b>
17:35	<b>CLOSE OF SUMMIT DAY ONE</b>

DAY TWO – Thursday 12<sup>th</sup> September 2023

08:00	<b>REGISTRATION</b>
09:00	<b>WELCOME Inspired Minds</b>  <b>WELCOME</b> and chairs' opening remarks
09:20	<b>HEADLINER</b> <b>Leveraging data, digital, and AI as key cornerstones of innovation to transform drug discovery and development</b>
09:45	<b>PANEL DISCUSSION</b> <b>AI and the future workforce: A force for good or a threat to the current status quo?</b> <ul style="list-style-type: none"> <li>Numerous challenges regarding the organizational structure and culture that support AI, necessitate digital literacy and maturity within the workforce.</li> <li>How do we continually upskill our workforce to adopt these technologies and operationalize them?</li> <li>Backlog in imaging due to a shortage of radiologists. <ul style="list-style-type: none"> <li>Technology is essential in addressing this backlog across various imaging modalities such as X-rays, ultrasounds, CT, and MRI scans.</li> <li>Burnout among radiologists is also a significant concern, even with technology aimed at easing their workload.</li> </ul> </li> <li>AI education is paramount. It's not just healthcare; AI will permeate every aspect of society, so it's crucial to educate all healthcare workers <ul style="list-style-type: none"> <li>Programs for medical students to learn about AI and various methods to train them in this field</li> <li>Educational tools, to equip future healthcare professionals with knowledge about AI and how to use it effectively</li> </ul> </li> <li>Questions about how AI impacts job attractiveness and the evolving role of leadership in the digital age have come to the forefront. Leaders are now tasked with nurturing qualities like empathy and resilience to navigate the complexities of technological integration effectively.</li> <li>Significant changes in our workforce due to advancements like AI, which necessitates a comprehensive approach to workforce planning in healthcare and educational curriculum development in every country</li> </ul>
10:20	<b>HEADLINER</b> <b>Accelerating healthcare and life sciences innovation with advanced cloud, AI and accelerated computing capabilities</b>

10:45	<b>REFRESHMENTS &amp; NETWORKING</b>		
	<b>INTELLIGENT HEALTH: PLENARY</b>	<b>TRACK 1: PRACTICAL, REAL-WORLD AI USE CASES IN HEALTHCARE</b> <i>Examining the potential to transform care delivery and life science research, challenges faced and lessons learnt</i>	<b>TRACK 2: AI UNDER THE HOOD: WORKSHOPS</b> Join our hands-on workshops for practical exercises and to learn from leaders in the field
11:15	<b>HEADLINER</b> <b>Addressing the global crisis of healthcare inequities through the lens of technological, financial, and clinical intersectionality</b>	<b>USE CASE</b> (11:15 - 11:35) <b>Leading the way: How UMCG's LLM integration is revolutionising patient – doctor interactions</b> Discover how University Medical Center Groningen leads the way in healthcare innovation by integrating a supervised AI chatbot into its communication with patients. This groundbreaking AI application supports healthcare workers in managing written patient inquiries, resulting in notable improvements in efficiency and effectiveness within healthcare delivery processes. Other integrations of LLM's are helping doctors prepare for their clinics. By alleviating administrative burdens, this innovation liberates valuable time for healthcare providers, allowing them to focus more on delivering direct patient care	<b>WORKSHOP 4</b> (11:15 - 12:15)
11:35	<b>PANEL DISCUSSION</b> <b>Examining the importance of clinical evidence when transitioning from AI development to clinical implementation</b> <ul style="list-style-type: none"> <li>• What are the key metrics for assessing AI's success: focus on improving and saving lives equitably</li> <li>• Empowering consumers to turn theoretical AI concepts into tangible results, thereby bridging the gap between theory and reality.</li> <li>• Demonstrating trust</li> </ul>	<b>USE CASE</b> (11:55 - 11:55) <b>Digitization in medicine - artificial intelligence in the diagnosis of rare diseases</b>	
		<b>USE CASE</b> (11:55 - 12:15) <b>Pioneering the development of 3D printing and Virtual Reality (VR) in heart disease for clinicians, patients and teaching</b>	
12:15	<b>USE CASE</b> <b>Beyond one-size-fits-all: The promise of personalised pediatric care</b>	<b>USE CASE</b> (12:15 - 12:35)	<b>WORKSHOP 5</b> (12:25 - 12:55)

	In the realm of healthcare, discussions often revolve around adult populations, leaving pediatric medicine underrepresented despite its crucial significance. Recognizing the unique developmental needs and vulnerabilities of children, advancements in pediatric care are essential for ensuring optimal health outcomes throughout their lives. How can data science and AI contribute to understanding the potentially transformative impact on pediatric health? What avenues can be uncovered for optimising diagnosis, treatment, and outcomes in pediatric populations through predictive modelling and tailored medical interventions?	<b>Adapting to new technologies, reaping the benefits of data, and bringing artificial intelligence solutions into daily clinical practice</b>	
12:35	<b>HEADLINER</b> <b>Pioneering the use of AI to reimagine the future of structure-based drug discovery</b>	<b>USE CASE</b> (12:35 - 12:55) <b>Best practice for deployment of a hospital's data management strategy</b>	
12:55	<b>LUNCH &amp; NETWORKING</b>		
	<b>INTELLIGENT HEALTH: PLENARY</b>	<b>TRACK 1:</b> <b>INNOVATION STAGE: AI HEALTH TRANSFORMERS</b> <i>Hear from the leaders of the most disruptive AI health tech companies of tomorrow</i>	<b>TRACK 2:</b> <b>AI UNDER THE HOOD: WORKSHOPS</b> Join our hands-on workshops for practical exercises and to learn from leaders in the field
13:45	<b>HEADLINER</b> <b>Machine learning to Generative AI: Redefining and reimagining the healthcare of the future</b>	<b>INNOVATION INSIGHT</b> (13:45 - 14:05)	<b>ROUNDTABLE</b> (13:45 - 14:25)
14:05	<b>HEADLINER</b> <b>Healthcare cybersecurity: Effective strategies for addressing the abundance of growing threats in a timely and cost-efficient manner</b>	<b>INNOVATION INSIGHT</b> (14:05 - 14:25)	

14:25	<b>HEADLINER</b> <b>Responsible AI Co-Scientist in Healthcare</b>	<b>INNOVATION INSIGHT</b> (14:25-14:35)	
14:40	<b>PANEL DISCUSSION</b> <b>Data readiness: defining and addressing what constitutes good data quality</b> <ul style="list-style-type: none"> <li>• Exploring the correlation between quality data and AI</li> <li>• Implementing tactics to leverage quality data and AI for advancing healthcare innovation</li> <li>• How should these data issues be solved?</li> <li>• Growing focus on data readiness as many hospitals are transitioning towards open data practices to enhance their AI capabilities</li> </ul>	<b>Startups Showcase (14:35- 15:55)</b>  Five AI startups short-listed for our showcase get 10 minutes to pitch their business idea to four judges.  After each pitch, judges get 5 minutes to ask questions about the venture.	<b>WORKSHOP 7</b> (14:35-15:35)
15:25	<b>HEADLINER</b> <b>Realizing the full potential of multimodal artificial intelligence in health</b> <ul style="list-style-type: none"> <li>• Opportunities in personalized medicine, digital clinical trials, remote monitoring and care, pandemic surveillance, digital twin technology and virtual health assistants</li> <li>• Data, modeling and privacy challenges that must be overcome</li> </ul>		
15:45	<b>REFRESHMENTS &amp; NETWORKING</b>		
16:05	<b>HEADLINER</b>		
16:30	<b>PANEL DISCUSSION</b> <b>Will healthcare's new players make healthcare more affordable, accessible, and immediate?</b> <ul style="list-style-type: none"> <li>• Addressing the shift towards patients becoming digital healthcare consumers. <ul style="list-style-type: none"> <li>- The challenge lies in elevating the level of experience and engagement</li> </ul> </li> <li>• Understanding how the healthcare ecosystem is evolving, including the involvement of non-traditional players, will be key. This holistic view will provide valuable insights into the changing dynamics from various perspectives—consumers, healthcare providers, insurers, and patients</li> </ul>		



17:00	<b>CLOSE OF SUMMIT DAY TWO</b>