



## **IMIA Technology Assessment & Quality Development in Health Informatics - TAQD WG22 2021 Report**

### **Farah Magrabi, Co-Chair (2016-2022)**

Professor, Centre for Health Informatics,  
Australian Institute of Health Innovation, Macquarie University, Australia

### **Kathrin Cresswell, Co-Chair (2021- )**

Senior Lecturer, Usher Institute, University of Edinburgh, United Kingdom

### **Mirela Prgomet, Co-Chair (2023- )**

Research Fellow, Centre for Health Systems & Safety Research,  
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**Website:** <https://imia-medinfo.org/wp/technology-assessment-quality-development-in-health-informatics/>

## **1. Achievements – IMIA WG Events and projects conducted, and publications completed**

- Cresswell K, Rigby M, Georgiou A, Wong ZS, Kukhareva P, Medlock S, De Keizer NF, Magrabi F, Scott P, Ammenwerth E. The Role of Formative Evaluation in Promoting Digitally-based Health Equity and Reducing Bias for Resilient Health Systems: The Case of Patient Portals. Yearb Med Inform. 2022 Jun 2.
- Cresswell K, Rigby M, Magrabi F, Scott P, Brender J, Craven CK, Wong ZS, Kukhareva P, Ammenwerth E, Georgiou A, Medlock S, De Keizer NF, Nykanen P, Prgomet M, Williams R. Artificial Intelligence-based decision support systems highlight the need to strengthen health informatics evaluation and policy in healthcare (submitted to Health Policy)
- Drs Cresswell, Scott and Kukhareva organized a workshop on UN Sustainable Development Goals in Socio-technical Evaluation Frameworks for Health Information Technology at MIE 2022 in collaboration with Dr Noor.

## **2. Describe WG/SIG Participation - Engagement and participation in IMIA, IMIA Region or member health informatics events and activities in the past year**

- Co-chair, Medinfo 2021 (virtual event) and Medinfo 2023 Scientific Programme Committee: <https://imia-medinfo.org/wp/medinfo-2022/> (Philip Scott)
- Chair EFMI Evaluation Working Group 2022: <https://www.efmi.org/workinggroups/eval-assessment-of-health-information-systems> (Phillip Scott)
- Co-chair, Medinfo 2023: <https://imia-medinfo.org/wp/medinfo-2022/> (Farah Magrabi)
- Presentation & Scientific Discussion, What Can the Academy and Larger Informatics Field Do to Address Climate Change? IAHSI Plenary Meeting, Washington DC, 5 Nov 2022 (Farah Magrabi)

- Co-Chair Australian Artificial Intelligence (AI) in Healthcare Working Group on Safety, Quality and Ethics (Farah Magrabi)
- Member, ITU/WHO Focus Group AI for health - Clinical Evaluation Working Group (Farah Magrabi, Kathrin Cresswell)
- Member, Global Partnership for AI (GPAI) Multistakeholder Experts Group Plenary; and Working Group on Responsible use of AI (Farah Magrabi)

**3. Provide details of the WG/SIG's Outreach - Recruitment and engagement of new members and target communities, publicity, and representation at major events and/or on social media.**

- The WG has undertaken discussions to consider its strategic direction with the aim of repositioning the importance of evaluation in the context of major digital health developments, and “Grand Evaluation Challenges” including:
  - The challenge of not just producing new knowledge but aligning it as part of a Learning Health System.
  - The challenge of using evaluation to build trust and transparency in systems and their content (e.g., validation of AI systems).
  - The challenge of ensuring that digital health is person-centered, equitable and contributes to shared decision-making process.
  - The challenge of establishing evaluation processes that work with consumers and also support the health and well-being of the planet and all its living creatures.
- The WG has extended its membership spread to include representation from different IMIA regions. It has also established a plan for new WG members as part of a transition plan leading to a planned Working Group event at an IMIA-related forum (2023).
- A LinkedIn group was set up to publicise the activities of the WG and support recruitment of new members ([www.linkedin.com/groups/12728111/](http://www.linkedin.com/groups/12728111/)).

**4. Current List of members:**

- Elske Ammenwerth, Institute for Medical Informatics, UMIT TIROL - University for Health Sciences, Medical Informatics and Technology, Hall in Tyrol, Austria.
- Jytte Brender Emeritus Associate Professor, Aalborg University, Denmark.
- Catherine K. Craven, Assistant Professor, Clinical Research Informatics Division of Clinical Research Informatics Department of Population Health Sciences University of Texas Health Science Center San Antonio, US.
- Kathrin Cresswell, Senior Lecturer, Usher Institute of Population Health Sciences and Informatics, The University of Edinburgh, UK.
- Nicolette de Keizer Professor, Department of Medical Informatics, Academic Medical Center, Amsterdam, The Netherlands.
- Polina Kukhareva, PhD, MPH Research Scientist Department of Biomedical Informatics University of Utah, USA.
- Andrew Georgiou Professor, Centre for Health Systems & Safety Research, Australian Institute of Health Innovation, Macquarie University, Australia
- Hannele Hyppönen Research Manager, National Institute for Health and Welfare, Finland
- Farah Magrabi Professor, Centre for Health Informatics, Australian Institute of Health Innovation, Macquarie University, Australia.

- Stephanie "Ace" Medlock, Assistant Professor, Department of Medical Informatics, Academic Medical Center, Amsterdam, The Netherlands.
- Pirkko Nykänen Professor emerita, Tampere University, Faculty for Information Technology and communication Sciences, Finland.
- Mirela Prgomet Research Fellow, Centre for Health Systems & Safety Research, Australian Institute of Health Innovation, Macquarie University, Australia.
- Michael Rigby Emeritus Professor of Health Information Strategy, Keele University, United Kingdom.
- Philip Scott Programme Director, Digital Health & Care, University of Wales Trinity Saint David, United Kingdom.
- Zoie Shui-Yee Wong Associate Professor, Graduate School of Public Health, St. Luke's International University, OMURA Susumu & Mieko Memorial St. Luke's Center for Clinical Academia, Japan.