



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

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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

- Managing Pandemic Responses with Health Informatics – Challenges for Assessing Digital Health Technologies. *IMIA Yearbook of Medical Informatics* (2021) (TAQD WG contribution led by Magrabi)
- Evidence-based health informatics as the foundation for the COVID-19 response: a joint call for action. *Methods of Information in Medicine*. (2020) (Contributed to by TAQD WG).
- Special issue of the *International Journal of Medical Informatics (IJMI)* jointly edited by the Primary Care Informatics Working Group and the TAQD WG.
  - The international primary care response to the pandemic and beyond (2022) <https://www.sciencedirect.com/journal/international-journal-of-medical-informatics/special-issue/10CSK8D28M0>
- The role of formative evaluation in promoting digitally-based health equity and reducing bias for resilient health systems: the case of patient portals. *IMIA Yearbook of Medical Informatics* (2022 submission) (TAQD WG contribution led by Cresswell)
- Identifying and addressing digital health risks associated with emergency pandemic response: Problem identification, scoping review, and directions toward evidence-based evaluation. *IJMI* <https://doi.org/10.1016/j.ijmedinf.2021.104639> (TAQD WG contribution, Wong and Rigby)

## 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 Scientific Programme Committee: <https://imia-medinfo.org/wp/medinfo-2021/> (Scott)
- Chair EFMI Evaluation Working Group 2021: <https://www.efmi.org/workinggroups/eval-assessment-of-health-information-systems> (Phillip Scott)
- Co-Chair Australian Artificial Intelligence (AI) in Healthcare Working Group on Safety, Quality and Ethics (Magrabi)

- Member, ITU/WHO Focus Group AI for health - Clinical Evaluation Working Group (Magrabi)
- Fellows of the International Academy of Health Sciences Informatics (IAHSI) (de Keizer, Magrabi, Georgiou)

### **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 TAQD WG is considering its strategic direction 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-centred and contributes to shared decision making process.
  - The challenge of establishing evaluation processes that work with consumers rather than just for consumers
  - The challenge of getting balanced evidence created from objective evaluation, and of promoting evidence as a foundation for policy setting.
- TAQD WG has grown its membership across IMIA regions and established a transition plan for new WG chair/s leading to a projected Working Group event at an IMIA-related forum (2022).

### **4. Current List of members:**

- Elske Ammenwerth, Professor, Institute for Medical Informatics, UMIT TIROL - University for Health Sciences, Medical Informatics and Technology, Hall in Tyrol, Austria.
- Jytte Brender McNair, Emeritus Associate Professor, Department of Health Science and Technology, 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, 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, Reader in Health Informatics, Centre for Healthcare Modelling & Informatics, University of Portsmouth, 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.