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Dear Christian Lovis,

I am writing to submit our manuscript entitled “*Patient Safety Informatics: Meeting the challenges of emerging digital health*” for consideration as a JMIR Medical Informatics Viewpoint paper. I would be grateful if you would consider this submission for publication.

In our paper, we describe the output from a workshop that focused on identifying the patient-safety challenges associated with emerging digital health technologies. The workshop was the first in a series of collaborations led by the digital health themes within the Manchester and Yorkshire NIHR Patient Safety Translational Research Centres (NIHR: National Institute for Health Research). The paper presents a definition of Patient Safety Informatics, discusses the challenges identified in the workshop, and presents recommendations to address the patient-safety concerns posed by them.

We are motivated by the acknowledgement that the fourth industrial revolution is based on cyber-physical systems and the connectivity of devices. It is currently unclear what the consequences are for patient safety as existing digital health technologies become ubiquitous with increasing pace and interact in unforeseen ways. We hope our contribution complements discussions recently published in JMIR Medical Informatics on the role of A.I. in patient safety (Choudhury and Asan 2020) and the patient-safety considerations for health information technology, more generally (Feldman, Buchalter and Hayes 2018).

We convened a workshop of representatives from a diverse range of expertise in the development and evaluation of digital health technologies. These included clinicians, commercial developers of digital health technologies, software engineers, and researchers in applied health, health services, safety science, human factors, health informatics, and clinical decision making.

Our intention was to begin the process of developing the theoretical and practical foundations of Patient Safety Informatics, which lies at the intersection of digital health, safety science and clinical care. We hope our paper will be of interest to the multidisciplinary readership of the JMIR Medical Informatics.

In accordance with the submission checklist, we agree to pay the article processing fees. If you require any additional information regarding our manuscript, please do not hesitate to contact us. Thank you for your time and consideration.

Sincerely,

Ciarán McInerney, PhD.

Jonathan Benn, Dawn Dowding, Ibrahim, Habli, David A. Jenkins, Carolyn McCrorie, Niels Peek, Rebecca Randell, Richard Williams and Owen A. Johnson

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