

## CONFERENCE PRESENTATION

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**Author/Speaker:**

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**Title:**

**Implications of using Medical Software-as-a-Service (MSaaS) for a patient’s integrity**

**Abstract:**

Biotech industry is offering more and more innovative solutions for patients every year. Significant part of it is focused on medical devices that nowadays are more often supported with a dedicated smartphone application. That kind of technology is called as a Remote Patient Monitoring (RPM) and is using Medical Software as a Service (MSaaS) with – in some cases – AI support. As an example, I can indicate an insulin pump.

Unlike traditional medical hardware, MSaaS relies on continuous cloud connection, proprietary algorithms, and subscription-based access to govern the functionality of advanced biomedical devices.

In my opinion MSaaS may violate patient’s integrity. For the purpose of this research, I understand patient’s integrity as a patient’s wholeness – their physical body, mental state, dignity, autonomy and privacy (with personal data as a core). The subscription-based environment jeopardies patient’s access to MSaaS devices – cost of subscription may increase, and patient might be economically excluded; the software supplier may go bankrupt; data collected in the cloud might not be effectively secured. When the functionality of one’s body is depended on a software supplier, then the right to integrity is threatened by algorithmic capacity, service discontinuation, and data-driven interventions.

In my research I am analyzing the consequences of software-dependent solutions. What happens with the right to integrity when a bodily function can be “turned off” due to a failed update, server outage, or expired license? Does an unauthorized modification violate patient’s integrity? Does the standard of care require ensuring that the software remains transparent, accessible, and under the patient’s ultimate control?

Those questions will be answered during my presentation.