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# Enhancing Collaboration and Innovation in Patient Monitoring: Insights from the Patient Monitoring Roundtable (PMRT)

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**Abstract.** The Patient Monitoring Roundtable (PMRT) provides a platform for interdisciplinary collaboration, addressing clinical challenges and fostering innovation in patient monitoring technologies. This study uses the event "Patient Monitoring Today: Developments and Current Challenges" as a case example to showcase the Roundtable's structure and perceived impact. Findings from the participant survey highlight the interprofessional nature of the attendees and the value of informal exchanges between clinicians and manufacturers, with most participants considering the content highly relevant to their professional interests.

Keywords. Patient Monitoring, Patient Monitoring Roundtable, Interdisciplinary collaboration

# 1. Introduction

For the successful implementation of medical-technical innovations, consideration of the needs and expectations of the users is of crucial importance [1,2]. This is the primary goal of the regular Patient Monitoring Roundtable (PMRT): to create a low-threshold platform that promotes the exchange between the disciplines involved and thus promotes the development and application of monitoring technologies by addressing clinical problems and enabling direct feedback. The event has been held eight times a year since 2022 in the context of a large academic teaching hospital. This study presents the concept of the PMRT, using one of the events titled "Patient Monitoring Today: Developments and Current Challenges" as a case example to illustrate how the platform supports collaboration and drives innovation in patient monitoring technologies.

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# 2. Methods

The Roundtable employed an interactive workshop approach, consisting of four stations (three led by industry partners showcasing and discussing current monitoring devices with participants, one focused on the utilization of monitoring data in research settings) Three sessions of 30 minutes each were conducted. Afterwards, participants reconvened for a group discussion to summarize insights and foster interdisciplinary dialogue, followed by a networking session for further informal exchange. A survey was conducted to assess the impact measured by the perceived value of the event and gather feedback.

# 3. Results

Twenty-five participants took part in the survey, including 5 physicians, 3 nurses, 3 researchers, 8 industry representatives, and 5 from other fields. The most valued aspect was the informal exchange with clinicians and manufacturers, followed by workshops, keynotes, small group discussions, and renowned experts. Six participants were first-time attendees, five had attended 2-3 times, and 13 had attended four or more sessions. N=16 found the statement 'The content of the PMRT events I attended is relevant to my professional interests' to be very true, n=8 as true, and n=1 did not provide any details.

### 4. Discussion

This study underscores the importance of interdisciplinary collaboration in advancing patient monitoring. The main impact of the roundtable is derived from three key aspects. First, informal exchange is considered particularly valuable. Second, the relevance of the information provided is perceiving as important and directly applicable to their professional work. Third, the consistent participation of individuals demonstrates that the roundtable is regarded as valuable over the long term. Interestingly, the lower relevance of renowned experts and favoring of workshops suggests a preference for practical, peer-to-peer exchanges and hands-on approach over passive presentations.

# 5. Conclusions

The participants perceive the PMRT as an effective platform for interdisciplinary dialogue and innovation in patient monitoring technologies. Its focus on interactive, real-world discussions and collaboration is well-received by participants, supporting ongoing development in this field.

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