

**Assessment 2– Technology Evaluation and Needs Assessment**

Name

Capella University

Course name

Faculty Name

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## **Technology Evaluation and Needs Assessment**

The assessment evaluates our practice site's healthcare technology infrastructure and readiness to implement remote patient monitoring (RPM) devices. Wireless sending of data from patients' vital signs, like blood pressure, blood sugar, and oxygen levels, to healthcare providers in real time is possible through RPM technology. This enhances patient outcomes and decreases hospital readmissions as health care transitions into value-based care. In addition, we are interested in extending patient monitoring beyond the usual clinical settings to efficiently and equitably enhance patient care delivery. This executive summary will cover why a needs assessment is needed, the current technological landscape, and the recommendation to implement RPM devices to address gaps in patient care. The results will inform decision-making regarding integrating RPM into organizational healthcare practice.

### **Importance and Relevance of the Needs Assessment**

The needs assessments identify the gap between the current state, the desired goals, and the possible solutions to bridge the gap (Ravaghi et al., 2023). Providers perform several needs assessments in healthcare settings, including technological integration, which enhances patient outcomes and nursing care. This facilitates organizations to match their technological resources with the changing demands of their patients and workforce. Nurse leaders use needs assessment to review current practices, identify gaps, and seek opportunities to incorporate new technologies to improve care delivery, like RPM devices. Identifying technological gaps enables nurse leaders to make informed decisions to improve patient care and workflow efficiency.

Nurse leaders must understand effective needs assessment processes since these assessments determine strategic decisions on technology investments and upgrades (Aldoseri et al., 2024). From these assessments, new valuable findings can be made in areas requiring improvement, allowing nurse leaders to prioritize interventions based on patient needs,

resource availability, and organizational goals. This information is crucial for optimizing care delivery and ensuring the technological infrastructure supports diverse patient populations. Before conducting the needs assessment, it was assumed that there were significant gaps in current technology practices in the practice setting, particularly regarding remote patient monitoring. These gaps could hinder real-time patient health tracking, especially for chronic conditions. This assumption highlighted the need for a needs assessment to ensure RPM devices could address these issues and improve care delivery.

### **Technological Infrastructure of the Organization**

Our practice site's current technology infrastructure uses electronic health records (EHRs), telehealth platforms for virtual consultations, and standard clinic monitoring devices. RPM technology is either underutilized or not fully integrated into the current system. However, telehealth services do not provide continuous health monitoring for patients with chronic conditions; therefore, providers are unable to implement timely interventions. Therefore, it is essential to unite the two devices to enhance care quality and timely treatment (Olawade et al., 2024).