

HEALTHCARE

**REMOTE PATIENT
MONITORING IN
HOSPITAL SETTING
WITH PRORITHM IR
PLATFORM AND
DEVICES**

BY DEEFACTS

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END USERS

Patient: The individual admitted to the hospital and being monitored remotely.

Nurse: The healthcare professional responsible for patient care and monitoring within the hospital.

Physician: The attending physician overseeing the patient's treatment and care.

proRithm Device: The medical device used by the patient to collect and transmit health data.

proRithm IR Platform: The remote monitoring platform used by healthcare providers to track and manage patient data.

Hospital IT Support: The technical support team responsible for ensuring the functionality of the proRithm IR Platform and proRithm Devices within the hospital setting.

“AI-ENABLED REMOTE PATIENT MONITORING IMPROVES CHRONIC DISEASE MANAGEMENT IN HOSPITAL”



PRECONDITIONS

- The hospital has implemented a remote patient monitoring system utilizing the proRithm IR Platform and device.
- Patients admitted to the hospital have been identified as suitable candidates for remote monitoring.
- Hospital staff, including nurses and physicians, have been trained on the use of the proRithm IR Platform and device.
- Patients have consented to remote monitoring and have been briefed on the process.

STANDARD PROCESS FLOW

Patient Admission and Setup:

- Upon admission to the hospital, eligible patients are provided with a proRithm Device and instructed on its setup and usage.

- Hospital staff assist the patient in connecting the device to BLE Gateway or personal mobile device.

Continuous Monitoring:

- Throughout the patient's hospital stay, the proRithm Device continuously collects and transmits vital signs and other relevant health data.

- Data collected may include heart rate, blood pressure, oxygen saturation, temperature, and activity level.

Data Transmission and Integration:

- The proRithm Device securely transmits the collected data to the proRithm IR Platform integrated with the hospital's electronic health record (EHR) system.

- Hospital IT Support ensures seamless integration and troubleshoots any connectivity issues.

Real-time Alerts and Notifications:

- The proRithm IR Platform analyzes the incoming data in real-time using predefined algorithms.

- If abnormal trends or critical health indicators are detected, the platform generates alerts and notifications for the nurse and physician.

Nurse Monitoring and Response:

- Nurses receive alerts on their designated monitoring stations or mobile devices.

- They review the patient's data and assess the situation, intervening as necessary with appropriate clinical actions.

- Nurses document their assessments and interventions within the EHR system.



Physician Review and Intervention:

- Physicians have access to the proRithm IR Platform to review patient data remotely.
- They monitor the patient's condition and collaborate with nurses to adjust treatment plans or order additional interventions as needed.

Patient Education and Engagement:

- Hospital staff educate patients about the purpose of remote monitoring and encourage active participation in their care.

- Patients receive regular updates on their health status and are encouraged to ask questions or report any concerns to nursing staff.

Postconditions:

- Hospital staff have continuously monitored the patient's health status remotely using the proRithm IR Platform and device.
- Any abnormalities or deteriorations in the patient's condition have been promptly addressed through nurse interventions and physician oversight.
- Patient data and interventions are accurately documented within the hospital's EHR system for continuity of care.

Exceptions:

- Technical issues with the proRithm Device, proRithm IR Platform, or hospital IT infrastructure may disrupt data transmission or analysis.
- In cases of severe medical emergencies or critical events, bedside care takes precedence over remote monitoring, and immediate in-person interventions are initiated.
- Patients may opt-out of remote monitoring at any time or request additional assistance if they encounter difficulties with the devices or platform.