

Acceleration of Virtual Care through Remote Patient Monitoring and Interactive Care Plans

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PROJECT BACKGROUND

Mayo Clinic is the largest integrated, not-for-profit medical group practice that is sought to be the global leader in advancing healthcare. At the start of 2023, The Mayo Clinic Arizona (MCA) campus set out to leverage new technology by implementing Virtual Care plans that allow patients to continue to receive expert care from the comfort of their home. The Virtual Care plans include Remote Patient Monitoring (RPM) and Interactive Care Plan (ICP). Remote Patient Monitoring program uses remote monitoring technology to provide care to patients in their homes and decrease their risk of adverse health events. ICP functions as an app-based continuation of care that helps patients carry out their plan of care and maintain or improve health.

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OBJECTIVES

The aim of this project was to kick-off twelve (12) Virtual Care plans that provide real-time clinical insights and meaningful connections back to the care team to reduce hospital length of stay, reduce ED visits and admissions, and connect patients to alternative care delivery options. .

METHODS

The Center for Digital Health (CDH) consulted multiple stakeholders statistical support, evaluation and statistical support, and nursing to conclude which specialty areas of MCA would most benefit from and operations leadership.

the creation of a Virtual Care plan. The targeted areas selected were The twelve plans were parsed out throughout the calendar year and Gastroenterology & Hepatology, Hematology & Oncology, specialty areas were introduced to and trained on utilizing the Cardiology, Primary Care, Nephrology, Endocrinology, and Kidney Virtual care plans. Patients applicable for enrollment were identified Transplant. Based on the area's needs, they were either assigned a based on specialized inclusion and exclusion criteria in combination Remote Patient Monitoring (RPM) plan or an Interactive Care (ICP) with care team recommendation. Once enrolled in a plan, patients plan, the former being appropriate for high acuity patients. CDH were given a technology kit including Bluetooth enabled biometric leadership submitted an internal grant to support a catalyst team vitals wearables and access to a Virtual Care plan portal. With focused on accelerating the adoption of RPM and ICP plans in the patient specific alerting presets enabled for the devices, the care selected specialties. The proposed catalyst team was comprised of a team was notified when a patient's vitals were outside of a safe physician champion for each clinical product (RPM/ICP), float pool range. Once triaged by a virtual nursing team, the patient's alert nursing resources dedicated to these practices, project manager, was escalated to their physician to access their condition.

IMPLEMENTATION

- The twelve plans were parsed out throughout the calendar vear
- Specialty areas were introduced to and trained on utilizing the Virtual care plans.
- Patients enrolled to plans inclusion and exclusion criteria and care team recommendation.
- Patients were provided with a technology kit including blue tooth enabled biometric vitals wearables as well as access to a Virtual Care plan portal.
- Care team notified of patient vitals outside of safe range.
- Issue escalation to providing physician to access their condition.



• Conduct in-depth research analysis of patient satisfaction, overall effect on ED visits, and value add to the practice.

NEXT STEPS

TECHNOLOGY DEVICE PACKAGE

- Share successes and best practices with other specialties and Mayo Clinic Campuses to increase Virtual Care plan usage.
- Continue building Virtual Care plans for speciality areas that have a large demand for at-home continued care

RESULTS

RPM Plans implemented in 2023 at Mayo Clinic Arizona

	CAD RPM	CAR-T RPM	Cirrhosis RPM	COPD RPM	Respiratory Infection RPM/ COVID-19	SHF RPM	Hypertension RPM	Neutropenic Fever RPM	
nrollments	34	28	4	13	59	91	355	5	
D visits 3 months prior	6	2	0	0	366	21	15	~	
lumber of ED Visits in 30 days	5	3	0	0	4	7	9	~	
lumber of patients hospitalized 3 months prior Unplanned	0	1	0	1	42	10	1	~	
lumber of patients hospitalized in 30 days - Inplanned	5	7	0	0	8	10	9	~	

ICP Plans implemented in 2023 at Mayo Clinic Arizona

	SHF ICP	IBD ICP	Type 2 Diabetes ICP	Hypertension ICP
Enrollments	29	41	42	0

