

Leveraging Mobile Application Technology to Facilitate Enhanced Recovery Provider Education

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Background

Enhanced recovery has revolutionized management of patients to improve outcomes. Provider education has emerged as essential to successfully build enhanced recovery into the fabric of patient care activities at MD Anderson Cancer Center. In 2016, our team identified challenges in sharing elements of the enhanced recovery pathway across various phases of care to all care providers.

To overcome this adoption barrier, a reference pamphlet was developed to distribute a standard pathway to multidisciplinary teams. Over time, this pamphlet transformed into a "pocket guide". This guide provided a quick reference of specific orders designated for the patient's journey, including information on medications, ambulation, diet, symptom management, and more.

To facilitate timely updates, and readily available ERP information to the providers, a collaborative effort with the Enterprise Development and Integration (EDI) team was established. A smartphone application was developed and released in July 2020.

The objective of the enhanced recovery mobile application is to provide an electronic, easily accessible education tool for multidisciplinary team members.

Methods

Software was developed using the Agile Scrum methodology, a project management process that relies on incremental development. Each iteration consisted of two-to four-week sprints, where each sprint's goal was to build the most important features first and deliver a functioning product. Initially, the application was designed and developed for the Cystectomy and Nephrectomy ERP pathways.

After presentation to institutional ERP members for feedback, additional seven surgical pathways were added. A six-question survey was distributed to all ERP members to obtain end user feedback and identify further improvement opportunities.





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