

Enhancing Patient Blood Management through AvoMD Technology Integration

Margit Kaufman MD, Brendt de St Paer ACNP, Maxwell Janosky MD, Nisha Gandhi MD

Introduction

Englewood Health is a pioneer in patient blood management (PBM), prioritizing transfusion-free techniques to enhance outcomes, minimize transfusion risks, and respect patients' beliefs. The adoption of PBM reflects an evidence-based strategy aimed at conserving a patient's own blood, anemia management and tolerance, optimizing coagulation, thereby reducing postoperative complications, speeding recovery, and shortening hospital stays. However, the progressive nature of the Bloodless protocol and unfamiliarity with thromboelastography interpretation has presented challenges in physician compliance with hospital guidelines and policies, leading to frequent referrals to the specialized PBM department for guidance.

Technological applications have been shown to support better clinical decision-making and improved patient outcomes. Research has shown that apps can improve clinical efficiency via more rapid access to clinical support resources, improved quality of documentation, and improved workflow patterns which are all issues repeatedly mentioned as areas that help reduce physician burnout.

Objectives & Methods

The main goal of this quality improvement project was to improve physician access to and understanding of patient blood management (PBM) protocols while reducing reliance on the PBM department. By partnering with AvoMD, a clinician support platform, we aimed to integrate these protocols into the clinical workflow, standardizing care and ensuring immediate access to guidelines and protocols without direct consultation.

Englewood Health collaborated with AvoMD to centralize and convert our customized PBM protocols into actionable tools accessible within and outside the Electronic Health Record (EHR) system. This integration facilitated the inclusion of guidelines into the clinical workflow, granting physicians instant access to patient blood management strategies at the point of care. Over a 12+ month period, we closely monitored need for PBM department intervention and utilization of the AvoMD platform.

AvoMD Application: Mobile and EPIC Integrated

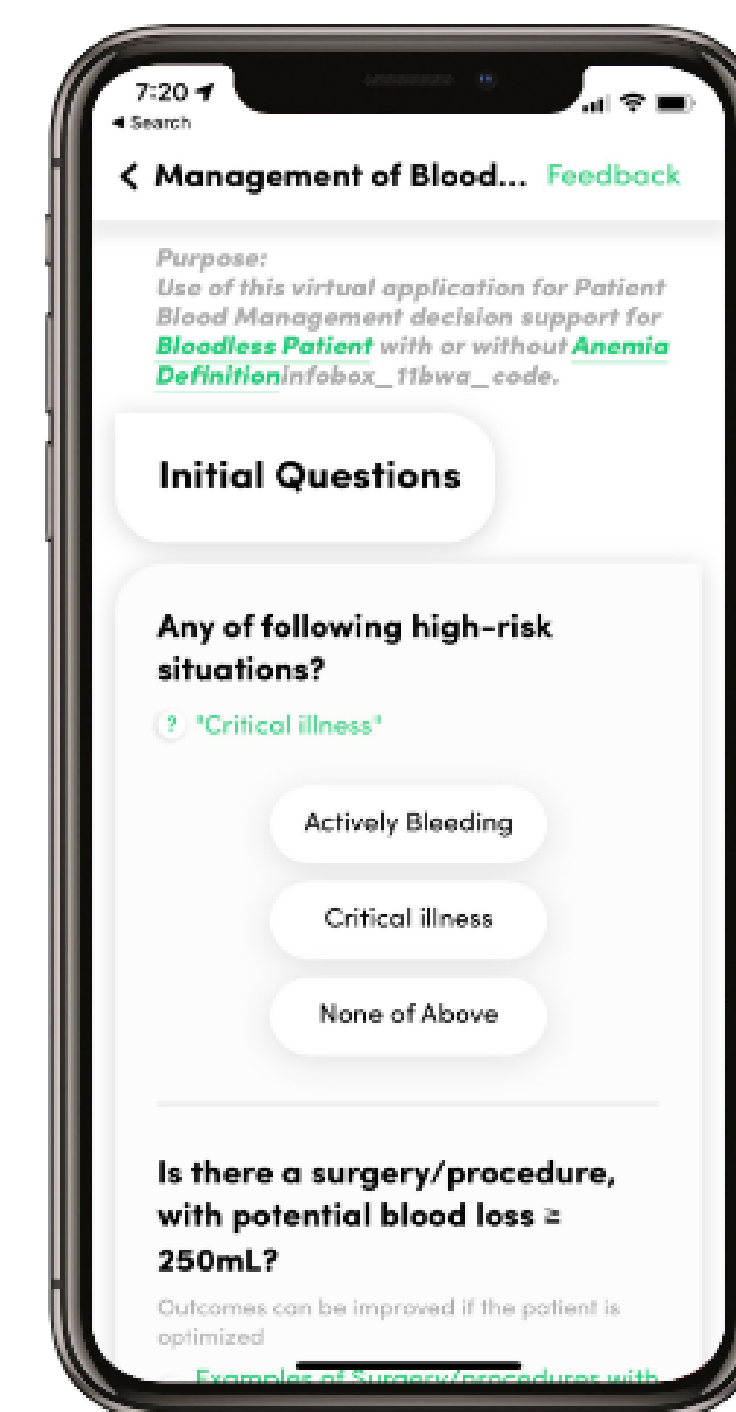
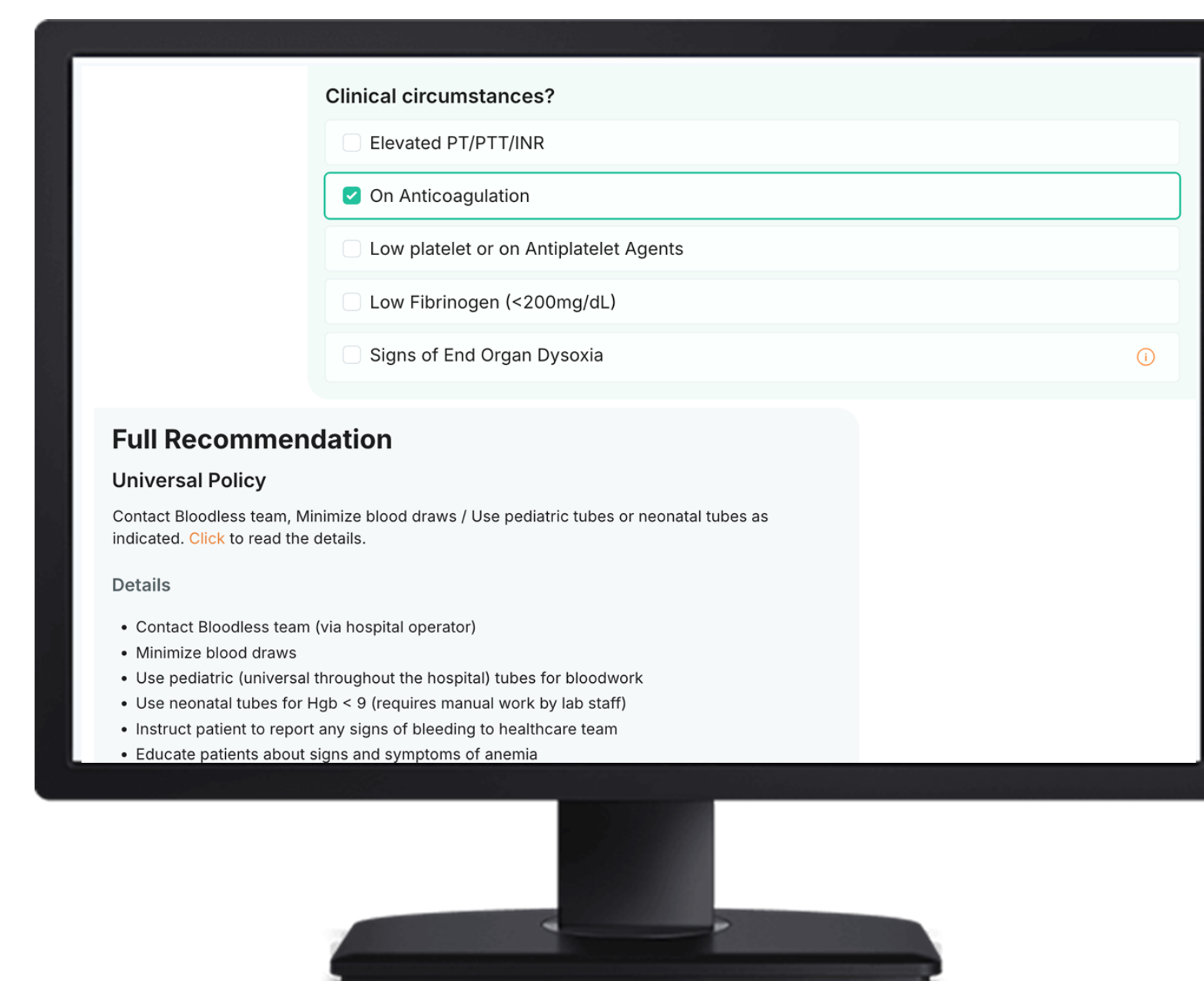


Image by picapp.net



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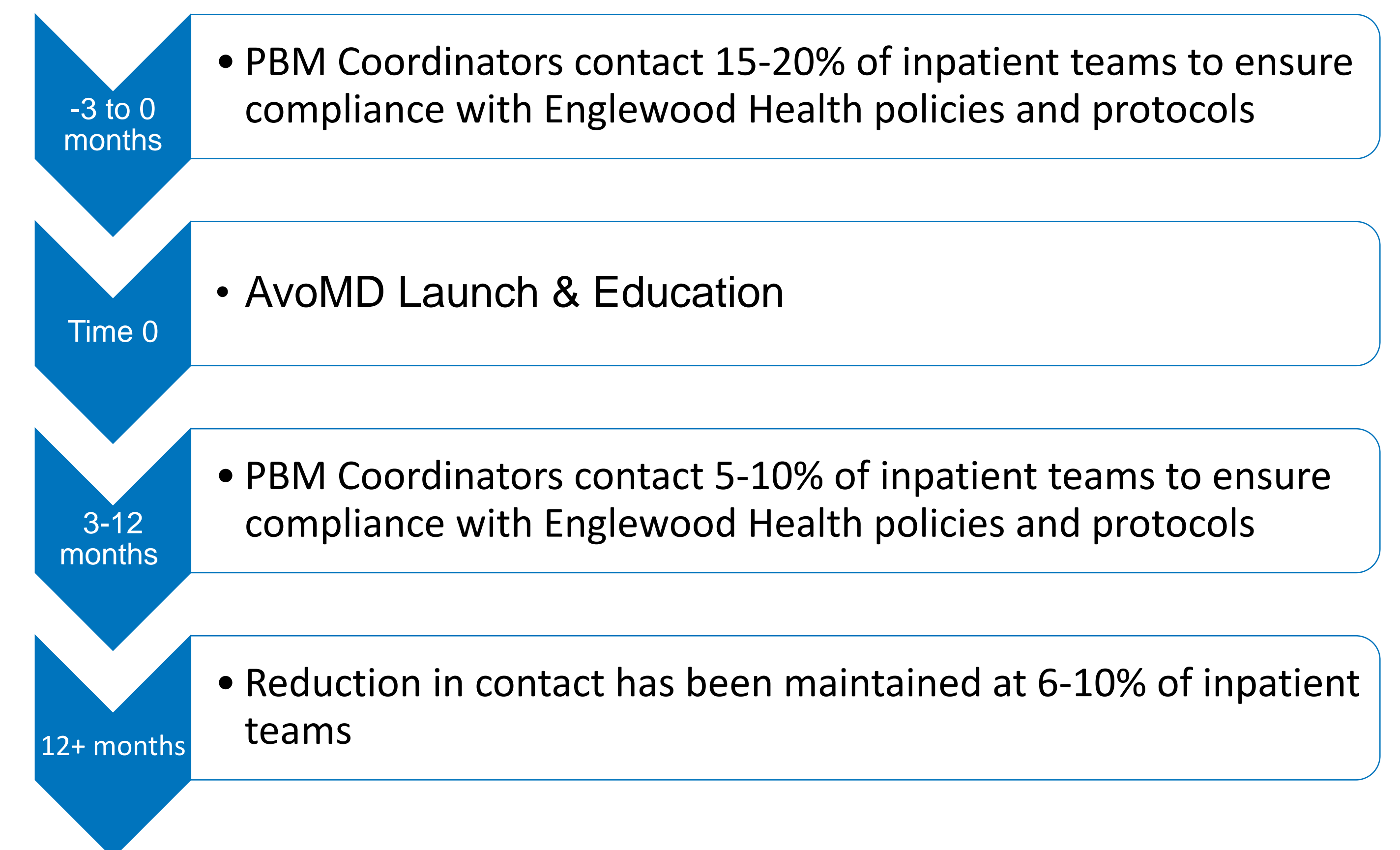
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Results

Timeline and Effect on Workload of PBM Coordinators

- Bloodless inpatient volume ranged monthly from 80-175



Over 120 users of the app

- Vast majority are house staff or members of Internal Medicine Hospitalist team
- These clinicians care for >75% of medical inpatients

Discussion

The integration of Englewood's PBM protocols into the clinical workflow through the AvoMD platform represents an advancement in the quality of patient care at Englewood Health. By providing physicians with immediate access to evidence-based guidelines and protocols, we have not only reduced the dependency on specialized consultations but also empowered our medical staff to make informed decisions that align with our commitment to PBM. This project underscores the potential of technology to enhance patient safety, improve clinical outcomes, and respect the individual needs and beliefs of our patients. Future initiatives can focus on expanding the reach of this integration across additional medical departments and exploring further opportunities to leverage technology in support of our mission to provide safe, effective, and patient-centered care.

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