

Implementing Assessment & Prevention of Venous Thromboembolism for admitted patients at Communicable Disease Center

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Introduction

- ❖ Venous Thromboembolism (VTE) is a medical condition that includes deep vein thrombosis (DVT) and pulmonary embolism (PE).
- ❖ In VTE a clot forms (thrombus) in a vein (venous) and then breaks free and travels (embolism) through the venous system.
- ❖ It is a major public health problem and may cause significant mortality and morbidity among hospitalized patients.
- ❖ VTE was estimated to be among the most common preventable causes of hospital death.
- ❖ Therefore, a simple VTE risk assessment approach has been advocated to reduce this threat through timely initiation of prophylaxis.
- ❖ There was no standardized VTE risk assessment tool being utilized for inpatients in Communicable Disease Center (CDC), therefore this quality improvement project was initiated.

AIM

- ❖ **Overall aim:** Increase VTE risk assessment, prescription and administration of appropriate thromboprophylaxis for CDC inpatients within 24 hours of admission.
- ❖ **Specific objective:** To increase the percentage of patients assessed for VTE from 0% to 50% by September 2018 and to 100% by the end of December 2018.

Methodology

- ❖ A multidisciplinary team was established to achieve the project targets
- ❖ A process map and Fishbone diagrams were prepared. [Figure 1, 2]

Methodology

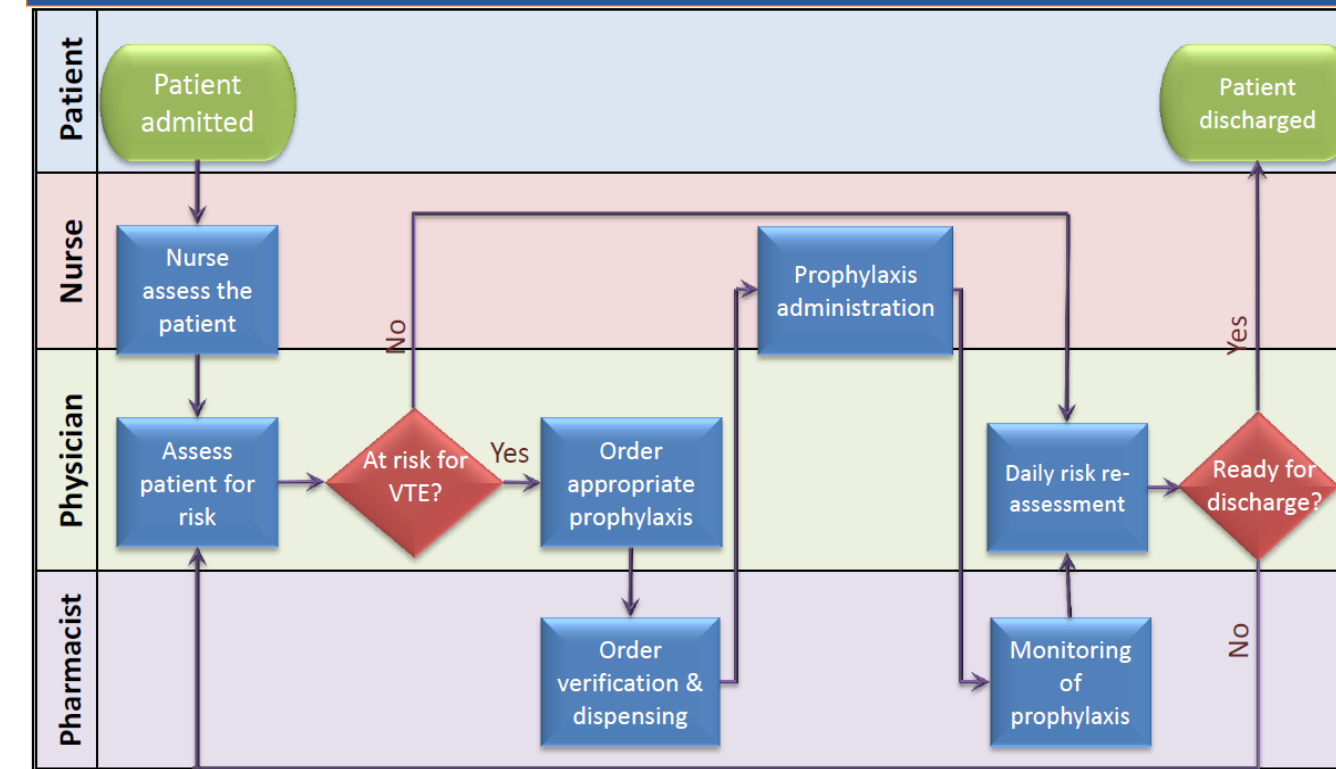


Figure 1: VTE Process Map at CDC

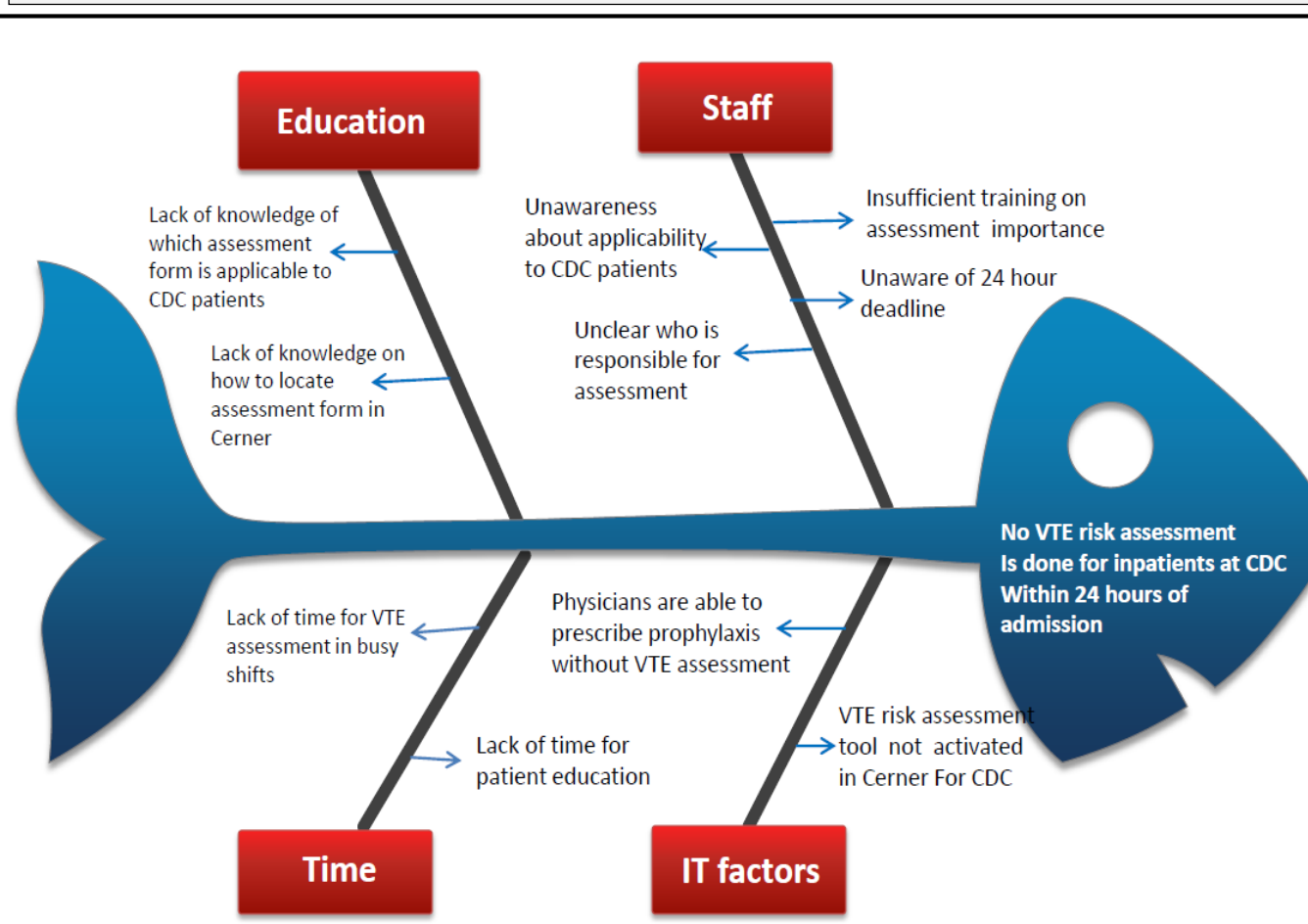
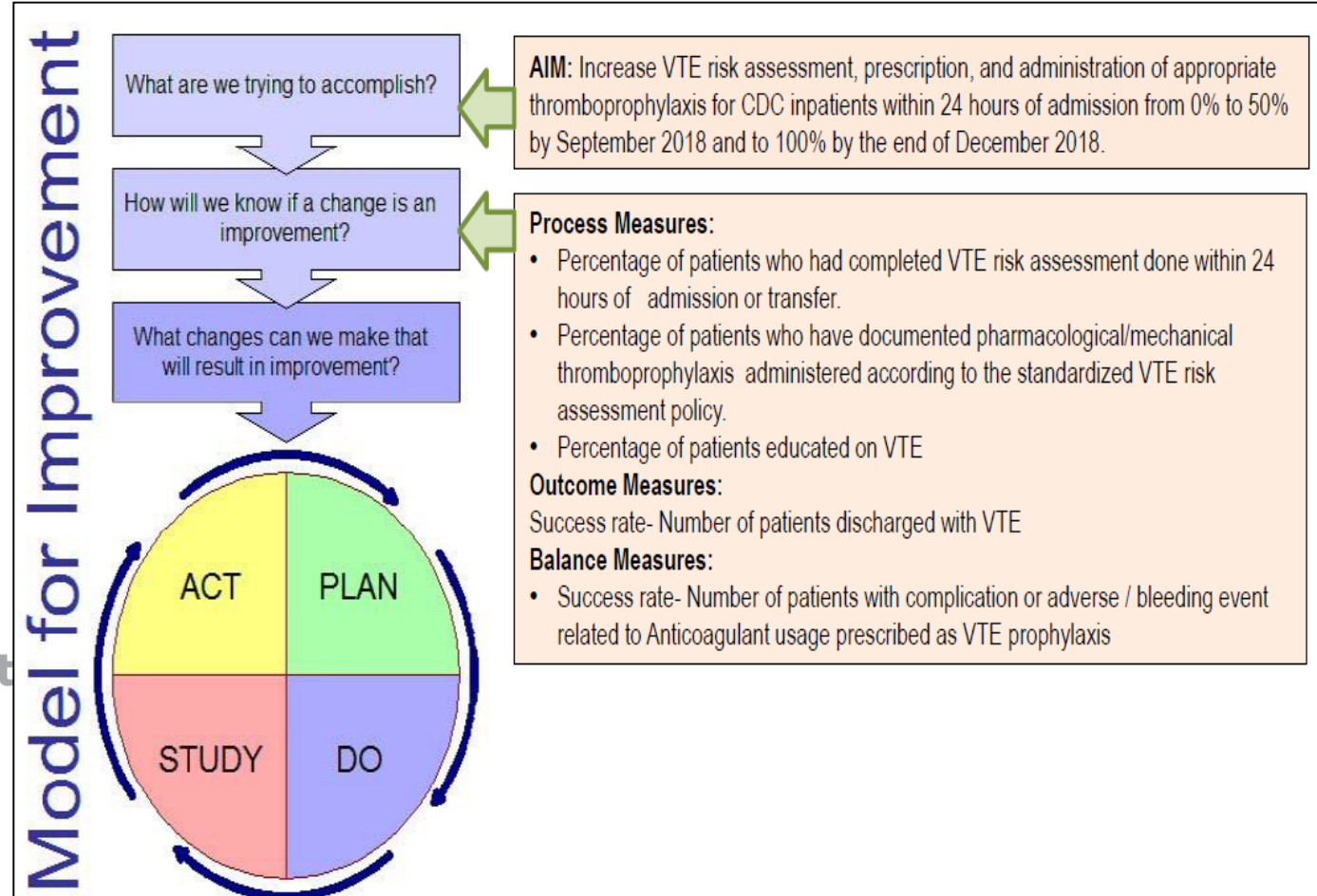


Figure 2: VTE Cause Effect Diagram

- ❖ The Model For Improvement method was employed in this project.
- ❖ Multiple PDSA cycles were tested using different methods. [Figure3]



Results

❖ Process Measures:

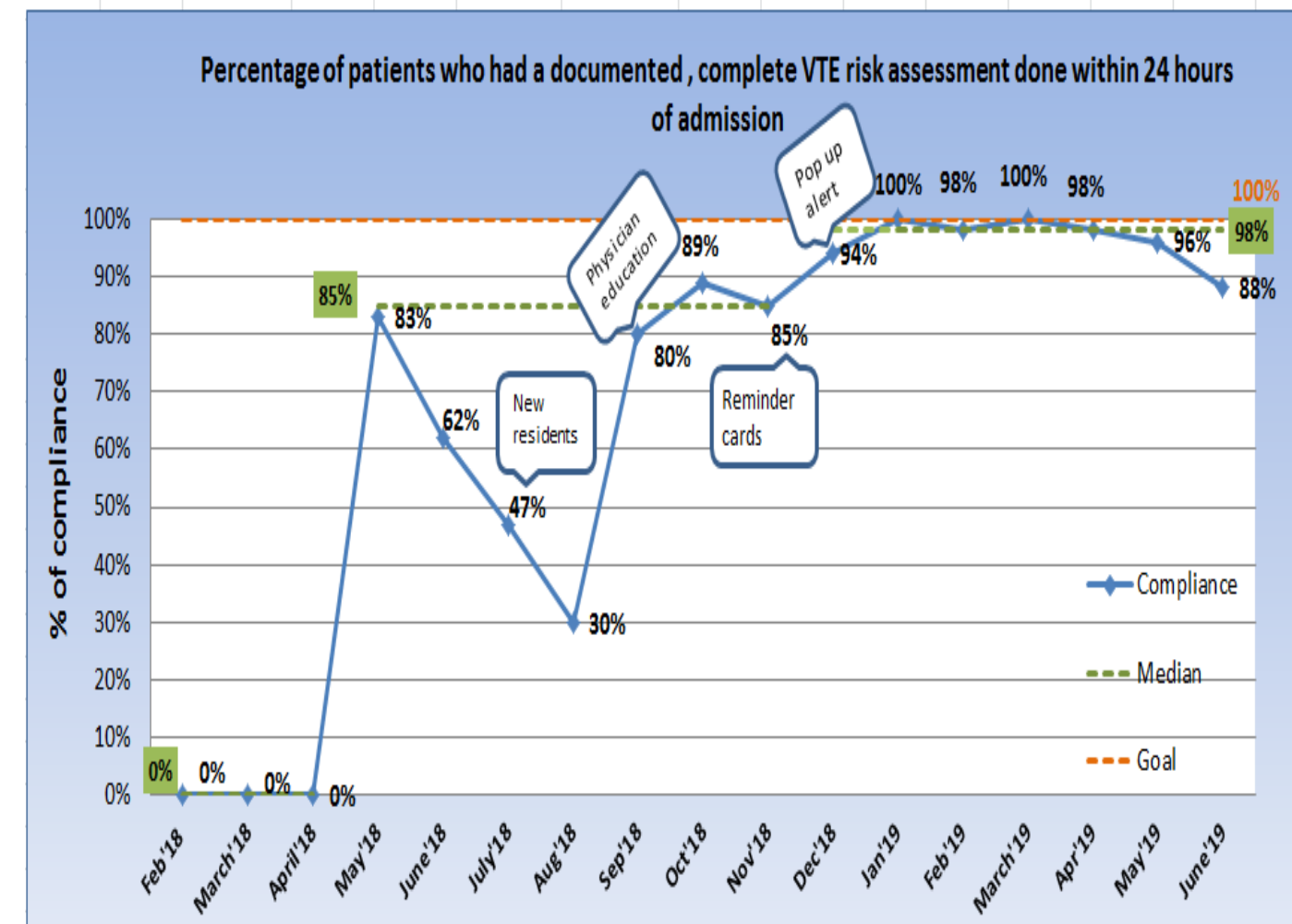
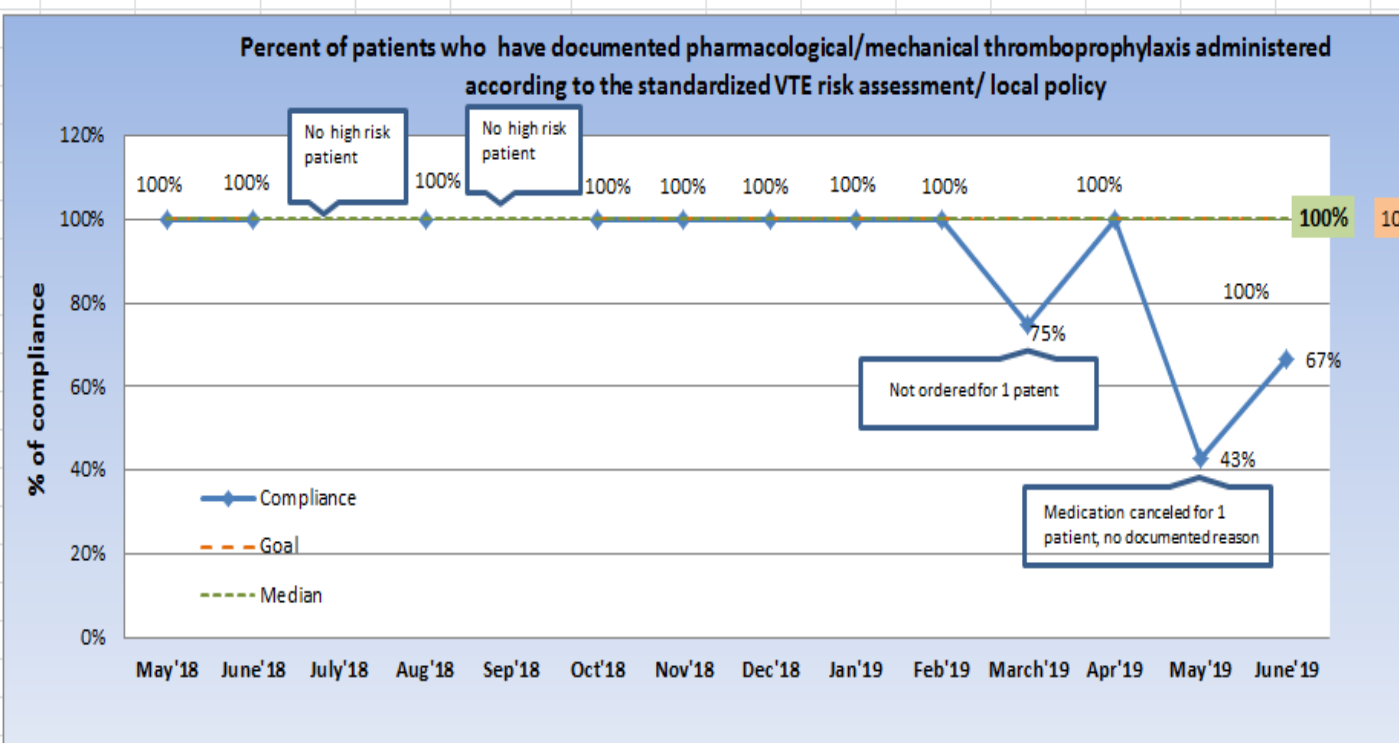


Chart 1: Compliance with VTE risk assessment within 24-hrs of admission



❖ Balance Measures:

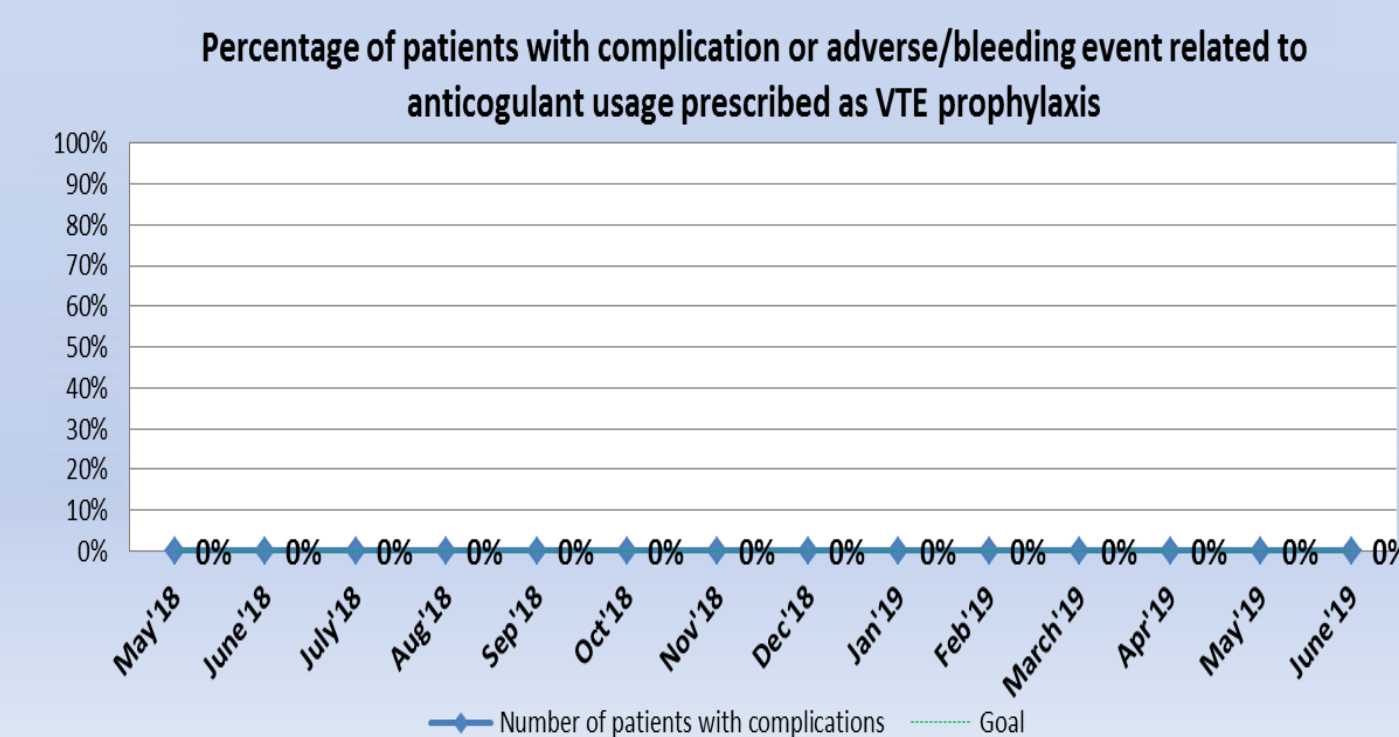


Chart 3: Number of patients developed adverse reactions to VTE prophylaxis

Results

❖ Outcome Measures:

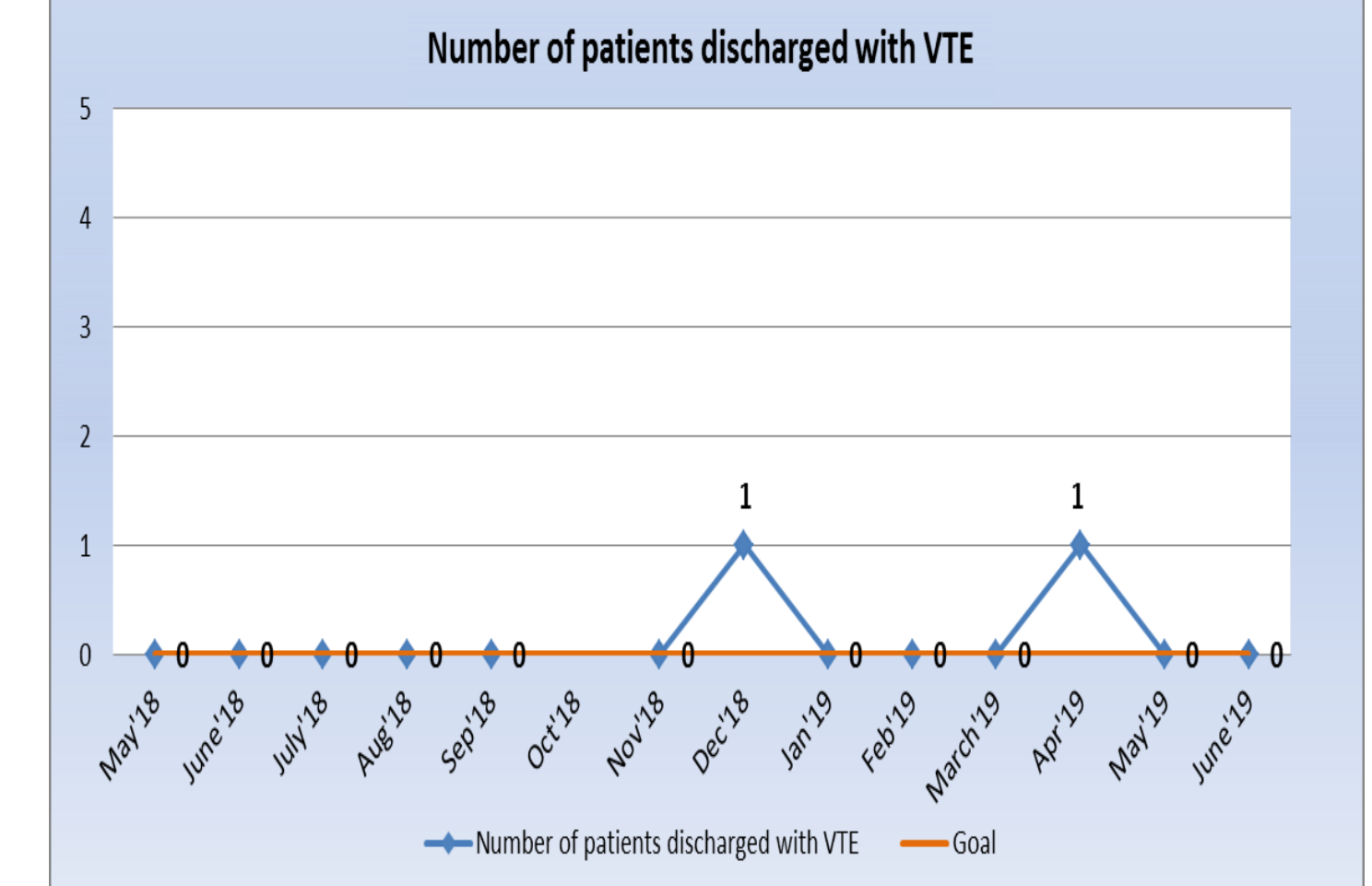


Chart 4: Number of patients Developed VTE in CDC

Discussion/Conclusion

❖ VTE Risk Assessment:

- ❖ We created a process for VTE risk assessment and prophylaxis in CDC.
- ❖ The VTE assessment form was successfully implemented in Cerner for CDC inpatients .
- ❖ The overall compliance of VTE assessment within 24 hours has improved from 0 to 98% (median)

❖ VTE Education to staff:



In Collaboration with