## Quality Improvement Conference

# Enhancing Phlebitis Prevention: A Private Hospital Approach

Sutha Jeya Kumar, Clinical Educator sutha.jeyakumar@mountelizabeth.com.sg

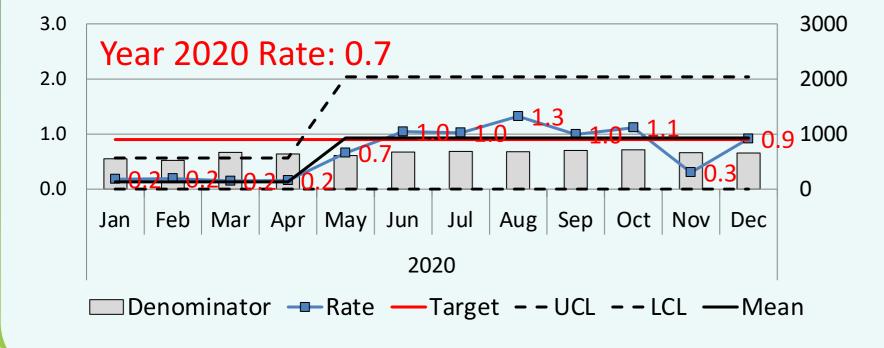
Elaine Choo Li Ming, Deputy Director of Nursing elaine.choo@mountelizabeth.com.sg

Lim Kah Bee, Nurse Manager Anf Tze Qin Jim, Assistant Nurse Clinician



#### **Problem Statement**

From January to June 2020, a private hospital had 26 phlebitis cases, 3 of which had moderate to severe adverse outcomes requiring further treatment. They were Staphylococcus Aureus Bacteremia requiring thrombectomy, 1cm necrotic skin needing wound debridement and a case of eschar that required removal with a negative pressure wound therapy.



### **Project Aim**

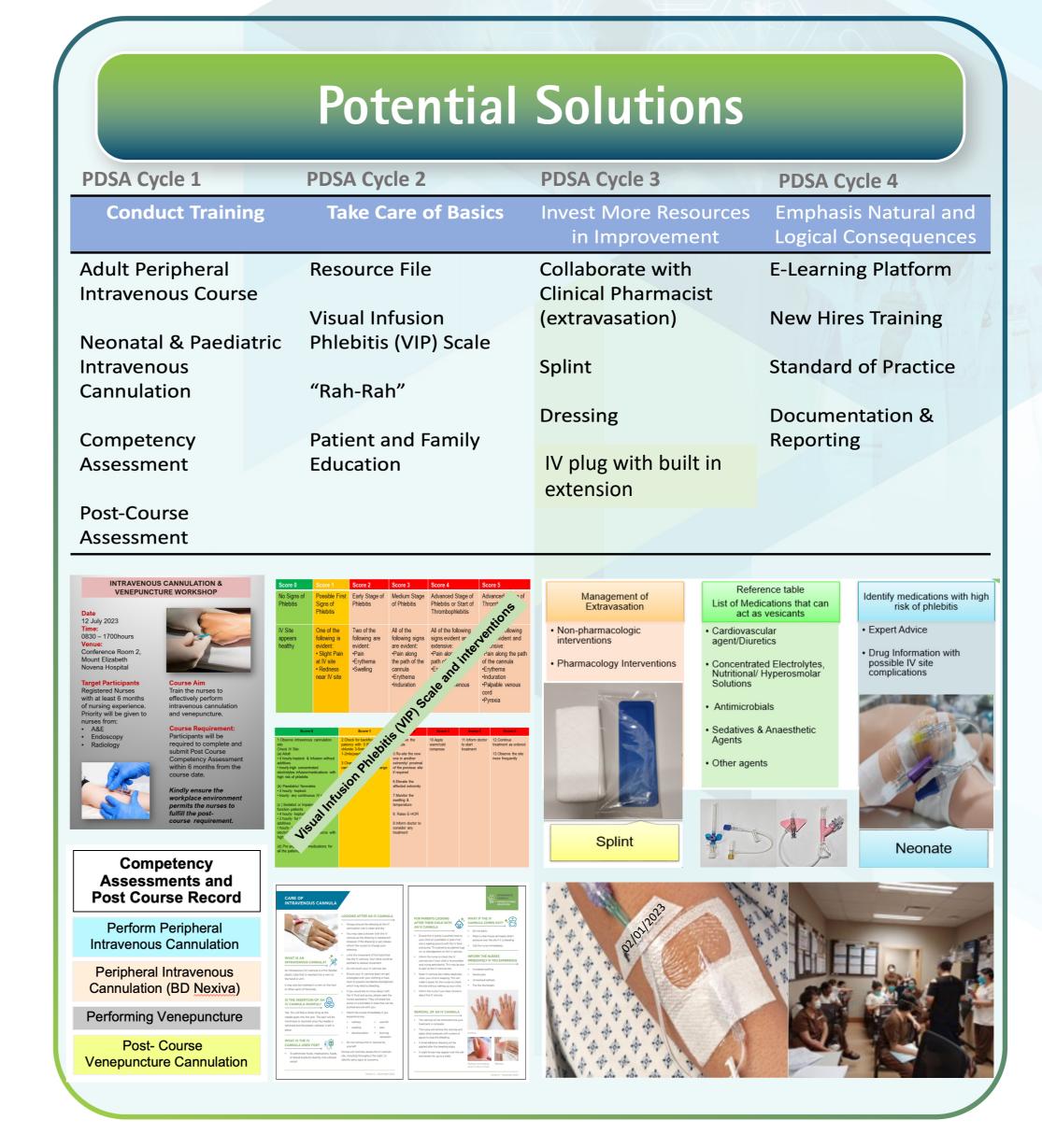
To reduce the incidence of phlebitis, from rate of 1.3 to 0.9 (01 July 2020 to 31 December 2020), and further reduction to 0.4 per 100 peripheral intravenous lines inserted (01 January 2021 to 31 July 2021).

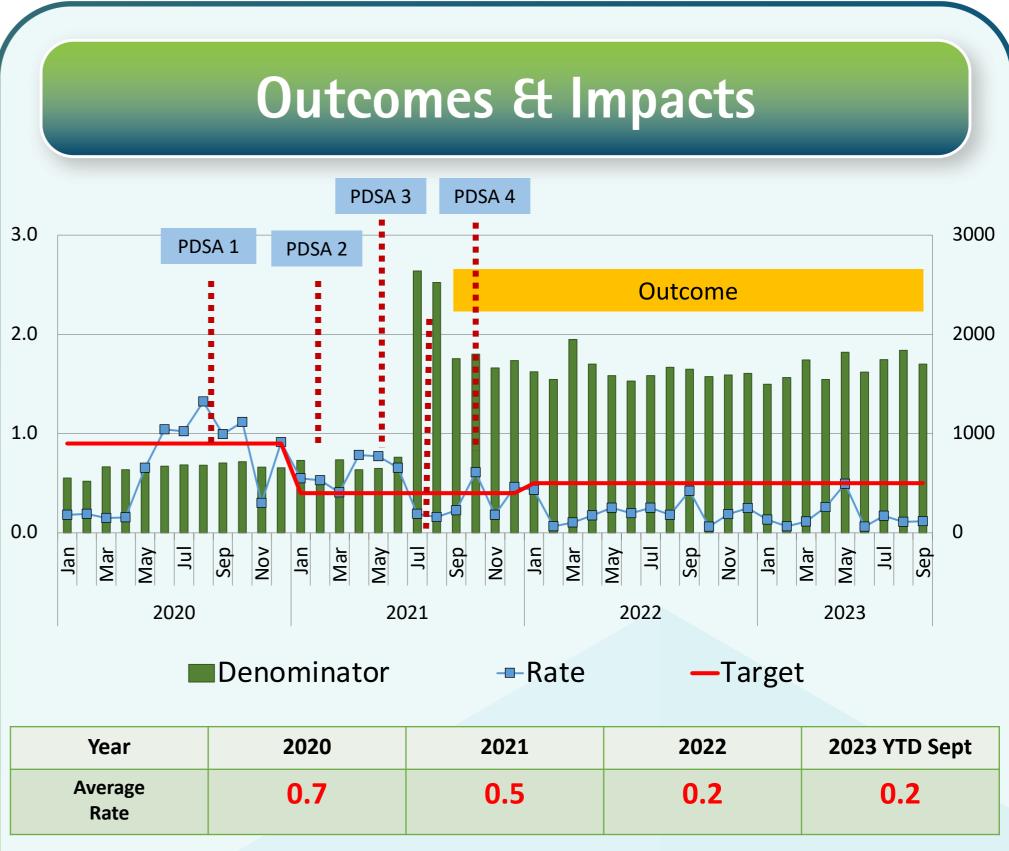
#### **Lessons Learnt**

The identified challenges within the work environment were successfully overcome by embracing the 5 pragmatic methodology recommended for the prevention of phlebitis. This multifaceted strategy has played a pivotal role in our ongoing pursuit of continuous improvement and excellence.

INTRAVENOUS CANNULA?

Auditing and monitoring phlebitis rate, ensured the effectiveness and comprehensive approach to phlebitis prevention.





The incidences of phlebitis dropped by 29%, with an average rate of 0.7 in 2020 to 0.2 in 2023. In May 2023, the spike was attributed to phlebitis occurring after cannula removal. In response, post-cannula removal assessment for 48 hours was incorporated into the clinical practice.