Reducing Incidence of Medical Device-Related Pressure Injuries in the Orthopedic Operating Room

降低手術室骨科止血帶醫療器材壓傷發生率

Yu-Shiuan Shiu Pei-Ju Wang Yi-Cheng Hsieh 許育瑄

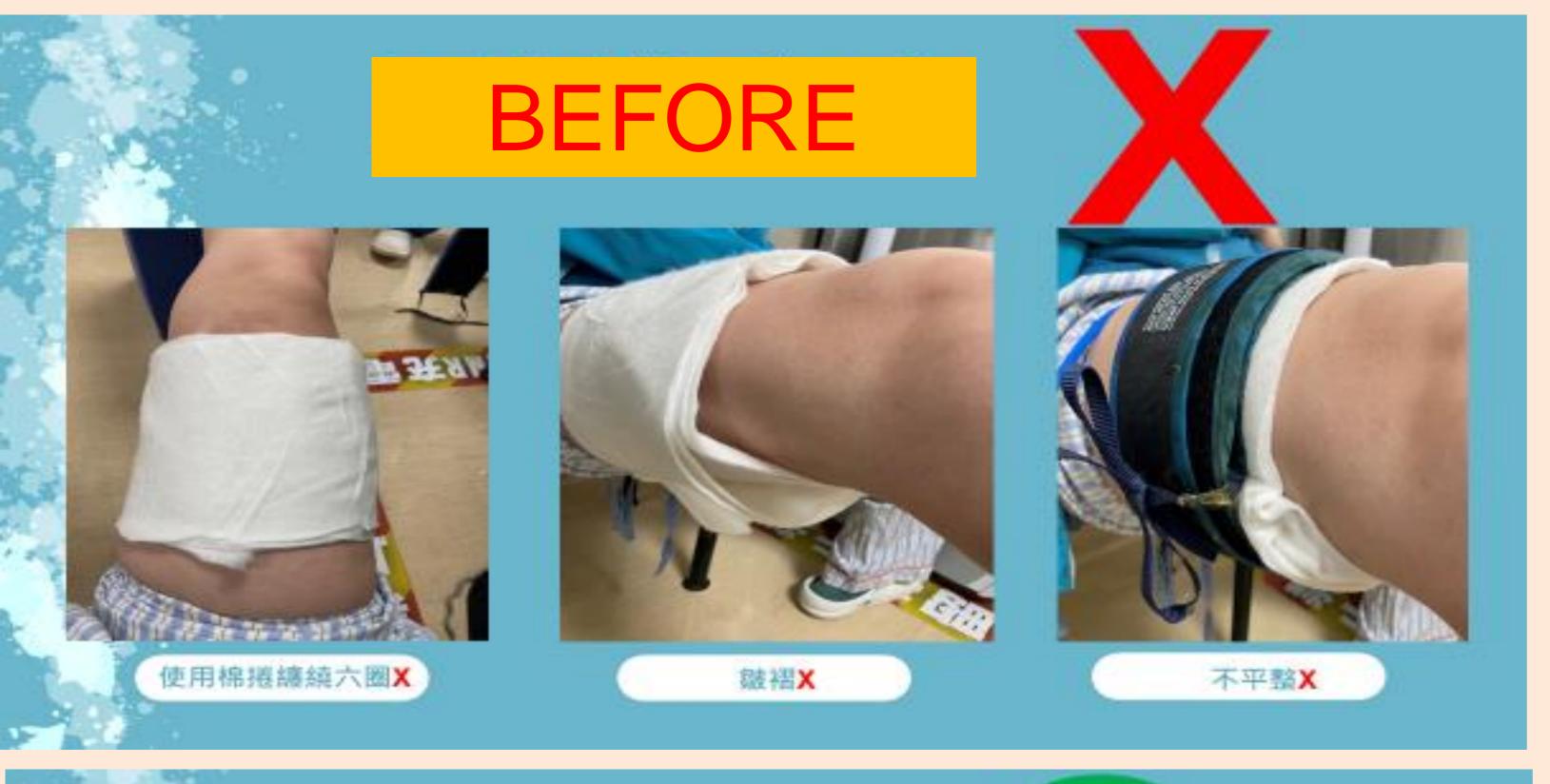
王珮如

謝易丞

Changhua Christian Hospital, TAIWAN

Background From January 2021 to June 2022, the average incidence rate of medical device-related pressure injuries (MDRPI) in orthopedic surgeries was 0.56%. The motivation for undertaking this improvement project was to mitigate the risk of patients developing pressure injuries from the use of surgical equipment.

Method To identify issues leading to pressure injuries caused by orthopedic hemostatic device medical equipment, methods included onsite audits of personnel operating procedures, testing of hemostatic machines and devices, formulation of a questionnaire to assess surgeons' knowledge of operating hemostatic devices, conducting educational training for personnel on correct operation of hemostatic devices, changing protective operating procedures, and creating a manual for protective operations. Additionally, faulty hemostatic machine and device components were replaced, and instruments were regularly inspected.





Conclusions The project team focused on literature review, changing operating procedures, and eliminating faulty products as the main strategies for improvement, with the continuous maintenance of patient safety being the primary goal of surgical quality improvement.

Before improvement, the average incidence rate from January 2021 to June 2022 was 0.56%, which decreased to 0% from May to December 2023 after improvement measures were implemented





章化基督教醫院