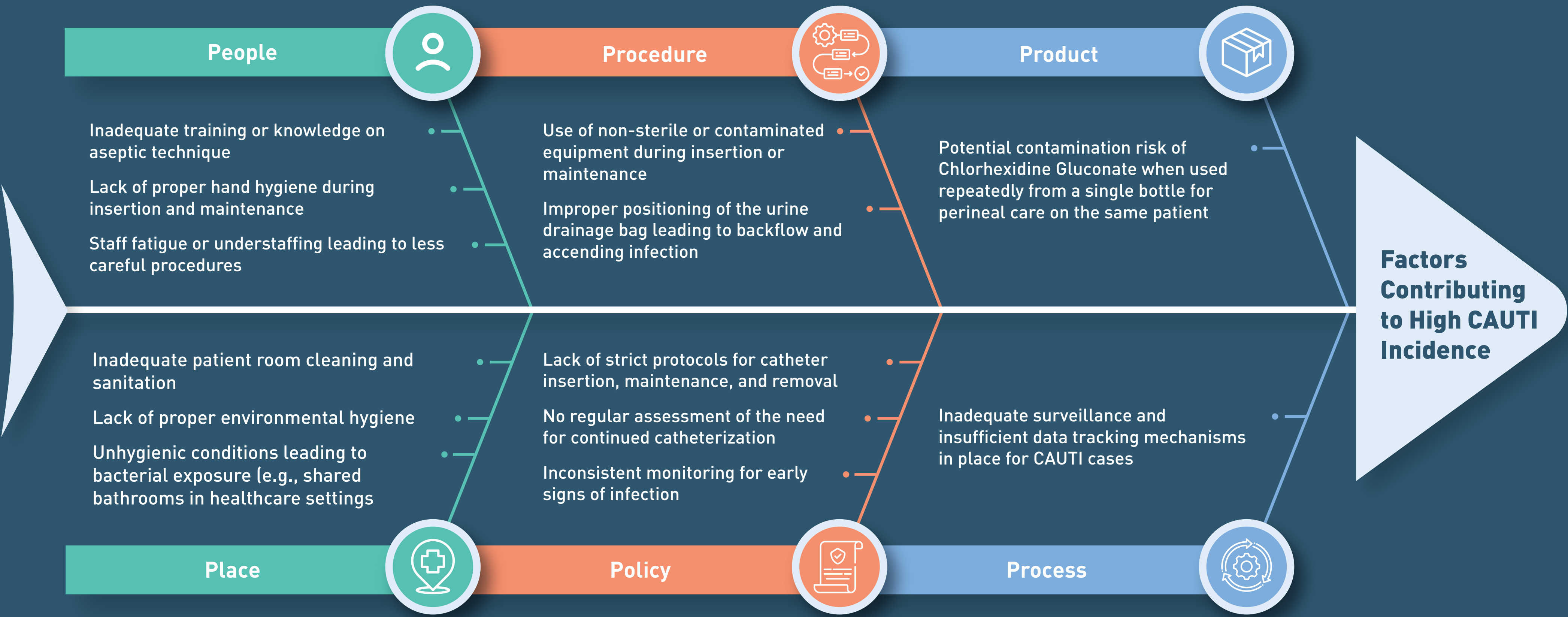


IMPROVING PATIENT SAFETY: REDUCING CATHETER-ASSOCIATED URINARY TRACT INFECTION THROUGH EVIDENCE-BASED INTERVENTIONS IN A TERTIARY HOSPITAL SETTING

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Objectives

This study aimed at reducing the incidence of Catheter-Associated Urinary Tract Infection (CAUTI) in Sunway Medical Centre through standardized interventions and best practices in catheter care.

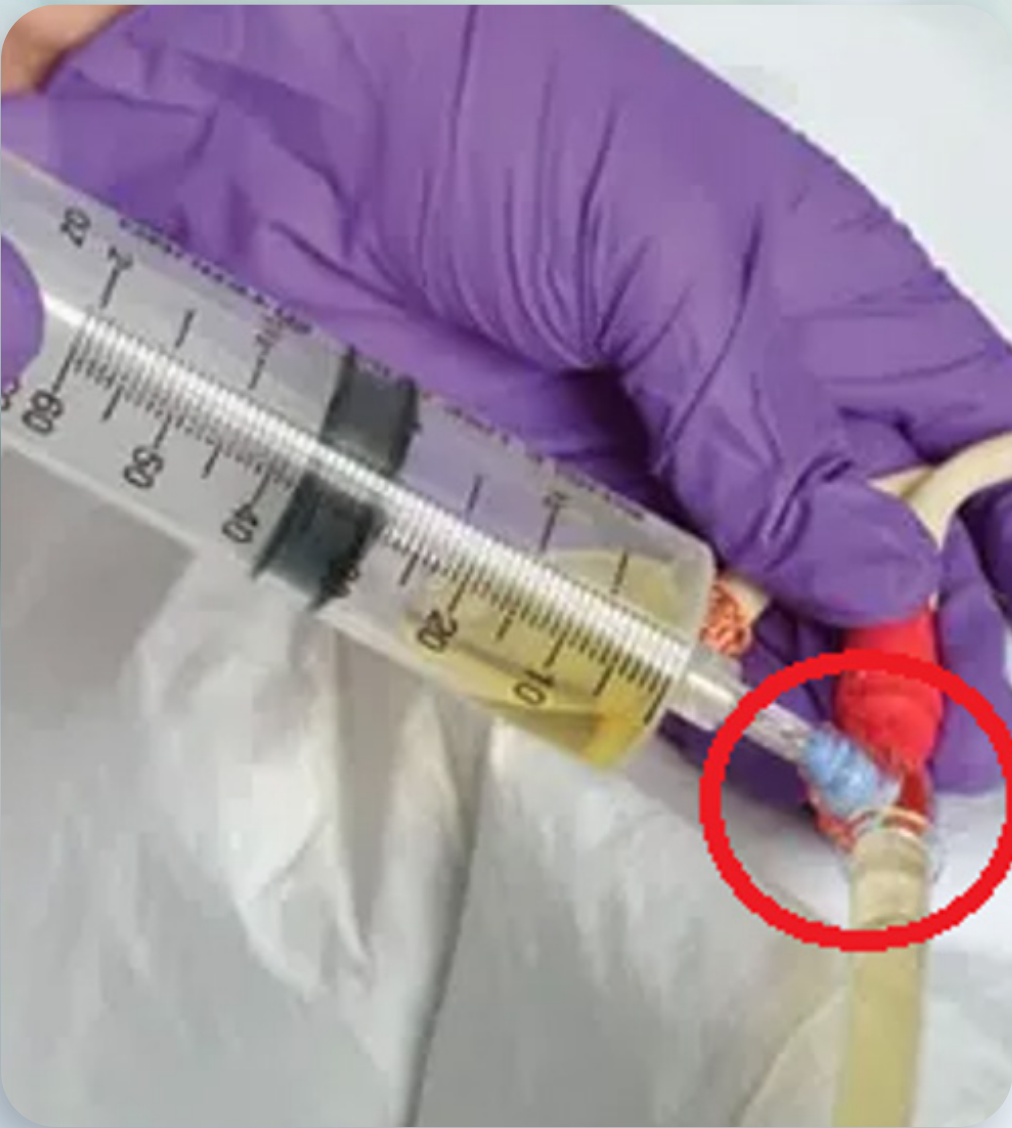


Method

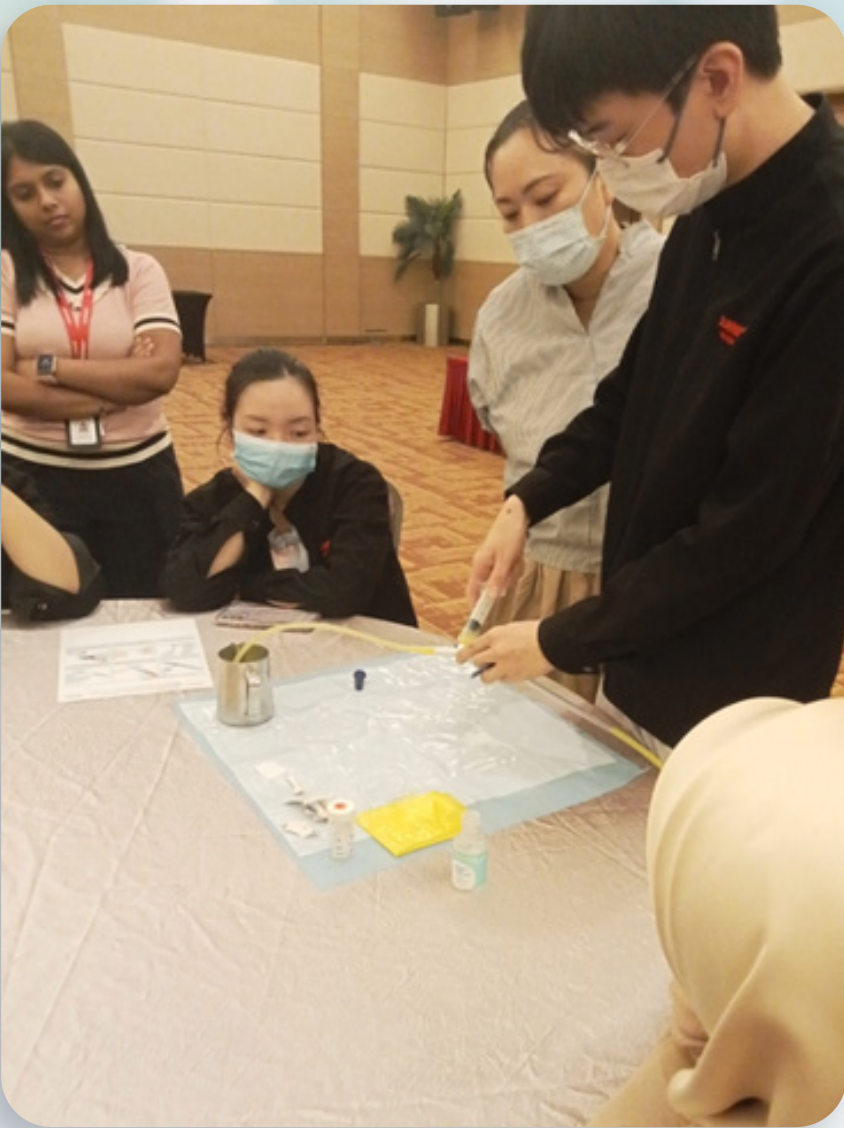
In February 2024, a multidisciplinary team consisting of Infection Control, Quality and Nursing launched a hospital-wide quality improvement initiative in response to elevate CAUTI rates observed in 2023. Interventions included the standardized implementation of urine bags with sampling ports and the adoption of a CAUTI care bundle. The care bundle comprised of aseptic catheter insertion, prompt removal, maintenance of a closed and unobstructed drainage system, proper emptying technique, secure catheter fixation, and consistent meatal care. Staff education, routine audits, and compliance monitoring were integral to the initiative.

Results

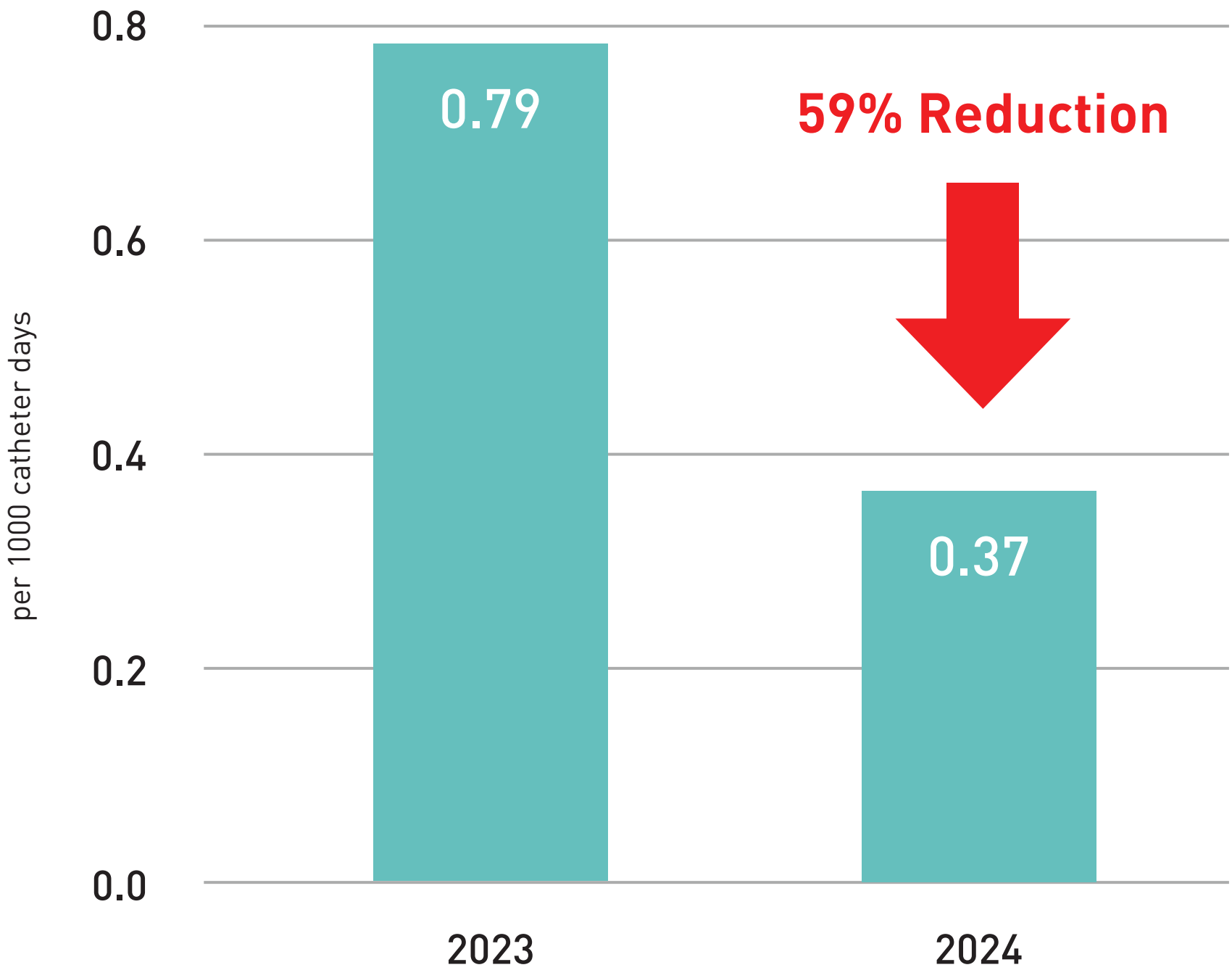
Following implementation, the incidence of CAUTI showed a significant reduction. By the end of 2024, CAUTI rates had decreased by 59% compared to the previous year, reflecting the effectiveness of the intervention strategies.



Urine Collection Pot



Training for Urine Culture Collection



Conclusion

The targeted quality improvement initiative, driven a multidisciplinary approach and evidence-based practices, successfully reduced CAUTI incidence in our centre. This project underscores the importance of timely response to infection trends and continuous staff engagement in sustaining improved outcomes. The subsequent plan is to continue monitoring compliance with the bundle.