

Preventing urinary catheter-associated infections

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In February 2015 the Emergency Care Clinical Network began its seventh round of nine-month evidence-based improvement projects in emergency departments. The aim of these projects is to use evidence-based care to reduce unwarranted variation in clinical practice and improve consistency of patient care within emergency departments. University Hospital Geelong focused on preventing urinary catheter-associated infections.

Why this project was important to our emergency department

- Catheter-associated urinary tract infections (CAUTI) can have serious morbidity and mortality implications for patients.
- Evidence indicates that using a suite of simple measures can reduce the incidence of CAUTI.
- There was no clear criteria for indwelling catheter (IDC) insertion at our hospital.
- It was difficult to always maintain asepsis on IDC insertion.
- There was inadequate documentation of IDC insertion.
- Patient discharge planning was inconsistent.

What we did

- Consulted with a wide range staff outside the department.
- Developed and implemented a checklist to standardise practice including indications for IDC insertion, verbal consent, catheter selection, aseptic insertion technique, risk and documentation requirements.
- Improved the consistency of information and education to patients discharged with an IDC.
- Educated staff in practice change.

Our results

- The proportion of patients with an appropriate indication for urinary catheter insertion **increased from 55% to 100%**.
- The proportion of patients receiving a urinary catheter insertion that had aseptic technique documented **increased from 0% to 25%**.
- If discharged with a catheter in situ, the proportion of patients who received documented education regarding urinary catheter care and a fact sheet **decreased from 100% to 60%** however there were only a small number of cases reviewed in the post-data.

Impact on patients, staff and the health system

- Patient care is now evidence-based.
- Unnecessary urinary catheter insertions have reduced, lowering the risk of CAUTI.
- Patients are better informed about IDC management at home.
- Staff knowledge and understanding regarding indications, risks, documentation and discharge planning requirements for patients with an IDC has increased.
- The standardised care process is supported by an easy-to-use checklist.

What we learnt about improving quality of care

- Staff passion and recognition that outdated practices can cause harm are effective motivators for improving care.
- Identifying key staff who can assist in advancing the project's aims is very useful.
- High-level support makes practice change easier.
- Sharing learnings with inpatient units is difficult.

