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# The ReDUCe Study

# Reducing the Duration of Urinary Catheters



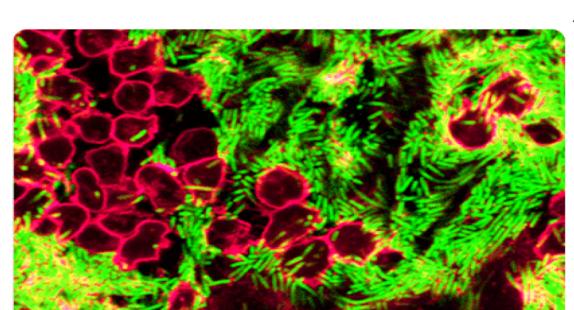
Patient engagement and communication behaviours around prompt urinary catheter removal: a prospective theory-based correlational study

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#### **CLINICAL CONTEXT**

- > 2 million people require a urinary catheter annually during their hospital stay in the UK.
- > 300,000 develops catheter associated urinary tract infections (CAUTI).
- > Cost the UK National Health Service around £165 million annually.
- > CAUTI accounts for 20% of total healthcare acquired infections in the UK hospitals.
- Presence of a catheter results in bacterial bladder colonisation at a rate of 5% per day.



# PATIENT BEHAVIOUR

Target: 'HCPs involved in urinary catheter care and removal process'

**Action:** 'asking HCP daily if the catheter is still required

**Context:** `when admitted to hospital'

**Time:** 'within 24 hours of catheter insertion then daily until the removal'

Actors: 'Hospitalised patients with short-term urinary catheter'



### BEHAVIOURAL CONTEXT

- > Delayed catheter removal is likely to be due to both patient and healthcare professionals (HCPs) behaviour related factors.
- Identification of these factors using theory-based approach may help change patterns of care to reduce unnecessary prolonged catheterisation.

#### AIMS

- > To identify predictors of patient related behaviours around catheter duration.
- To inform the development of theory-based, behaviour change intervention to reduce catheter duration.

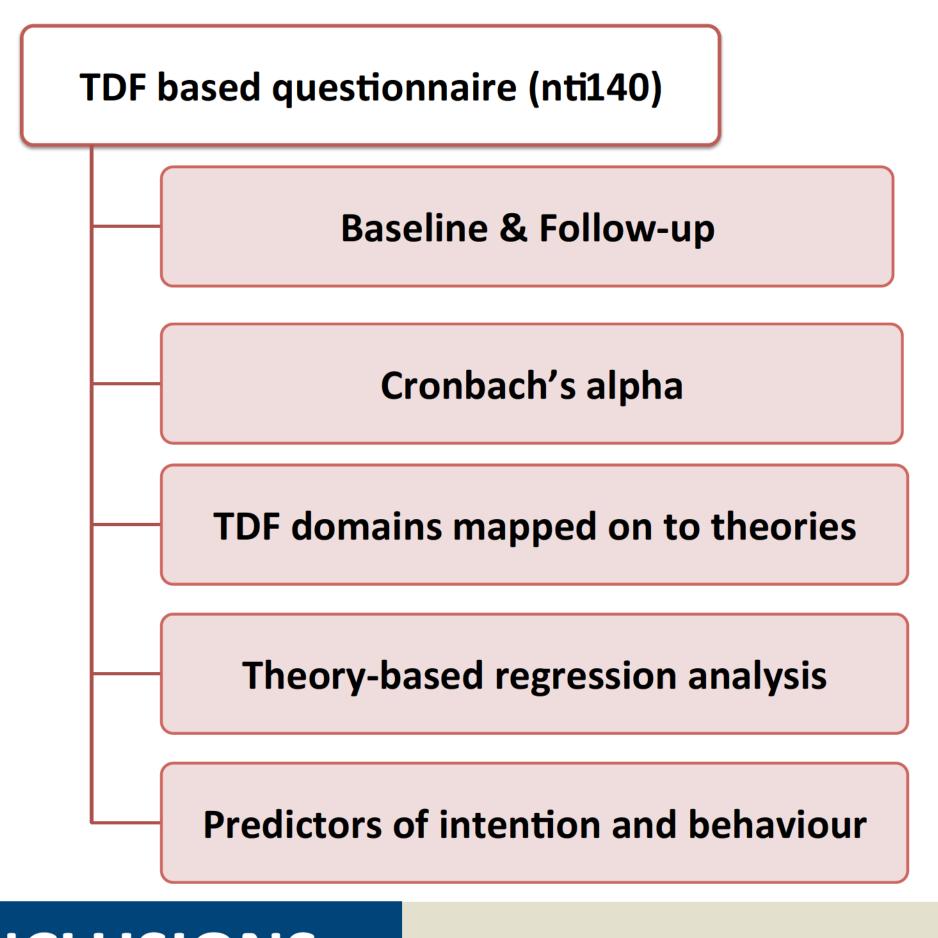
#### **METHODS & RECRUITMENT**

- Prospective TDF based questionnaire study (phase 2)
- > Informed by preceding TDF-based interview study (phase 1)
- Correlational design (baseline & follow-up)
- ➤ Hospitalised patients age ≥16
- With a planned short-term urinary catheter (up to 14 days)
- From medical and surgical wards

#### **ANALYSIS**

INTENTION = Self-efficacy + risk perception + outcome expectation + social support

BEHAVIOUR = Self-efficacy + risk perception + outcome expectation + intention (SCT) + social support + habit



## **RESULTS**

> 95% response rate to follow-up

INTENTION MODEL: (MEANti4.21, SDti2.38,  $R^2_{adi}$  ti 0.23)

- > Self-efficacy (MEAN=3.77, SD=1.42)
- > Outcome expectations (MEAN=4.44, SD=1.45)
- > Social support (MEAN=3.91, SD=2.01)

<u>SCT constructs</u> predicted <u>medium</u> amount of variance to patient's INTENTION

BEHAVIOUR MODEL: (MEANti1.01, SDti1.43, R<sub>adi</sub> ti 0.03)

 $\rightarrow$  Habit (MEAN=4.09, SD=1.93)

Habit predicted small amount of variance to patients' BEHAVIOUR

#### CONCLUSIONS

- > First study to explore patient related barriers and enablers to urinary catheter care and its duration using a systematic theory-based approach.
- > Findings show that patients had the intention to engage with HCPs to advocate timely catheter removal but most patients are not yet engaging in this behaviour.
- > Future intervention targeting self-efficacy and social support could encourage patients to prompt HCPs for early catheter removal leading to fewer CAUTIs.







