

# An Alternative to the Indwelling Foley Catheter in Male and Female Patients

## Significance/Background

- Catheter-Associated Urinary Tract Infections (CAUTIs) are the most common type of healthcare-associated infections

Longer hospital stays  
Decrease quality of life  
Mortality  
Increased hospital costs

- Decreasing number of indwelling catheters placed for “convenience” in patients can decrease CAUTI rates

- The literature shows a lack of effective urine collection devices for females; default options are generally diapers



Discomfort  
Moisture-associated skin injuries  
Frequent bed pad changes

- Although many external collection devices have been developed for women throughout the last few years, it has been a challenge to find a device that effectively contains urine while avoiding damage to perineal skin

## Purpose

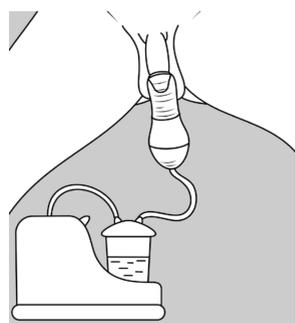
Evaluate the TrueClr External Catheter as an alternative to the indwelling catheter in male and female patients

## Intervention

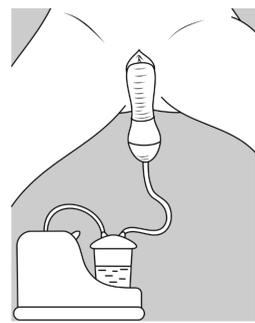
TrueClr External Catheter was piloted in male and female patients as an alternative to the indwelling catheter

### Patient population:

41 patients (21 male/20 female) who were between the ages of 20-82 years old.



Male



Female

### Contraindicated/not recommended for patients with:

Complete blockage of urethra (bph 3 or 4), completely severed spine, altered mental status, pre-existing skin breakdown on perineum, or bowel incontinence (unless a fecal collection device is used)

## Methods

- A quality improvement project examining TrueClr was piloted on 41 patients over one month
- Participants received education on criteria and proper usage before the launch
- Cost-Benefit analysis was completed to identify potential cost-savings

## Cost-Benefit Analysis

| Costs for a single patient use                            | Cost of not using TrueClr      | Cost of using TrueClr |
|---|--------------------------------|-----------------------|
| Average Total Cost Per CAUTI                              | \$13,793                       |                       |
| Cost of indwelling catheter kit                           | \$ 13.64                       |                       |
| Cost of incontinence bed pad \$0.73 (x 6 per day/patient) | \$ 4.38                        |                       |
| Cost of TrueClr per patient after reimbursement           |                                | \$20.00               |
| Suction canister (x 1 per day/patient)                    |                                | \$ 1.53               |
| <b>Total Cost to Organization</b>                         | <b>\$13,811.02</b>             | <b>\$ 21.53</b>       |
| <b>Potential Cost Savings</b>                             | <b>\$13,789.49 per patient</b> |                       |

## Data Collection and Analysis

- Surveys were given to patients, nurses and patient care technicians (PCT) to evaluate comfort, ease of use, skin integrity and overall satisfaction

- The TrueClr was piloted with 41 patients

## Findings/Outcomes

### 3 Foley Catheters Avoided in 1 Month

#### Patient Outcomes

100% eligible patients were satisfied

86% felt the device was comfortable

100% agreed TrueClr is intuitive to use

Works well for urine collection

#### Nurse/PCT Feedback (N= 10)

No skin injuries/breakdown related to device

100% felt device was easy to use

Output was able to be tracked on all patients

100% would use again for a patient

## What nursing staff and patients had to say...



## Discussion

- TrueClr provides an effective way to non-invasively collect and measure urine in male and female patients with out using diapers or internal catheters
- In one month, **\$13,789.49** was potentially saved per patient by avoiding indwelling catheter placements and CAUTIs

3 Foley catheters avoided



**Total potential cost savings in 1 month**  
**\$ 41,368.47**

- Annually savings could exceed \$165,000
- Findings show an increase in comfort, effective urine collection, absence of skin breakdown and overall satisfaction with product during one month pilot
- External catheters such as TrueClr should be considered for males and females instead of indwelling catheters

## Implications

Accurate urine collection. increased patient quality of life and increased patient satisfaction and TrueClr is able to be accomplish this without increased risk for CAUTIs

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