CENTRE FOR HEALTHCARE INNOVATION

CHI Learning & Development (CHILD) System

Project Title

Urinary Tract Infection Prevention Project in Kwong Wai Shiu Hospital

Project Lead and Members

Champions: SN Jenilyn Deogracias, SN Gerald Villanueva, SSN Jiang Qing Ling, SN

Angeline Pilar Sison Calaguas

Supervisors: NM Ho Wee Ling.

Sponsor: DON Jessy Chang

Organisation(s) Involved

Kwong Wai Shiu Hospital

Healthcare Family Group(s) Involved in this Project

Medical, Nursing

Applicable Specialty or Discipline

Infectious Disease, Urology

Project Period

Start date: Jul 2019

Completed date: Sep 2022

Aim(s)

To reduce the rate of UTI in KWSH by 50% from an average of 12 cases per month to 6 cases per month by September 2022.

Background

See poster appended/ below

Methods

See poster appended/ below





Results

See poster appended/below

Lessons Learnt

See poster appended/below

Conclusion

See poster appended/ below

Additional Information

This project was featured at the Central Health Action & Learning Kampung (CHALK) Poster Showcase 2022.

Project Category

Care & Process Redesign

Value Based Care, Safe Care, Adherence Rate, Quality Improvement, Clinical Practice Improvement, Risk Management, Adverse Outcome Reduction

Training & Education

Assessment, Workplace Based Assessment

Keywords

Staff Awareness, Competency, Prevention, Guides, Staff Satisfaction

Name and Email of Project Contact Person(s)

Name: TTSH Network Development (Partnerships)

Email: partnerships@ttsh.com.sg

Urinary Tract Infection Prevention Project in Kwong Wai Shiu Hospital

Team Members

SN Jenilyn Deogracias | SN Gerald Villanueva | SSN Jiang Qing Ling | SN Angeline Pilar Sison Calaguas

Supervisor

NM Ho Wee Ling

Sponsor

DON Jessy Chang



Background

There were 20 cases of UTI in KWSH in July 2019, resulting in 5 hospitalisations.

Urinary tract infections (UTI) are one of the most common infections seen in elderly. It is an infection that affects the part of the urinary system that includes our kidneys, ureters, bladder and urethra. Most of the infections involve the lower urinary tract - the bladder and the urethra. Women are at greater risk of developing UTI than the men.

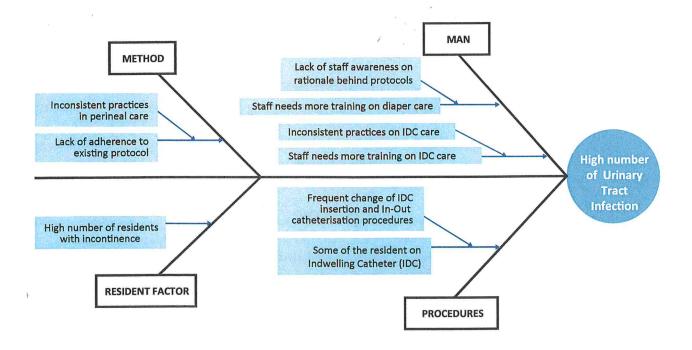
UTI Project Prevention was then started on July 2019 and Ward 5S was the chosen pilot ward due to high number of UTI cases compared to other 13 wards. Upon the successful pilot run of the project it was then later on spread to Ward 8 & 9 and at the last quarter of 2021 it was spread to Chronic Sick wards which consist of 95% of bed bound patient who are highly at risk of acquiring UTI. Upon the successful completion of the 1st and 2nd batch of staff training and competency in CSW, UTI Team Champion SN Jenilyn & SN Angelica managed to train 25 new members of UTI team.

Project Goals

To reduce the rate of UTI in KWSH by 50% from an average of 12 cases per month to 6 cases per month by September 2022.

ANALYSIS

Urinary Tract Infection Prevention



The project analyses the root causes by using Fishbone (Ishikawa Diagram) as the project tool.

Problem

Based on the Root Cause Analysis, the team identified the key root cause of UTI in KWSH is a lack of staff awareness.

- 1. High number of residents with incontinence issues.
- Lack of staff awareness / knowledge on UTI.
- 3. Inconsistent practices with regards to Diaper Care and IDC Care.

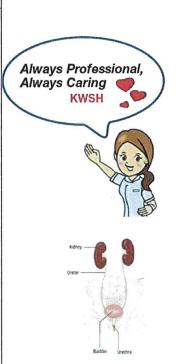
Solutions and Implementation Plan

We developed a Diaper Care bundle and an IDC Care bundle to help guide staff in managing residents with incontinence as well as diaper and IDC Care.

Diaper Care Bundle Indication for Diaper Check bowel movement when change diaper Monitor for any abnormalities in bowel movement. Incontinence-Urinary, Bowel **Physical Immobility** constipation, diarrhea.(refer to Bristol Stool Chart) Cognitive Impairment Assess skin condition: Is resident: Communicative Broken skin Non-communicative Wound Rashes **Ambulant** Non-ambulant **Intact Bladder Sensation** 10 Perform perineal care: Female- wipe perineum clean from front to back Male- If uncircumcised, retract foreskin, clean around the penis glands, and reposition foreskin after cleaning Perform hand hygiene, Don clean gloves Monitor for signs and symptoms of Urinary Tract Infection: 11 Dysuria (pain on urination) Haematuria (blood in urine) Bladder distention **Urinary frequency** Nausea/vomiting Increase/decrease in output Draw out 4 or more pieces of wet wipes with Document and escalate if there are any presence of the above 12 signs and symptoms of UTI and constipation clean gloves Possible to consider weaning off diapers and conduct potting Check diaper 4 hourly, change as necessary 13 Observe Urine characteristics:

S/N	IDC Care Bundles
1	Has resident been on IDC for >2 weeks? If yes, review indication for long-term IDC:
	Chronic urinary incontinence and retention
	Neurogenic bladder
	Chronic retention of urine from BPH/BOO
	Failed TOC multiple times
	Not a candidate for IMC
2	Flag out to doctor for permission to TOC If no indication for long-term IDC.
3	Ensure that the proper size and material of catheter and balloon is used
4	Adequate fluid intake of 1.5L/day if not contraindicated
5	Ensure there is urine output every shift. Escalate if diminished urine output is noted.
6	Properly secure IDC to prevent movement and urethral traction. Secure tubing on abdomen on alternate site (left, center, right).
7	Always keep the urine bag below the level of the bladder. Do not rest the bag on the floor
8	Check urine bag system and ensure no obstruction/ kinks.
9	Perform hand hygiene, before and after Emptying urine bag Changing urine bag Collection of urine specimen
10	Use alcohol swab to clean connector before disconnecting tubing from catheter
11	Empty the collecting bag regularly using a separate, clean collecting container for each patient
12	Maintain closed drainage system
13	Change urine bag every 2 weekly
14	Change urine catheter according to manufacture guidelines e.g. 2 weeks, 4 weeks, 2 months
15	If a urine specimen is ordered, take a clean catch (midstream urine)
16	Monitor for the following signs / symptoms and escalate accordingly
	Hematuria (blood in urine) Significant increase / decrease in urine output
Wind State	Cloudy/ sediments in the urine
17	Record amount, colour and type of urine on Fluid Balance Chart & inform doctor of any abnormalities.

· Colour, odour, amount



Sample of STAFF TRAINING PROGRAM

	Date/ Time	Topic	Speaker	Status	Participants						
1	4 January 2022	Introduction on UTI Project	SN Reden	Completed	Total N	o of staff	from CSW F	6 & F7 :1:			
		Urinary Tract Infection in Elderly Overview			SN	EN	PCA	HCA			
		Risk factors and Pathophysiology			2	1	8	0			
2	6 January 2022	Urinary Tract Infection: Signs and	SN Reden	Completed	Total No of staff from CSW F6 & F7 :11						
		 symptoms Early detection and Escalation 			SN	EN	PCA	HCA			
					2	2	6	1			
3	11 January 2022	Fluid intake, urine output Bladder Diary	SN Reden	Completed	Total No of staff from CSW F6 & F7 :10						
					SN	EN	PGA	HCA			
					2	1	7	0			
4	13 January 2022	Bowel habits and constipation	SN Jenilyn	Completed	Total No of staff from CSW F6 & F7 :11						
		Roughage/Fiber intake	1 25 1		SN	EN	PCA	HCA			
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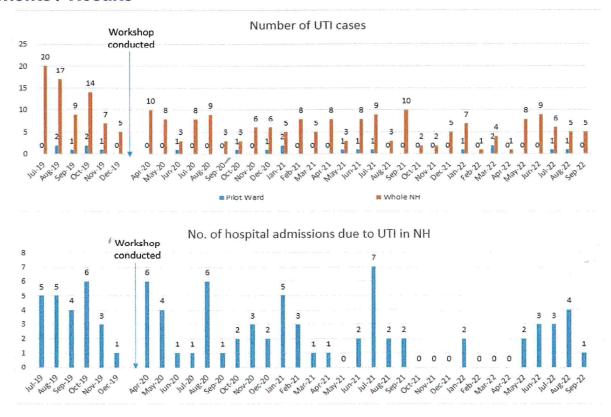
Sample of COMPETENCY CHECKLIST

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Name / Case Number																		
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We developed a structured staff training programme that covers topics such as diaper care bundle, care of urinary catheter. We also created competency tests to ensure that the staff are able to demonstrate what was covered during the training.

August June, Apr 2020: 2020: July 2022, September Jan 2022 August Diaper Train-the Developed **UTI** Diaper 2021: - 1st Feb 2021: Care trainer Jan 2020: content, /IDC care 2022: bundles **UTI** Diaper **UTI** Diaper program: Team selected bundles and IDC /IDC care CSW F6 & /IDC care formed 25 active Trial of care rolled out in care bundle bundles bundles F7 Staff members bundle in pilot ward 5S rolled out in training rolled out in rolled out in in BOL and L5S ward. 14 wards completed. **CSW** ward Collect data ward 8 ward 9 Completed & feedback August -September December Feb 2022: 2022: May 2020: June / July August 2021 2021: 2020: Rolled out Refresh to Sep 2021: Oct 2022: Seek Select Mar 2020: training and: Diaper/ IDC approval of Staff Champion End of Staff training Workshop Competency care bundle content training in CSW Project completed test for all in CSW F6 spread to completed In Ward 9 new staff & F7 CSW at BOL and CSW

Benefits / Results



Positive Result / Outcome

- The project was started in ward 5S which was selected as the pilot ward. It was successful in reducing the number of UTI cases from an average of 12 (Jul 2019 – Dec 2019) to average of 5 cases (Apr 2022 – Sep 2022), which exceeds our project goal.
- As of 23 September 2022, 90% of staff have completed training on UTI and passed their competency tests.
- Based on a staff feedback survey, 91% of KWSH staff felt that CQI has helped improve the quality of care in our nursing home. Residents received better quality care in the wards.
- 51.3% of the ward nurses reported an improved happiness being involved in this project.

Survey Result:

- UTI team champions and active members have been appreciative of this project, with a staff survey showing that 100% of staff felt that the care bundles have given them a deeper knowledge on how to prevent UTI.
- The IDC care bundle and Diaper care bundle are a precise tool that will help reduce the prevalence of UTI in health care setting.
- The IDC care bundle and the Diaper care bundle procedures are easy to follow.

Next Steps

Future Plan:

- UTI committee will continue to meet on a regular basis and continue to review current
 UTI prevention initiatives and analyse trends in UTI.
- Work with IPC committee on infection prevention and control initiatives that also support UTI prevention e.g. hand hygiene training and audits.
- Plan to review current IDC protocols.
- Plan to spread to PTPNH.