



Strategic Priority: **SP3- Organizational Sustainability**

Project Name

Optimize Isolation Precautions Awareness among Caregivers of Hospitalized Children

Site

Riyadh

Department

Department of Pediatrics

Project Status

Completed

Project Start Date

01-06-2018

Project End Date

12-31-2018

Problem: Why the project was needed?

Health care-associated infections (HAIs) are major causes of morbidity, mortality, and expanding cost in healthcare sector that threatened patient safety and quality of care.

Transmission-Based Precautions (TBPs) are commonly used for patients with a suspected or documented infection with important transmissible pathogens or highly invasive organisms. This includes multidrug-resistant organisms (MDROs): e.g. Vancomycin Resistance Enterococcus, "VRE", and Methicillin Resistance Staphylococcus Aureus "MRSA." There are three categories of TBPs: Contact Precautions, Droplet Precautions, and Airborne Precautions.

A face-to-face questionnaire was developed and conducted to assess caregiver awareness and knowledge regarding TBPs for their children who were placed in Pediatric wards and PICU. Out of 30 patients questioned, 74% complained of not being informed about hand hygiene, and their children's TBPs.

A caregiver's poor knowledge about their child's TBP isolation may compromise their role in identifying infection risk, preventing cross-infections, complying with isolation signs hung visibly on the child's room door. The consequences include the increased risk in the spread of highly invasive organisms, in the hospital.

Therefore, this project was selected to increase caregiver's knowledge and awareness about their hospitalized children TBP, and to enhance their compliance.

Benefits/Impact: What is the improvement outcome?
(check all that apply)

- Contained or reduced costs
- Improved productivity
- Improved work process
- Improved cycle time
- Increased customer satisfaction
- Other (please explain)

Reduce risk in the spread of highly invasive pathogens, and MDRO infections in a hospital

Aims: What will the project achieve?

Decrease gaps in knowledge and awareness among the caregivers of hospitalized children who were placed in TBPs in pediatric wards and PICU from 74% to 37%, over 6 months, from 1st July to 31 December, 2018

Quality Domain: Which of the domains of healthcare quality does this project support?

(Select only one)

Safe

Measures: Performance metrics to be evaluated

% gaps in knowledge and awareness among caregivers

Targets: Expected outcomes

50%

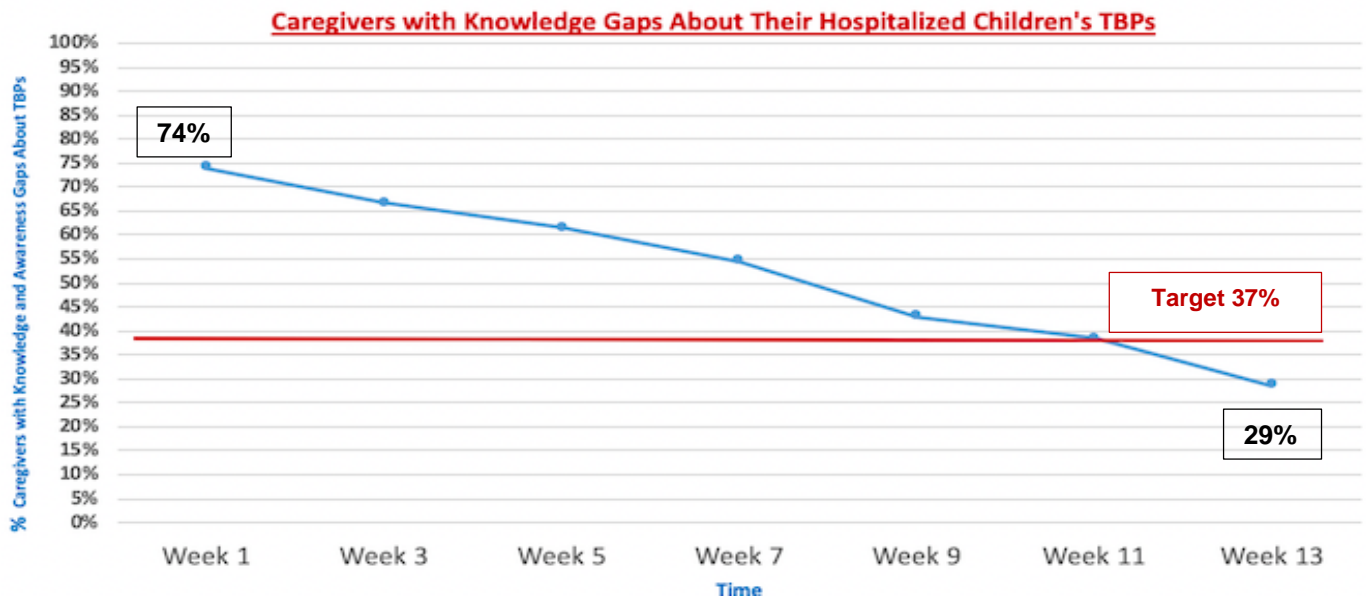
Interventions: Overview of key steps/work completed

- Develop Inter-professional simulation education session for physicians to reinforce their role in educating caregivers and their children about TBPs. This session was completed in the first week of October '18,
- Educate HCWs how to access the Infection and Prevention Control (IPC) manual 24/7, on the PMS/intranet with the assistance of Cerner staff (Process completed in December '18).
- Develop educational caregiver materials about HAIs, were reviewed by the project team, and have been distributed to the wards and PICU. (Future education samples should include feedback from frontline HCWs, and caregivers as well.)
- Use *electronic health records* (EHRs) to document the content of TBPs, and PPE education provided to patients and caregivers by nursing staff and physicians (The documentation was started in the nursing Infection control section, notes will be written about the physician involvement).
- Implement a parallel process for caregivers and children TBP education with nurses and physician's involvement (Arabic speaking residents will join the nurse to provide joint education for the caregivers about TBPs). implemented in last week of October '18.
- Introduce a mandatory infection control module has been created for HCWs annual assessment and refreshment, with a corresponding certificate of completion granted to participants (launched in the third week of December '18 on the "ilearn@kfshrc.edu.sa" online platform).
- Have a regular evaluation, and monitoring of the awareness percentage and knowledge among the caregivers of children about TBPs in designated areas were recorded, and analyzed. (Data were collected during the team rounds every 2 weeks).

Results: Insert relevant graphs and charts to illustrate improvement pre and post project

(Insert relevant graphs, data, charts, etc.)

- The run chart has demonstrated a reduction in the gaps of caregiver's knowledge and awareness about their hospitalized children TBP from 74% to 29%.



Project Lead

Name

(person accountable for project)

Dr. Sami Al-Hajjar

Team Members

Names

(persons involved in project)

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