

## PROJECT TITLE:

Implementing Strict Infection Control Measures in Prevention and Control of Clostridium Difficile in Heart Hospital

## DESCRIPTION:

Worldwide Health Care Associated Clostridium Difficile (CDI) remains to be one of the problems in health care setting. If not identified and controlled, outbreak might occur. Five cases of Health Care Associated Clostridium Difficile in Inpatient Units was identified in First Quarter of 2013 (January - March 2013), whereas only 5 cases were identified in 2012, which shows an increasing trend due to introduction of new Gene Xpert Test in Microbiology Lab. To improve this, Infection Control Team conducted investigation, strict implementation of Infection Control practices, enhanced environmental control and proper education, which lead to control of infections.

## AIM:

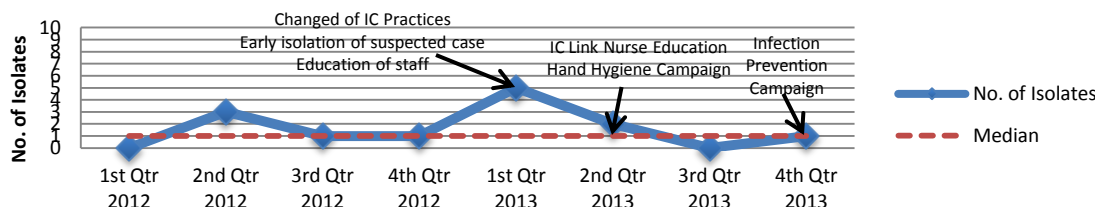
Prevention and control of transmission of Healthcare Associated Clostridium Difficile Associated Diarrhea (CDAD) to other patients and staff through early identification and isolation of any suspected/confirmed case of CDAD.

## INTERVENTIONS:

- Early identification and Contact Isolation of any patients with episodes of diarrhea as suspected/confirmed case of Clostridium difficile.
- Strict implementation of infection control practices with emphasis on strict hand washing practices and use of alcoholic hand rub was not recommended for patients with Clostridium difficile.
- Education on Clostridium difficile was conducted to increase awareness and compliance to Infection Control Policies and Procedures of all hospital staff in preventing and controlling the spread of infection.
- Contact Precautions will only be discontinued if patient has formed stools for 3 consecutive days.
- After discontinuation of isolation, patient was transferred to a clean room after bathing with chlorhexidine 4% detergent-based antiseptic solution.
- Proper cleaning and disinfection of infected room was carried out by Housekeeping staff using 1000ppm hypochlorite solution for daily cleaning and 5000ppm for terminal cleaning followed by room decontamination using hydrogen peroxide vapor machine.
- Promoting antibiotic stewardship in the hospital.
- Hand Hygiene and Infection Prevention Campaign were conducted.

## RESULTS:

Clostridium Difficile Cases in Heart Hospital, 1st Quarter 2012 - 4th Quarter 2013



## DEPARTMENT:

Quality Management – Infection Prevention and Control

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## CONCLUSION:

- A dramatic decrease from 5 cases in the 1<sup>st</sup> Quarter 2013 to two cases in 2<sup>nd</sup> Quarter (1 case each in April and June), no case was reported in 3<sup>rd</sup> Quarter and one case in the 4<sup>th</sup> Quarter (November) 2013 after strict implementation of infection control measures which resulted in decreasing rate from 4.29 in 1<sup>st</sup> Quarter to 1.4 in 4<sup>th</sup> Quarter 2013.
- No Clostridium Difficile cases from December 2013 to February 2014.

## NEXT STEP:

1. To achieve zero Clostridium Difficile Infection by the end of December 2014.
2. Implementation of IHI Best Care Always for Clostridium Difficile Infection to maintain zero tolerance infection rates till December 2014.