

Zachary A. Rubin, MD, Chair

California State Prevention Plan Subcommittee Report

Subcommittee had 7 meetings

Members:

Zachary Rubin, MD, Chair

Suzanne Anders MHI

Marsha Barden, MSN

Amy Dubois, MSN;

Elizabeth Clark, MPH, RN

Cheryl Richardson, RN

Matt Zahn, MD, MPH

HAI Program Staff:

Vicki Keller, RN, MSN, PHN, CIC

Neely Kazerouni, DrPH, MPH

Jorge Palacios

[Lynn Janssen, MS, CIC, CPHQ – initial meetings only]

Goals

- Set prevention standards for CA hospitals that can be emphasized by CDPH and used for “Data for Action” site visits.
 - Central line-associated blood stream infection (CLABSI)
 - Central line insertion practices (CLIP)
 - *Clostridium difficile* infection (CDI)
 - Catheter-associated urinary tract infection (CAUTI)
- Recommend surveillance changes to CDPH.

CLABSI prevention

- *Recommendations to CDPH:*
 - Separate Mucosal Barrier Injury-Laboratory Confirmed Bloodstream Infection (MBI-LCBI) from other CLABSI in analysis.
 - Recommend that CDPH send a letter to CDC for a model analysis that excludes MBI-LCBI from their CLABSI SIR analysis.
 - Hospitals with high CLABSI rates should participate in a prevention collaborative or develop action plans in coordination with CDPH.

CLABSI prevention

- *CLABSI Prevention Strategies:*
 - Hospitals should be following CDC's core strategies for CLABSI prevention.
 - Hospitals should implement a root cause analysis or other review process when CLABSIs occur.
 - Hospitals should adopt a central line maintenance bundle.
 - Hospitals should monitor adherence to a central line maintenance bundle on a regular basis, with emphasis on:
 - Daily review of line necessity and prompt removal of CVC.
 - Accessing the line using "scrub-the-hub" practices.
 - Care of catheter site, including dressing practices.

CLIP

- If hospitals continue to have elevated CLABSI rates after initial efforts at mitigation, they should consider utilizing CLIP forms in all hospital locations where central lines are inserted, including the OR and interventional radiology.
- Hospitals should assess compliance with completion of CLIP forms in relation to the total central lines inserted (preferably on a regular basis).
- Preferentially, an observer should complete the CLIP form instead of the inserter.
- Incorporate regular review of adherence to CLIP.
- When CLIP forms demonstrate failure to perform all CLIP elements successfully, the problem should be reviewed with inserter.
- When a CLABSI is identified, CLIP forms for that central line should be reviewed along with review of maintenance of the central line to help identify probable cause.

Clostridium difficile infection prevention

- *Core Prevention Strategies:*
 - Contact Precautions should be used for the duration of diarrhea.
 - Hand hygiene should be performed before and from going from dirty to clean tasks and after care of the patient on contact precautions.
 - Equipment and the environment should be cleaned/disinfected daily.
 - Laboratory-based alert systems should be used for immediate notification of positive test results.
 - Educate healthcare workers, housekeeping, administration, patients and families about the prevention of CDI.
 - Presumptively isolate patients with diarrhea pending confirmation of CDI diagnosis.
 - Implement an antimicrobial stewardship program.
 - Establish hand hygiene adherence monitoring and assess hand hygiene adherence regularly.

Clostridium difficile infection prevention

- *Supplemental Prevention Strategies:*
 - Consider collecting unit-based CDI rates.
 - Extend use of contact precautions beyond duration of symptoms (e.g. 48 hours or hospital stay).
 - Implement hand washing with soap and water before exiting the room of CDI patient.
 - Implement universal glove use on units with high CDI rates.
 - Use sodium hypochlorite (bleach) solutions for environmental cleaning.
 - Track the use of antibiotics associated with CDI.
 - Consider establishing a nurse driven protocol for ordering *C. difficile* testing and initiating presumptive contact isolation for patients with diarrhea.

CAUTI Prevention

- To facilitate support in making quality improvement, CDPH should encourage hospitals to confer NHSN rights for CAUTI rates to CDPH.
- Insertion and maintenance of urinary catheters should be performed consistent with guidelines published by [CDC Healthcare Infection Control Practices Advisory Committee \(HICPAC\)](#).
- Hospitals should follow HICPAC's list of appropriate indications for placement of urinary catheters.
- Rationale for the continued use of a urinary catheter should be documented every day. Urinary catheters that do not meet the criteria for necessary use should be removed.

CAUTI Prevention

- Hospitals should measure compliance with daily necessity to continue use of urinary catheter.
- In addition to CMS-required surveillance in the ICU and Rehabilitation units, hospitals can consider CAUTI surveillance in other high risk areas and populations.
- Data feedback of CAUTI rates and daily review of necessity of urinary catheters should be provided to nursing units on a regular basis.

Next Steps

- Complete plan for additional HAIs.
- Format recommendations in the CDPH plan.
- Bring complete plan to next HAI Advisory Committee for discussion & voting.