NHSN Prevention Process Measures in Outpatient Dialysis Facilities

Hand Hygiene

May 2014

The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention
Outline

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  â Hand hygiene opportunities in hemodialysis
  â Process & tools
q Reporting
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  â How to report hand hygiene data
q How to calculate a hand hygiene adherence rate
Introduction

Prevention Process Measures (PPM) is a new NHSN surveillance module for outpatient dialysis facilities:
- It presently includes one measure: hand hygiene adherence
- Additional PPMs will be added to NHSN in 2015

Participation is optional
Goals of Hand Hygiene Adherence Surveillance

- To calculate rates of hand hygiene adherence among all healthcare personnel in a facility
- To provide feedback to healthcare personnel on hand hygiene adherence
- To assess the impact of efforts to improve healthcare personnel’s hand hygiene practice over time
DATA COLLECTION
NHSN Hand Hygiene Data Collection

Dialysis Prevention Process Measures Protocol

- Required reading
- Provides surveillance instructions and definitions

Data collection definitions:

- **Total # Successful Opportunities**: Total number of observed instances during which staff hand hygiene was warranted and was successfully performed.

- **Total # Opportunities**: Total number of observed instances during which staff hand hygiene was warranted.
## Data Collection - Guide to Hand Hygiene Opportunities in Hemodialysis

<table>
<thead>
<tr>
<th>Hand hygiene opportunity</th>
<th>Specific examples</th>
</tr>
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<tbody>
<tr>
<td>1. Prior to touching a patient</td>
<td>• Prior to entering station to provide care to patient&lt;br&gt;• Prior to contact with vascular access site&lt;br&gt;• Prior to adjusting or removing cannulation needles</td>
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<td>2. Prior to aseptic procedures</td>
<td>• Prior to cannulation or accessing catheter&lt;br&gt;• Prior to performing catheter site care&lt;br&gt;• Prior to parenteral medication preparation&lt;br&gt;• Prior to administering IV medications or infusions</td>
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<td>3. After body fluid exposure risk</td>
<td>• After exposure to any blood or body fluids&lt;br&gt;• After contact with other contaminated fluids (e.g., spent dialysate&lt;br&gt;• After handling used dialyzers, blood tubing, or prime buckets&lt;br&gt;• After performing wound care or dressing changes</td>
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<td>4. After touching a patient</td>
<td>• When leaving station after performing patient care&lt;br&gt;• After removing gloves</td>
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<td>5. After touching patient surroundings</td>
<td>• After touching dialysis machine&lt;br&gt;• After touching other items within dialysis station&lt;br&gt;• After using chairside computers for charting&lt;br&gt;• When leaving station&lt;br&gt;• After removing gloves</td>
</tr>
</tbody>
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Data Collection - World Health Organization

Moments for Hand Hygiene

1. Before touching a patient
2. Before clean/aseptic procedure
3. After body fluid exposure risk
4. After touching a patient
5. After touching patient surroundings
Data Collection Process

q **Observations should be covert**
   ß To prevent data collection from influencing staff performance

q **Try to ensure that observations are as representative as possible of normal practice at the facility:**
   ß Observe different staff members on different days and shifts.
   ß Consider observing during particularly busy times (e.g., shift change), when staff may be less attentive to proper practices.

q **Focus on an area of the unit where staff interactions with patients are clearly visible**
   ß This may include observation of several staff members.
   ß In general, hand hygiene should be performed prior to and following direct contact with patients.
Many hand hygiene observation tools exist

- Any of these tools can be used to collect data for individual hand hygiene opportunities observed

Try CDC’s hemodialysis hand hygiene observations audit tool:

Optional CDC Audit Tool for Hemodialysis Hand Hygiene Observation

**Audit Tool**: Hemodialysis hand hygiene observations

(Use a “✓” for each hand hygiene opportunity observed. Under ‘opportunity successful’ leave blank if not successful)

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Hand hygiene opportunity</th>
<th>Opportunity successful</th>
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</table>

- **Monitor for staff hand hygiene opportunities**
- **For each opportunity observed, indicate whether hand hygiene adherence was successful**
- **Tally each column:**
  - Numerator = total # of successful opportunities
  - Denominator = total # of opportunities

**Notes**:
- Duration of observation period = ________ minutes
- Number of successful hand hygiene opportunities observed = ________
- Total number of patients observed during audit = ________
- Total number of hand hygiene opportunities observed during audit = ________

**See hand hygiene opportunities on next page**

[Go to CDC website](http://www.cdc.gov/dialysis/PDFs/collaborative/Hemodialysis-Hand-Hygiene-Observations.pdf)
Monthly Reporting Plan

q A monthly reporting plan must be saved before data can be reported
   Þ Hand hygiene data can be reported either in-plan or off-plan

q To report hand hygiene data in-plan, “HH” must be checked on the Monthly Reporting Plan
   Þ This indicates data are collected and reported as specified by the Dialysis Prevention Process Measures Protocol
   Þ In-plan reporting requires a minimum of 30 observations/month

q If a Monthly Reporting Plan has already been saved, it can be edited to add “HH”
How to Add a Monthly Reporting Plan

1. From the navigation bar, select “Reporting Plan,” then “Add”
2. Indicate the month and year data were collected
3. Select the outpatient dialysis clinic reporting location
When the dialysis location is selected, “DE” surveillance is checked automatically. “HH” surveillance needs to be selected manually.

4. Select the “HH” checkbox

5. Click “Save”
How to Report PPM - Hand Hygiene Data

1. From the navigation bar, select "Summary Data," then "Add"
2. Select "Prevention Process Measures" from the dropdown menu
3. Click "Continue"
4. Select the dialysis location, and month and year data were collected

5. Report the summary of all of the hand hygiene observations:
   - Total # of successful opportunities (*numerator*)
   - Total # of opportunities (*denominator*)

6. Click “Save”
How to Calculate a Hand Hygiene Adherence Rate

Hand Hygiene Adherence Rate = \frac{\text{Total # Successful Opportunities}}{\text{Total # Opportunities}} \times 100

To calculate a rate of hand hygiene adherence:

1. Divide the total number of successful opportunities by the total number of opportunities and multiply the result by 100
2. NHSN reports for dialysis hand hygiene adherence will be available in August 2014

- Provide feedback to healthcare personnel on hand hygiene adherence
- Assess the impact of efforts to improve healthcare personnel’s hand hygiene practice over time
Questions?

Contact the NHSN Helpdesk
nhsn@cdc.gov

For more information please contact Centers for Disease Control and Prevention

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