

Infection Prevention and Control in Home Care: Improving Your Program...Preventing Infections
 Mary McGoldrick, MS, RN, CRNI, Home Health Systems Inc
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Infection Prevention and Control in Home Care: Improving Your Program... Preventing Infections

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 "Nothing to Disclose"

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HOME HEALTH
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Home Care Industry Overview

- Home Infusion Therapy
- Home Health Care
- Private Duty Home Care Services
- Hospice Services
- Durable Medical Equipment Services

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Home Care and Hospice Services: Placing Patients at Risk for HAI

- Treatments and procedures performed at home:
 - Central line catheter care and maintenance
 - Indwelling urethral or suprapubic catheterization and maintenance
 - Tracheostomy tube changes, site care and suctioning
 - Ventilator care and management
 - Pleural catheter care and drainage
 - Administration of intravenous medication
 - Wound care

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Challenges in Providing Care in the Home Setting

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Infection Prevention in Home Care and Hospice


- Lack of control over caregiver:
 - Not sole provider of health care
 - Focus on teaching
 - Inconsistency in patient care practices



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Infection Prevention in Home Care and Hospice

- Lack of control over the home environment
 - Environmental contamination
 - Human body fluids and excrement
 - Pet excrement




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Infection Prevention in Home Care and Hospice


- Lack of control over the home environment
 - Lack of general cleanliness



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Infection Prevention in Home Care and Hospice

- Lack of control over the home environment
 - Lack of utilities
 - Lack of major appliances



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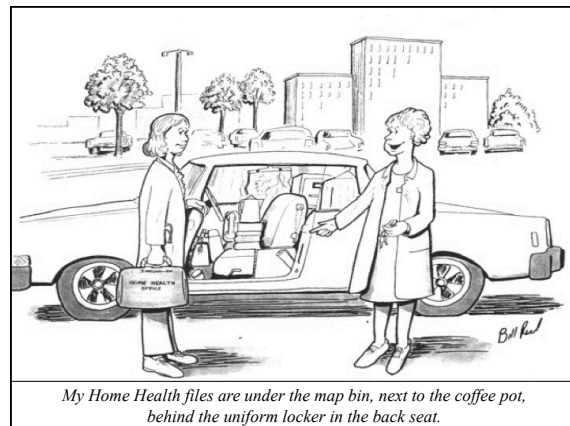
Infection Prevention in Home Care and Hospice

- Lack of control over the home environment
 - Pets:
 - Unrestrained
 - Aggressive
 - Colonized with MRSA
 - Pests

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Care, Storage and Cleaning/Disinfection of Equipment and Supplies in Home Care and Hospice

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Infection Prevention in Home Care and Hospice


- Storage of equipment and supplies used by staff in personal vehicle
 - Event-related shelf life
 - Storage conditions
 - Packaging



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Infection Prevention in Home Care and Hospice


- Storage of equipment and supplies used by staff in personal vehicle
 - Time-related shelf life
 - Expiration date



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Infection Prevention in Home Care and Hospice


- Storage of equipment and supplies used by staff in nursing bag
 - In-home placement
 - Surface barrier
 - Cleaning
 - Hand hygiene



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Infection Prevention in Home Care and Hospice


- Cleaning of equipment and supplies used by staff
 - Assessment equipment
 - Product/contact time
 - Frequency



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Infection Prevention in Home Care and Hospice

- Cleaning of equipment and supplies used by staff
 - Electronic equipment
 - Product/contact time
 - Frequency



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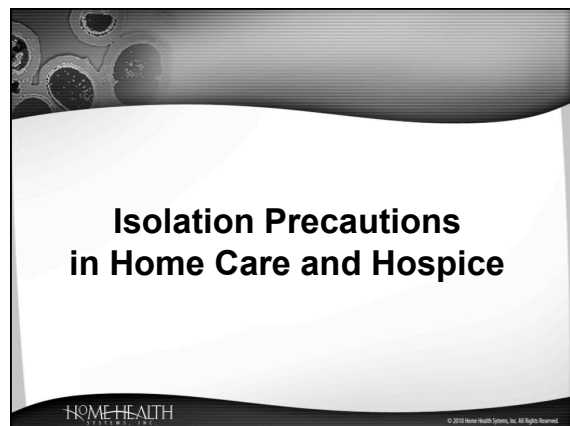
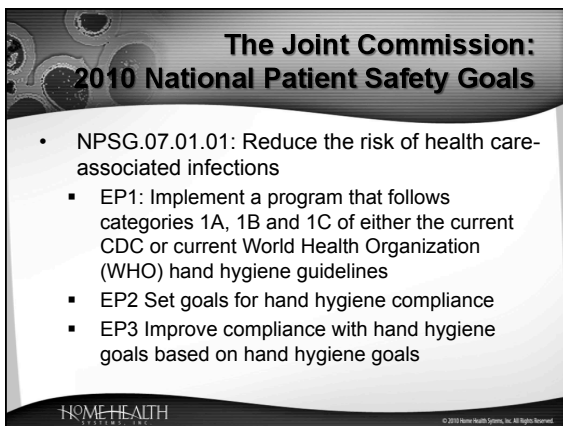
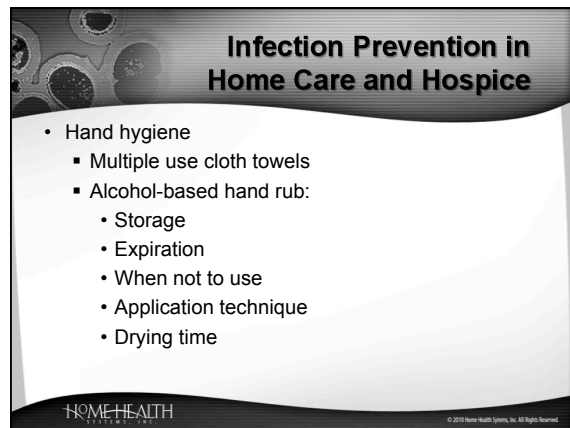
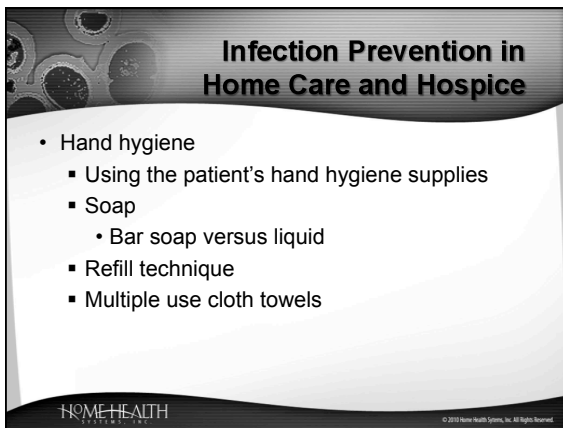
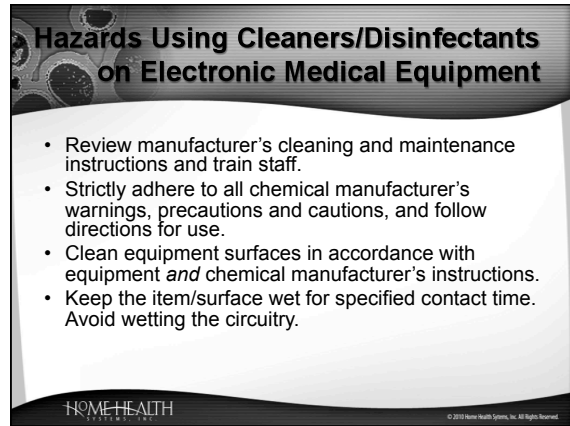
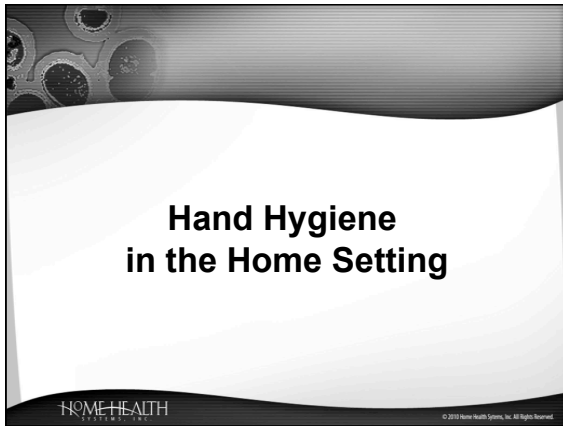
Infection Prevention in Home Care and Hospice

- Outside nurses' bags: 83.6% positive for human pathogens; 15.9% MDROs
 - Cloth nurses' bag surface material 3 times more likely to have an MDRO isolate
- Inside nurses' bag: 48.4% positive for human pathogens; 6.3% MDROs
- Patient care equipment inside nurses' bags 43.7% positive for human pathogens; 5.6% MDROs

Source: Bakunas-Kenneley, I., Madigan, E., (2009). Infection prevention and control in home healthcare: The nurse's bag. *Am J Infect Control*. 37: 687-8

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Isolation Precautions in Home Care and Hospice

CONTACT PRECAUTIONS *In addition to Standard Precautions*

GOWN
 • Put on a gown before you enter the room if you think you will have contact with the patient or the environment.
 • Remove the gown before you leave the room.

GLOVES
 • Wear gloves when entering the room if you think you will have contact with the patient or the environment.
 • Remove gloves before leaving the room.

WASH HANDS
 • Wash your hands, or sanitize your hands with an alcohol agent, before you leave the room.

TRANSPORT
 • Maintain precautions during transport.

EQUIPMENT
 • Dedicate the use of all noncritical patient care equipment to a single patient.
 • Clean and disinfect any common equipment between uses by different patients.

STOP VISITORS: report to the unit station before entering the room.

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Infection Prevention in Home Care and Hospice

- Isolation Precautions:
- Standard Precautions
- Transmission-based Precautions:
 - Airborne
 - Droplet
 - Contact

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Infection Prevention in Home Care and Hospice

- MDRO management in Home Care and Hospice
 - Standard precautions
 - When to implement contact precautions

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Infection Prevention in Home Care and Hospice

- MDRO management in Home Care and Hospice
 - Equipment management
 - Patient and family education
 - Visit schedule

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Medical Waste Management in Home Care and Hospice

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Infection Prevention in Home Care and Hospice

- Medical Waste Management
 - Types of regulated waste generated
 - Medical
 - Sharps
 - Disposal

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Infection Prevention in Home Care and Hospice

- Medical Waste Management
 - Transport
 - Storage
 - Blood and body fluid spill management



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Infection Prevention in Home Care and Hospice

- Blood/body fluid exposure and exposure reporting in HHC RNs
- 76 percutaneous injuries per 1000 home health care RNs
- 45.8% of percutaneous injuries not reported
- Adverse working conditions uniquely associated with home health care

Source: Gershon, R., Pearson, J., Sherman, M., Samar, S., Canton, A., Stone, P. (2009). The prevalence and risk factors for percutaneous injuries in registered nurses in the home health care sector. *Am J Infect Control.* 37:525-33.

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Infection Prevention Challenges: Other Distractions

- Potentially leading to needlestick injuries or exposure to bloodborne pathogens:
 - Strong odors
 - Cigarette smoke
 - Traveling alone in high-crime neighborhoods
 - Drug- or alcohol-impaired and aggressive family members, family arguments
 - Guns or drugs present in the home

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Infection Prevention in Home Care and Hospice

- Lack of designated Infection Preventionist
- Lack of surveillance data in national database
 - Inconsistency in surveillance definitions
 - Care provided by caregiver
 - Patients served by more than one healthcare provider

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Surveillance in Home Care and Hospice

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Infection Prevention in Home Care and Hospice


- Surveillance - Monitoring and controlling HAIs in Home Care and Hospice:
 - Conduct risk assessment and program evaluation:
 - Geographic location, community and population served
 - Care, treatment and services provided
 - Analysis of surveillance and other data

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Infection Prevention in Home Care and Hospice

- Surveillance - Monitoring and controlling HAIs in Home Care and Hospice:
 - Use APIC – CDC HICPAC Surveillance Definitions for Home Health Care and Home Hospice Infections
 - Collect CLABSI surveillance data
 - Analyze CLABSI based on catheter days
 - Publish surveillance data

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Infection Prevention in Home Care and Hospice


- Infection Prevention Policies and Procedures:
 - Infection Prevention and Control Plan
 - Hand Hygiene
 - Bloodborne Pathogen Exposure Control Plan
 - Medical Waste Management
 - Respiratory Protection Plan
 - Isolation Precautions
 - Cleaning and Disinfection
 - Surveillance


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Infection Prevention in Home Care and Hospice: Summary

- Infection prevention and control challenges specific to providing care in the home setting
- Surveillance
- Policies and procedures
- Survey tips and strategies

Close your Eyes and
 Tap your Heels Three Times
 and Think to Yourself
 "There's No Place Like Home"



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Thank You!

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