### Oregon Clostridium Difficile Initiative essentials for bedside care

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Current as of 3/17/2016



CENTERS FOR DISEASE CONTROL AND PREVENTION

### **Overview**

- What is "C. diff"?
- Why is it a problem?
- What is my role?
- Bedside care essentials: Detect & Protect
  - Report symptoms
  - Gloves and Gowns
  - Hand hygiene
  - Resident hygiene
  - Linens



Clostridium difficile

# **BIOLOGY & HUMAN DISEASE**



### Let's begin at the beginning

- *Clostridium* spp. are ancient spore-forming anaerobes
- Soil, water, food, bodies, waste
- Long-time human toxin-producing pathogens
  - Clostridium tetani.....tetanus
  - Clostridium botulinum.....botulism
  - Clostridium difficile.....colitis







# *C. diff* spores spread on hands, contaminated linens & surfaces

- Hands of healthcare workers caring for CDI-positive patients
- Environment
- CDI-positive persons
- Asymptomatic carriers
- Make toxins A & B

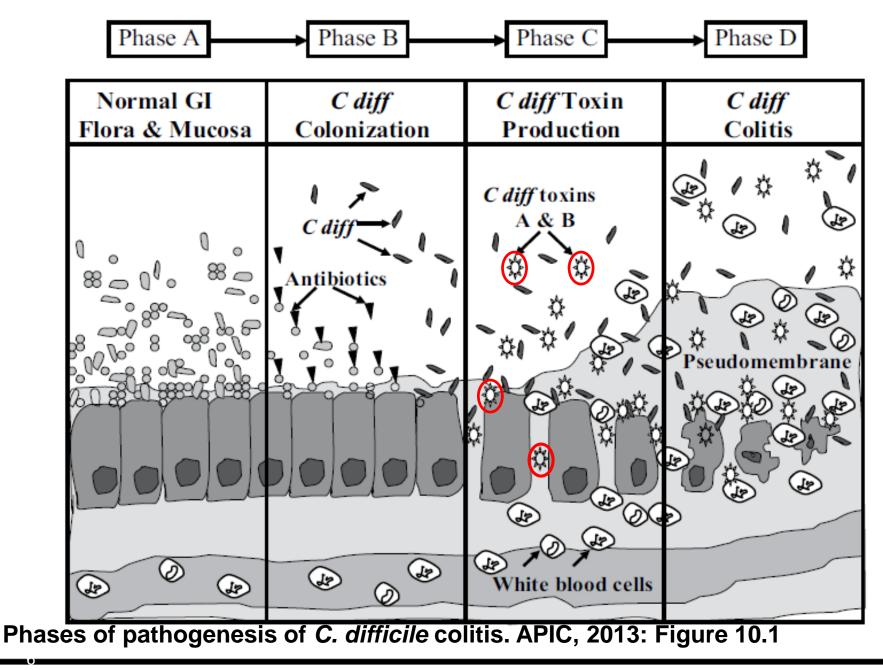


Gram-positive rods of *C. difficile* 

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<sup>5</sup> APIC. Guide to Preventing *Clostridium difficile* Infections 2012.



J/1//2010

### Why is CDI a problem in my facility?

### community

antibiotic density spore density community health

Antibiotic use Underlying health issues\* Female 65+ years Environmental spores Spores that make Toxin A or B facility amplification

antibiotics vulnerable

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<sup>7</sup> \*Immunocompromised, renal failure, diabetes, chronic pulmonary disease tube



Why does CDI amplify?

**1**, 1

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BB

Β

Bo

## Why wear gloves and gowns after diarrhea is over (but still finishing meds)?

Half of residents will have spores on their skin more than ullet1 week after diarrhea over

Spores live for months ulletin the environment







# WHAT IS MY ROLE?



### Each part of the whole





### **Eyes & Ears: Early Detection**

Has my resident had *C. diff* diarrhea before?

Is this resident on antibiotics, which put her at risk for *C. diff* diarrhea?

SMOTAMYS

RISK

Does the resident have a change in stool today? If so, is it bloody or painful or have a different smell?

Did the resident have this yesterday?

How many loose stools over what time period?



Has the medical staff been told of these symptoms which could be *C. diff* diarrhea?

Has testing been ordered?



### **Eyes & Ears: Early Detection**

TIP: Add suspect or confirmed C. diff residents to your team huddle







### Why soap & water?



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### **Contact Precautions = Gowns & Gloves**

### Follow the sign: It's worth it



### CONTACT PRECAUTIONS

#### (IN ADDITION TO STANDARD PRECAUTIONS)

#### Private Room

 A private room is indicated, however, patients infected with the same organism may share a room if necessary

#### Gloves

 Wear gloves for contact with the patient and/or environment. Change gloves after contact with infective material. Remove gloves before leaving the patient's environment.

#### Gown

 Wear a gown if you anticipate that your clothes will come into contact with the patient, environmental surfaces, or items in the patient's room. Remove gown before leaving the patient's environment.

#### Wash Hands

 Wash hands with antiseptic product immediately after glove removal and before leaving the patient's environment.

#### Transport

 Limit the movement/transport of patients to essential purposes only. During transport, ensure that all precautions are maintained at all times.

#### Equipment

 Dedicate the use of patient care equipment to a single patient. If common equipment is used, clean and disinfect between natients









### **Soiled Linens**

TIP: Use gown & gloves when changing linens for C. diff positive residents EVEN IF linens aren't visibly dirty.

TIP: Bag dirty linens <u>in</u> the room; don't carry down the hall.



### **Cleaning & Disinfecting**

- It's Everyone's business!
- Bleach (fresh) or special sporicidal ullet

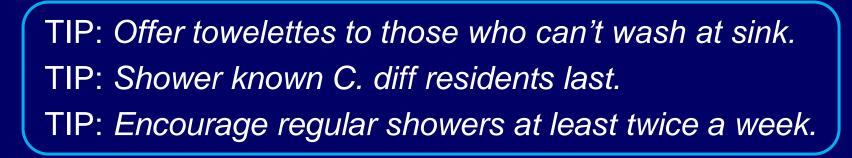
TIP: Ask for a product you can use when Housekeeping unavailable. TIP: Clean "high-touch" areas at each change of shift.





### **Resident Hygiene**

- Hand washing before meals in all residents
- For residents with C. diff:
  - Use the shower, avoid baths
  - Clean and disinfect shower area after each use



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### <sup>19</sup> Reference:

### Housekeeping Considerations for C. diff

- Use commode liners, if possible
- Immediately clean and disinfect commode/toilet and arm rests/grab bars after each use.
- Toilet flush makes droplets

TIP: Work from clean to dirty





### Take aways

- You are the core of resident care & safety
- You can provide resident-centered care AND prevent spreading *C. diff!*
- Discuss resident risk for C. diff
- Communicate changes
- Use gown and gloves when infectious diarrhea
- Soap & water, THEN alcohol hand rub
- Spores are stubborn



### **Case Studies**

- Consider 3 scenarios of common infection control issues and the choice to perform good infection control in the face of resident care and time.
- Ideas?
- Showering: Resident with *C.diff* doesn't want to shower because too much hassle. However, this keeps down spore counts; less spread and reinfection. Offer heater, warm blankets, warm drink after, nice smelling soap/shampoo from home.
- Toileting: How to prepare commode if *C. diff* or noro or other infectious diarrhea; absorbant bags? How to clean and replace commode working from clean to dirty.
- Changing linens: prepare and use contact precautions.





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