

The Centers for Disease Control and Prevention's Vessel Sanitation Program is proud to bring to you the following session:

## *Environmental Health*

While this presentation is primarily intended for cruise vessels under the jurisdiction of the Vessel Sanitation Program it may also be used by anyone who is interested in this topic.

This session should not be used as a replacement for existing interactive training but should be used as an adjunct to a comprehensive training program.



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# Environmental Health

- **Air Systems (9.2)**
- **Child Activity Centers (10.0)**
- Housekeeping (9.0)

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2007



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# Learning Objectives

## Ventilation

- List the inspection and cleaning frequencies for ventilation systems
- List the acceptable methods to make systems accessible for inspections



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# Learning Objectives

## Child Activity Center

- List some the signs and symptoms of common infectious childhood diseases
- Describe the procedure to be followed should a child develop symptoms while at the center
- List the materials and equipment that must be available at
  - Toilets rooms
  - Diaper changing stations



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# Ventilation Systems

- HVAC Systems
  - Heating
  - Ventilation
  - Air Conditioning



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# Air Handling Systems

- Construction
  - Accessible
    - Inspection
      - Inspection port acceptable
    - Maintenance
    - Cleaning
  - Self-draining
    - No standing water



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# Air Conditioning Unit



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# Air Systems Maintenance

- Written maintenance and cleaning plan
- Air Handling units shall be kept clean
  - Cooling coils and condensate pans
    - cleaned to remove dirt and organic material
  - Evaporative condensers
    - inspected at least annually
    - cleaned as necessary



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# Child Activity Center



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# Child Activity Center



- Child-related activities
- Under 6-years old
- Cared for by vessel staff



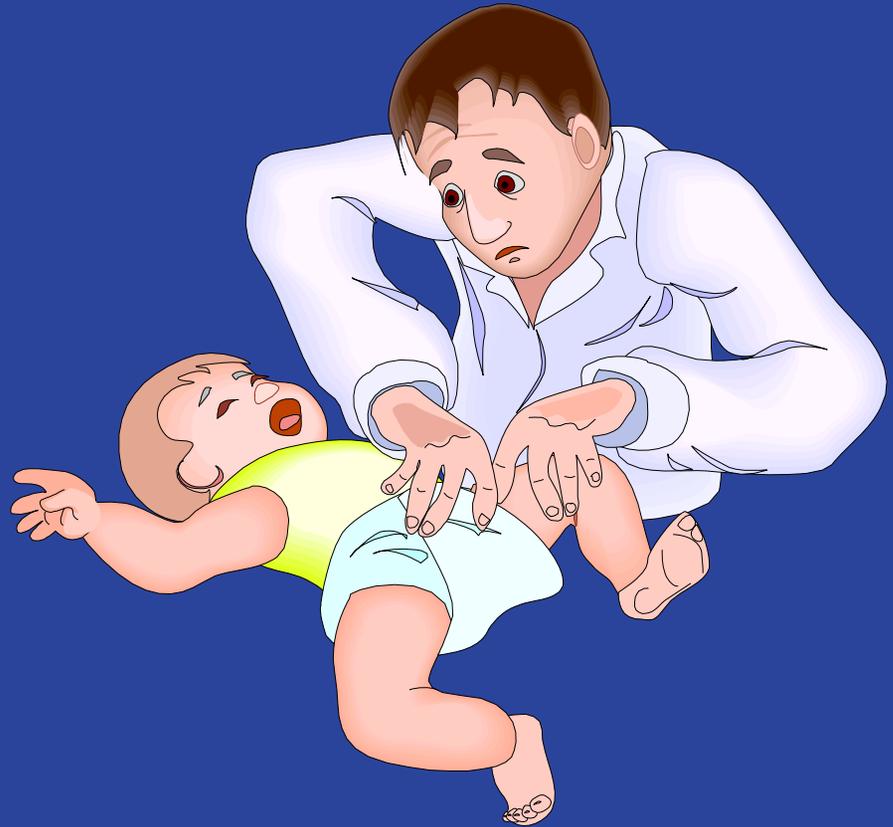
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# Diaper-Changing Facilities

- Changing Table
  - Impervious
  - Nonabsorbent
  - Smooth
  - Durable
  - Cleanable
- Supplies
  - Disposable diapers
  - Gloves
  - Baby wipes
  - Cleanser and Disinfectant
  - Airtight diaper receptacle
  - Signs



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# Diaper Changing Handwash Station

- Soap
- Paper towels or  
Air Dryer
- Waste receptacle



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# Toilets and Handwashing

- Design and Supplies:
  - Child sized
  - Air dryers or paper towels
  - Soap
  - Toilet tissue
  - Disposable gloves
  - Sanitary wipes
  - Airtight receptacle
  - Signs



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# Furnishings and Toys

## Furnishings

- Cleanable and Clean
- ### Cleaning Frequency
- Touchable Surfaces
    - Daily
  - Mouthable Surfaces
    - Between use
  - Tables/high chairs/linens
    - Between use
  - Carpeting and Decks
    - Daily



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# Children and Infectious Illness

- Signs and Symptoms
  - Vomiting or diarrhea
  - Fever
  - Rash
  - Swollen glands
  - Discharge from nose or eyes
  - Constant crying or irritability
  - others



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# Exclusion Policy

- Reports to center with illness
- Develops symptoms while at the center
  - Medical staff must clear children to return to center

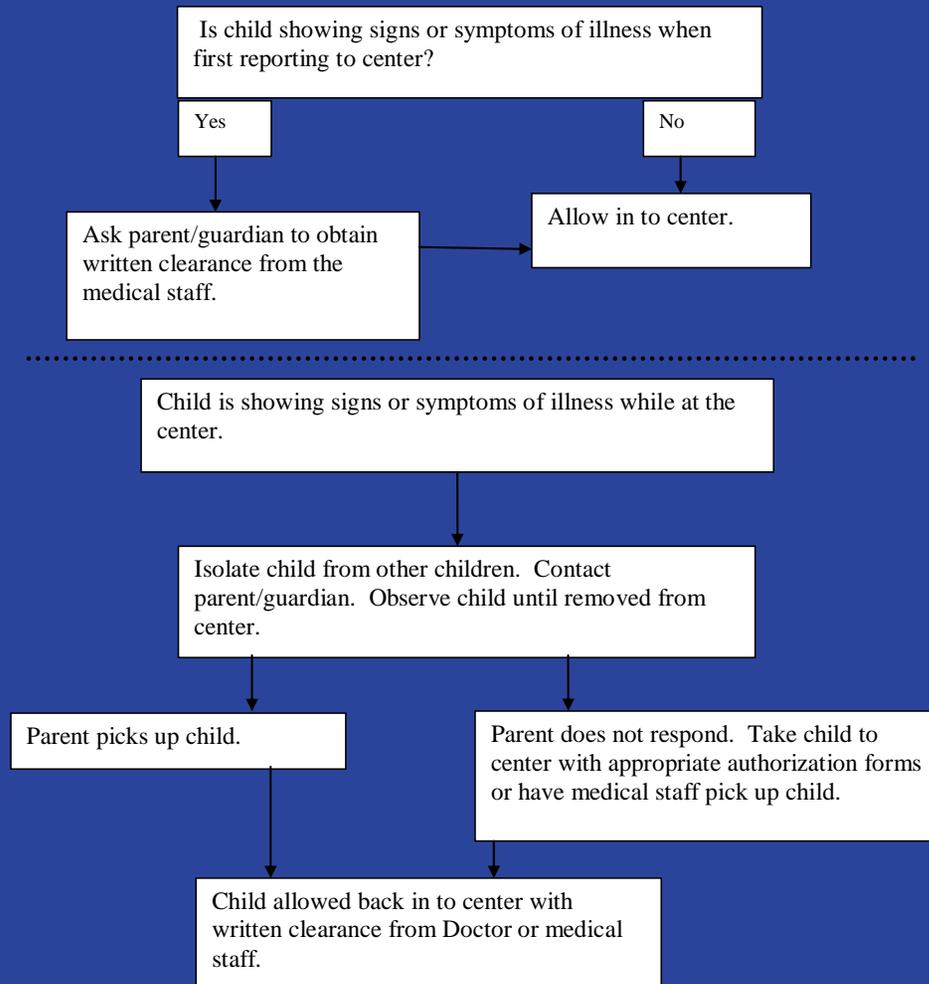


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## Sample Exclusion policy for ill children



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# Resources and References

## Child Activity Center

- [www.cdc.gov](http://www.cdc.gov)
  - [www.cdc.gov/nceh/vsp](http://www.cdc.gov/nceh/vsp)

## Ventilation

- [www.epa.gov](http://www.epa.gov)
  - [www.epa.gov/iaq](http://www.epa.gov/iaq)



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