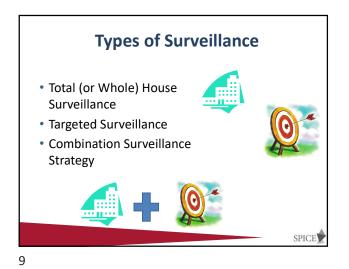


**Rationale for Conducting** "Surveillance is a comprehensive method of Surveillance measuring outcomes and related processes of care, <u>analyzing</u> the data, and <u>pr</u> • One of the most information to members of the healthcare team to assist in improving those outcomes and important aspects of processes (APIC Text) an IP's responsibilities Establish Baseline Data Reduce Infection Rates "Surveillance system must include "routine, ongoing, and systematic collection, analysis, interpretation, and dissemination of surveillance data to identify infections (i.e., HAI and communicable-acquired), infection risks, communicable disease outbreaks and to maintain or improve resident health status:" (CMS 2/23) · Should cover Detection of Outbreaks residents, staff, Monitor Effectiveness of contractors (in the Interventions facility) and visitors Education of HCP Include process and outcome measures Required as a Component of Plan SPICE SPICE 7 8

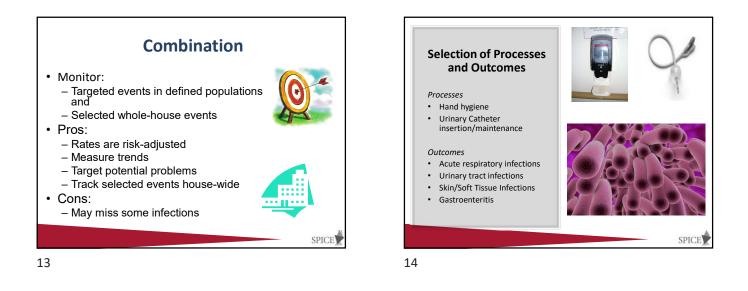


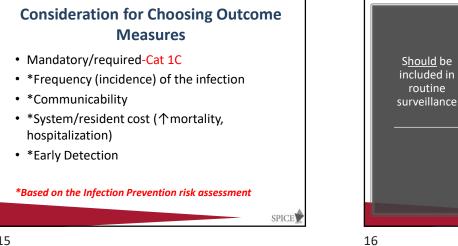
**Total (Whole House)** Cons • Monitor: - All infections Monitor all infections Overall rate not sensitive or risk-- Entire population adjusted - All units Include entire No trends or comparison population Labor intense and inefficient use of resources Not based on risk assessment SPICE 10

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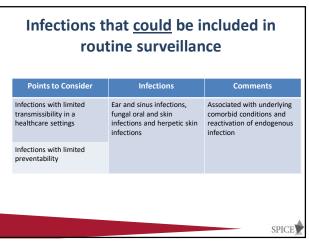


Pros	Cons	
Risk-adjusted rates	May miss some infections	
Can measure trends and make comparisons	Limited information on endemic rates	
More efficient use of resources		
Can target potential problems		
Identify performance improvement opportunities		
Can evaluate effectiveness of prevention activities		
	SPIC	





15





nfectio

Viral respiratory tract infections, viral GE, and viral conjunctivitis

Pneumonia, UTI, GI Associated with tract infections, hospitalization and

(including C. *difficile*) functional decline in and SSTI LTCF residents

Any invasive group A A single laboratory

infection, acute viral should prompt hepatitis, norovirus, further investigation

scables, influenza

COVID-19 Caurie

Associated with outbreaks among residents and HCP in LTCFs

confirmed case

SPICE

Points to Consider Evidence of <u>transmissibility</u> in a healthcare setting

Processes available to prevent acquisition of infection, i.e., HH compliance

Clinically significant cause of morbidity

Specific pathogens

causing serious outbreaks

or mortality

Infections with other accepted definitions (may apply to only specific at-risk residents)	Surgical site infections, central-line- associated bloodstream infections and ventilator-associated pneumonia	LTCF-specific definitions were not developed. Refer to the National Healthcare Safety Network's criteria
		SPICE

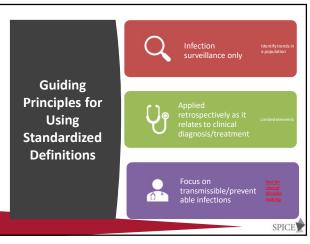


## Sources of Data for Surveillance

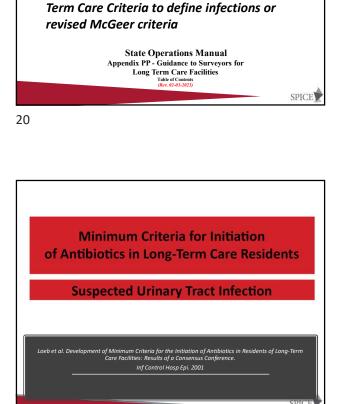
- Clinical ward/unit rounds
- Medical Chart
- Lab reports
- Kardex/Patient Profile/Temperature logs
- Antibiotic Starts
- IT support



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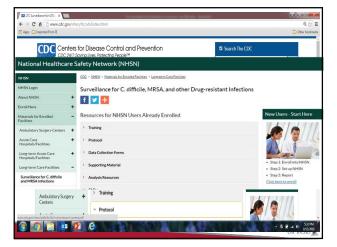


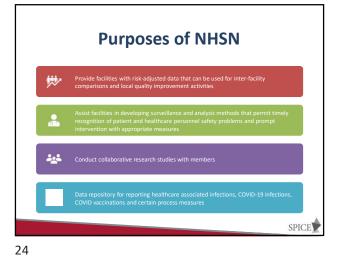
• The facility's surveillance system must include

nationally-recognized surveillance criteria

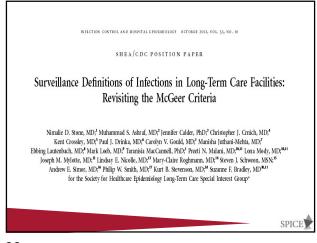
such as but not limited to, the CDC's National Healthcare Safety Network (NHSN) Long

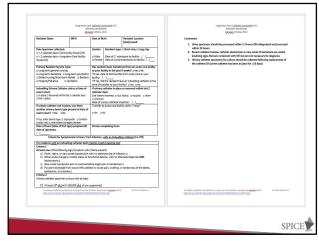
a data collection tool and the use of



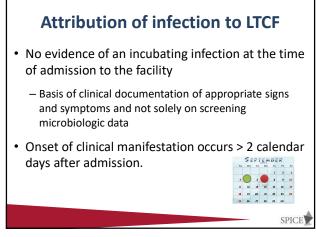




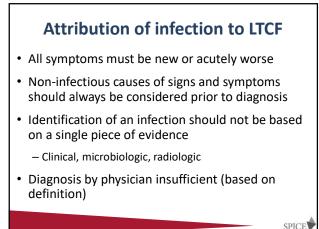




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28



**Constitutional Requirements** 

#### Fever:

- A single oral temperature >37.8°C [100°F], OR
- Repeated oral temperatures >37.2°C [99°F]; rectal temperature >37.5° (99.5°F) OR
- >1.1°C [2°F] over baseline from a temperature taken at any site

30

SPICE

## **Constitutional Requirements**

#### Leukocytosis

• Neutrophilia > 14000 WBC/mm<sup>3</sup>

OR

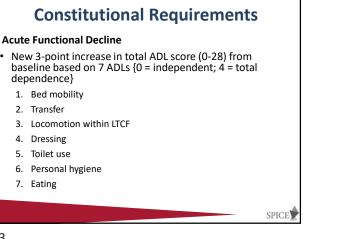
• Left shift (>6% bands or ≥1500 bands/mm<sup>3</sup>)

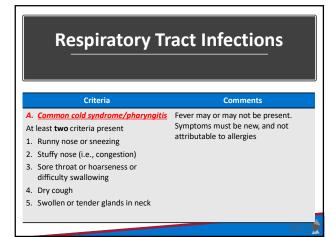


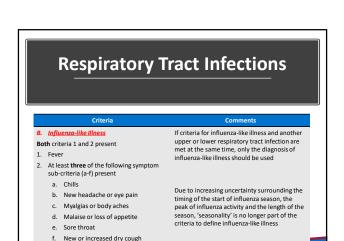
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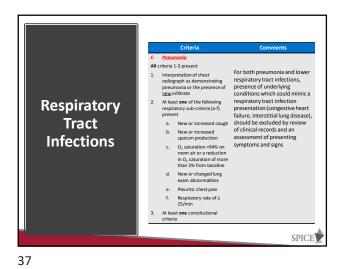
### **Constitutional Requirements**

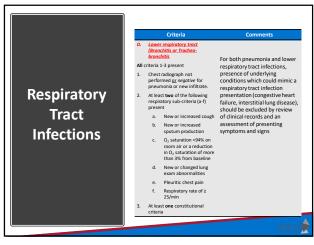
#### Acute Change in Mental Status from Baseline

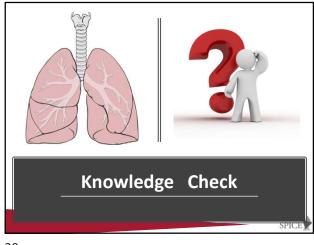
· Based on Confusion Assessment Method (CAM) criteria available in MDS

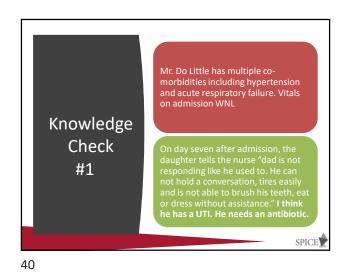
Change	Criteria	
Acute Onset	Evidence of acute change in mental status from resident baseline	
Fluctuating	Behavior fluctuating (e.g., coming and going or changing in severity during assessment)	
Inattention	Resident has difficulty focusing attention (e.g., unable to keep track of discussion or easily distracted	
Disorganized Thinking	Resident's thinking is incoherent (e.g., rambling conversation, un flow of ideas)	iclear Either
Altered level of consciousness	Resident's level of consciousness is described as different from baseline (e.g., hyperalert, sleepy, drowsy, difficult arouse, nonresponsive)	/or
		CDICI
		SPICI

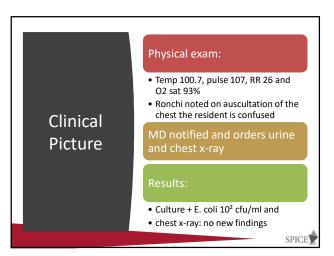


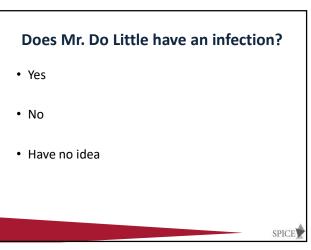












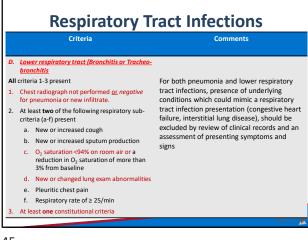
#### What surveillance criteria are met?

- A. Common Cold
- B. Pneumonia
- C. Urinary tract infection
- D. Lower respiratory track

# If Yes, is it facility or community associated? • Facility • Community

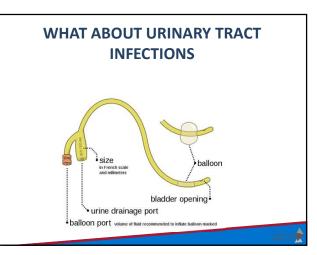
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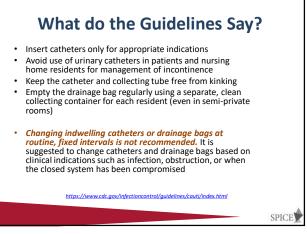
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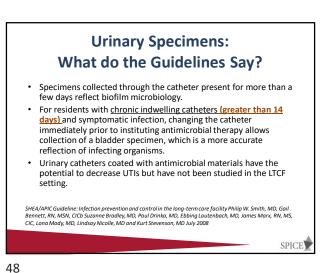


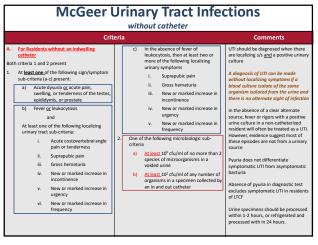
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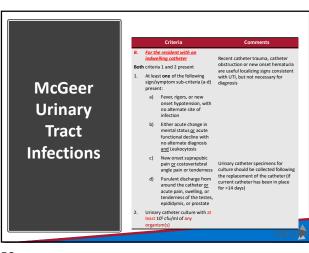




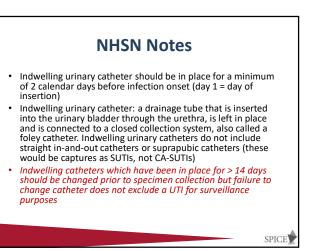




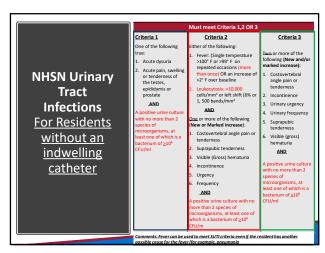
**NHSN Key Reminders** 1. "Mixed flora" is not available in the pathogen list within NHSN. Therefore, it cannot be reported as a pathogen to meet the NHSN UTI criteria. Additionally, 'mixed flora" often represents contamination and likely represents presence of multiple organisms in culture (specifically, at least two organisms). 2. Yeast and other microorganisms, which are not bacteria, are not acceptable UTI pathogens, and therefore, cannot be used to meet NHSN UTI criteria without the presence of a qualifying bacterium. 3. To remove the subjectivity about whether a fever is attributable to a UTI event, the presence of a fever, even if due to another cause (for example, pneumonia), must still be counted as a criterion when determining if the NHSN UTI definition is met.



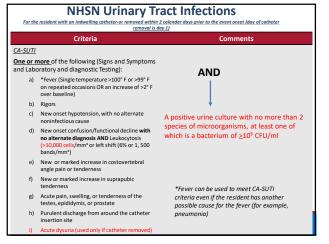
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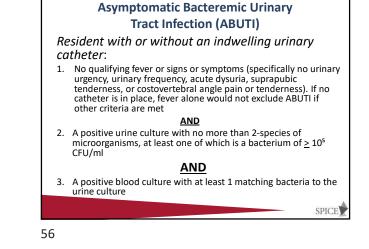
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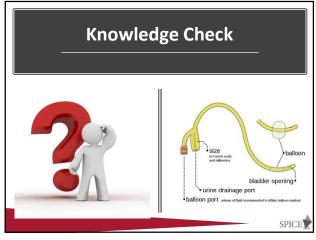


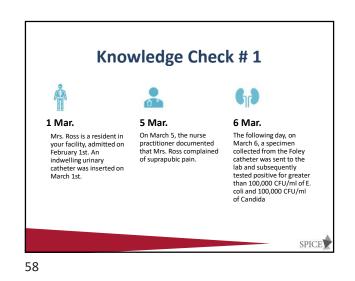
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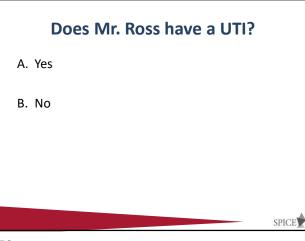


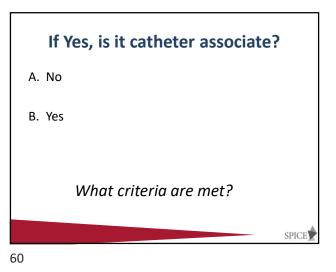


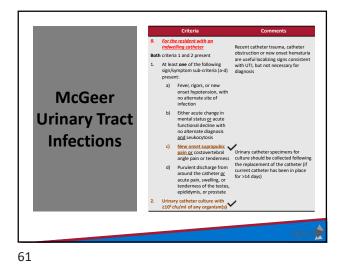


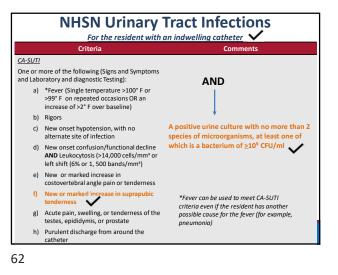


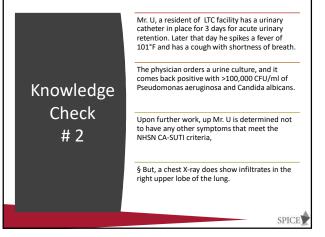


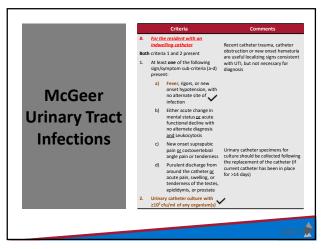


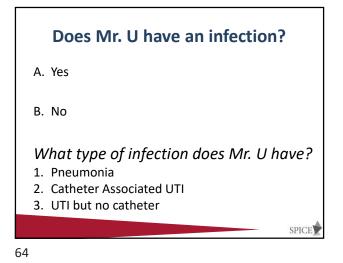


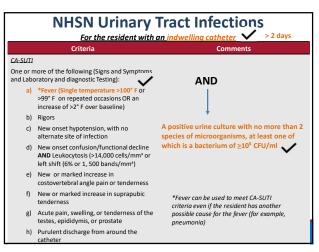


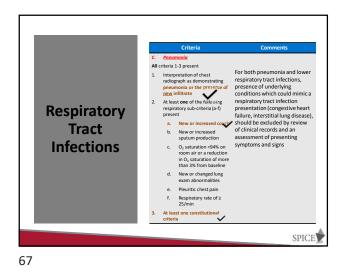


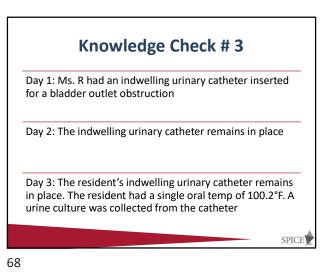


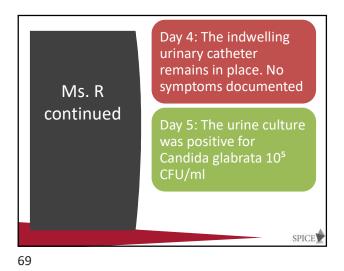






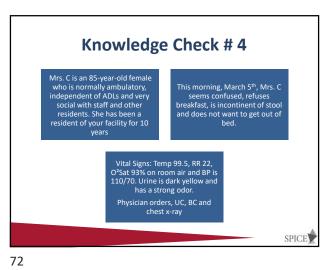


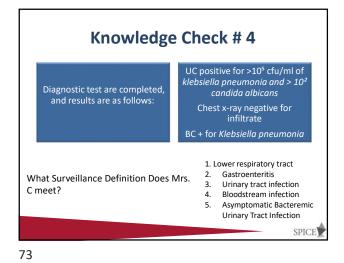




Does Ms. R have an infection? A. Yes B. No *What type of infection does Ms. R have?* 1. Catheter Associated UTI 2. UTI but no catheter Which definition is met? 1. NHSN 2. McGeer 3. Both SPICE

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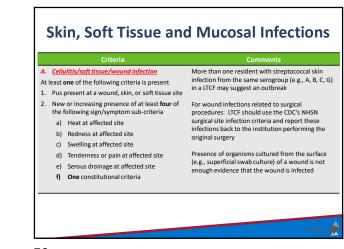


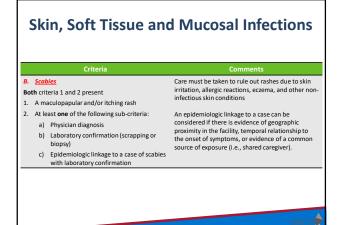
**Asymptomatic Bacteremic Urinary** Tract Infection (ABUTI) Resident with or without an indwelling urinary catheter: 1. No qualifying fever or signs or symptoms (specifically no urinary urgency, urinary frequency, acute dysuria, suprapubic tenderness, or costovertebral angle pain or tenderness). If no catheter is in place, fever alone would not exclude ABUTI if other criteria are met AND 2. A positive urine culture with no more than 2-species of microorganisms, at least one of which is a bacterium of  $\geq 10^5$ CFU/ml AND 3. A positive blood culture with at least 1 matching bacteria to the urine culture SPICE

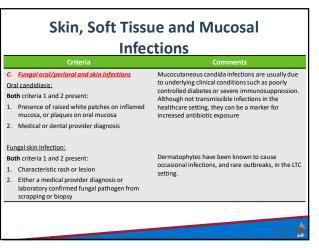
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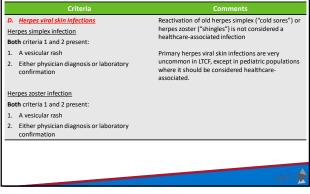


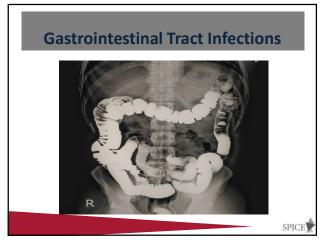


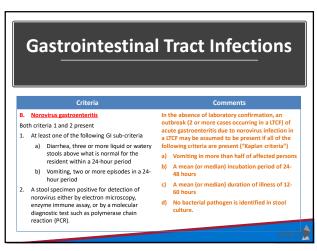


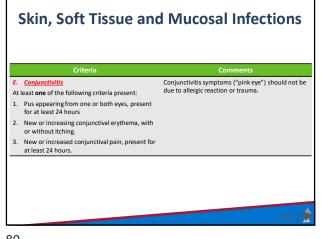


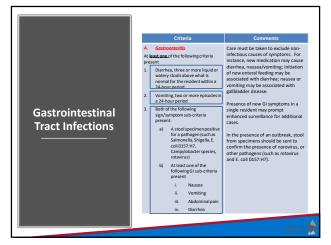
## Skin, Soft Tissue and Mucosal Infections

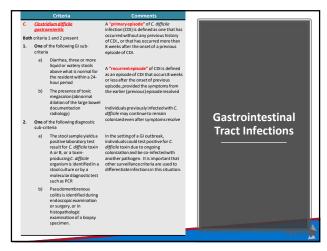


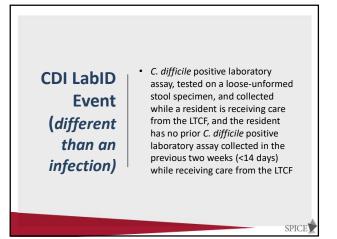


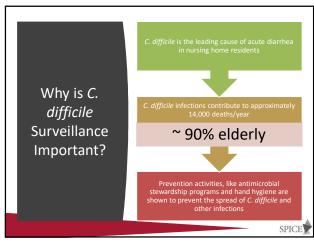




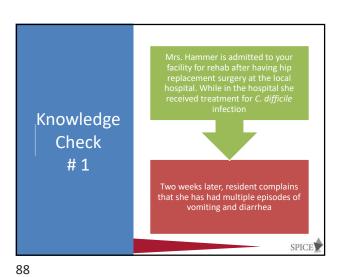


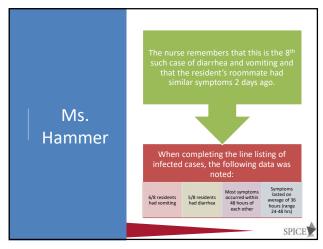


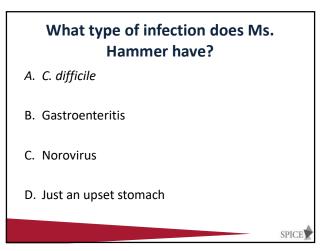


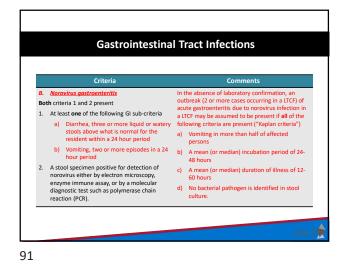


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**Gastrointestinal Tract Infections** Criteria Co Care must be taken to exclude non-infectious causes of symptoms. For instance, new medication A. Gastroenteritis At least one of the following criteria present may cause diarrhea, nausea/vomiting; initiation of 1. Diarrhea, three or more liquid or watery stools above what is normal for the resident within a 24-hour period new enteral feeding may be associated with diarrhea; nausea or vomiting may be associated with gallbladder disease. 2. Vomiting, two or more episodes in a 24-hour period Presence of new GI symptoms in a single resident 3. Both of the following sign/symptom sub-criteria may prompt enhanced surveillance for additional present: cases a) A stool specimen positive for a pathogen (such as Salmonella, Shigella, E. coli 0157:H7, Campylobacter species, rotavirus) In the presence of an outbreak, stool from specimens should be sent to confirm the presence of norovirus, or other pathogens (such as rotavirus b) At least one of the following GI sub-criteria present and E. coli 0157:H7). i. Nausea ii. Vomiting iii. Abdominal pain iv. Diarrhea

92

