

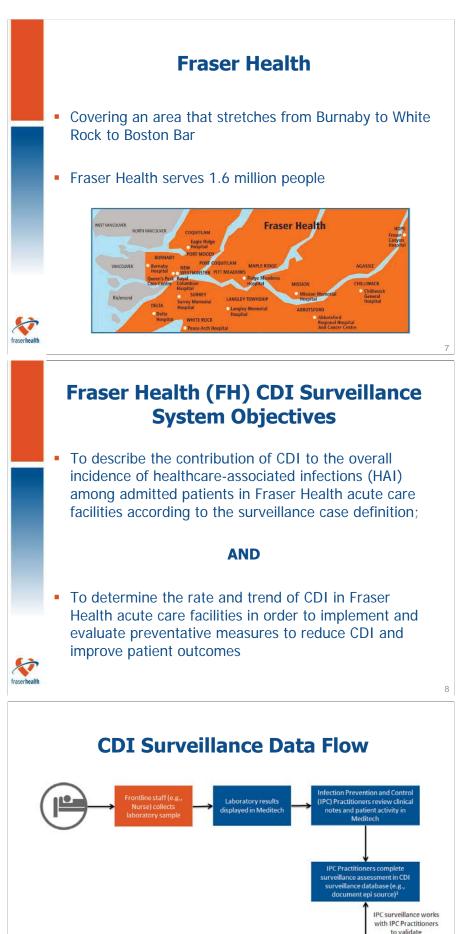
- Gastrointestinal surgery or manipulation of the GI tract (i.e., tube feeding)
- Acid-suppressing medications (e.g., proton pump inhibitors)

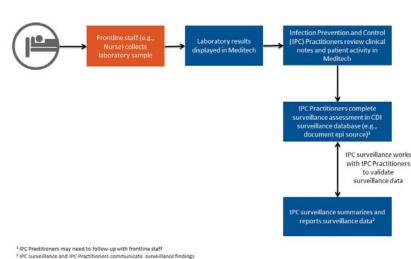
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Challenges with CDI Surveillance

- CDI diagnosis is challenging due to a higher number of people with asymptomatic *C. difficle* colonization
- Risk of over-diagnosis if only testing with PCR
- Gold standard for CDI surveillance is a chart review to match clinical symptoms with laboratory results

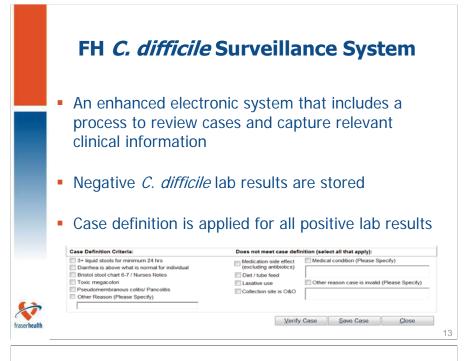


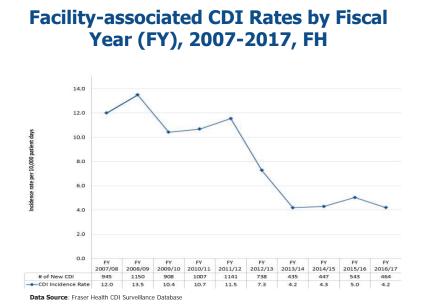






• 80% of *C. difficile* tests are negative





Evaluation of the Application of the CDI Case Definition

Objectives

- 1. To assess the quality of the application of the CDI case definition, and
- 2. To evaluate the review process of the new CDI surveillance system



Methodology: Evaluation of the Application of the CDI Case Definition

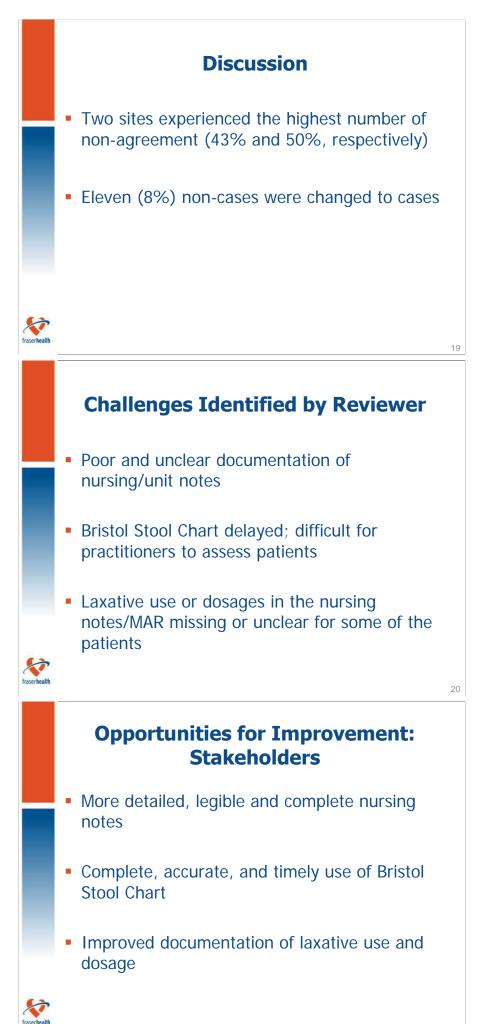
- Conservative random sample of non-cases selected from fiscal periods 1 to 7, FY 2014/15
- Random sample of cases included to blind reviewer
- Experienced Infection Prevention and Control (IPC) acute care consultant reviewer
- Inter-rater reliability (Kappa statistic) calculated between the reviewer and the practitioners' original responses using Microsoft Excel 2010 and IBM SPSS 21

Site	Total Records Sampled	Total Non-Cases	Total Cases	Total Records Assessed	Total Initial Discrepant	Total Non-Cases Changed to Case	% Change
1	18	14	2	16	3	0	0%
2	18	13	5	18	2	0	0%
3	6	6	0	6	0	0	0%
4	4	4	0	4	1	1	25%
5	16	6	8	14	6	0	0%
6	7	6	0	6	1	1	17%
7	13	9	2	11	4	1	9%
8	3	1	0	1	0	0	0%
9	12	10	0	10	1	0	0%
10	3	2	0	2	0	0	0%
11	21	18	0	18	4	2	11%
12	17	10	2	12	6	5	42%
13	29	24	3	27	3	1	4%
	167	123	22	145	31	11	8%

Results

- A portion of sampled records were not assessed by the reviewer (~13%)
- Case reviewer inquired with practitioner about rationale for initial decision
- Non-disclosure of case reviewer's decision
- Final decision established
- Case adjustment completed Kappa: 0.75 (95% confidence interval: 0.59-0.92)

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Opportunities for Improvement: Infection Prevention and Control Practitioners

- Tube feeds make assessment of case definition difficult, however nutrition notes are a great resource for practitioners to review
- Colonized cases may require a follow-up review

Opportunities for Improvement: Surveillance Actions

- Targeted education where required
- Case review findings were shared with the team
- Emphasis on consistent documentation about case assessment in the CDI database

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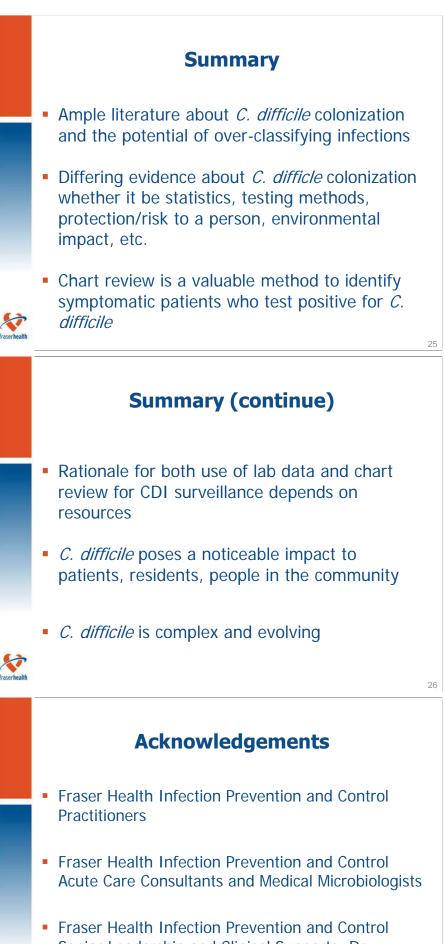
Next Steps for the IPC Surveillance Program

- Annual review of cases will continue
- Continued discussion about CDI surveillance with team
- Provision of material and training targeting assessment of case definition for patients with *C. difficile* positive results



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