



Introduction

- The Centers for Medicare and Medicaid Services evaluate hospital-acquired infections (HAI) and hospital readmissions within 30 days.
- Clostridioides difficile infection (CDI) is an HAI notorious for causing recurrent illness and potentially leading to re-hospitalizations
- Infectious Diseases (ID) and Gastroenterology (GI) providers may be uniquely trained to manage patients with CDI

Methods

- Single-center, retrospective, chart review at an urban, tertiary academic medical center with 547 licensed beds
- All hospitalized patients with a positive stool test for *C. difficile* (GI panel PCR, FilmArray, Biofire, C. difficile PCR, Xpert CD assay, or Cepheid) with or without an ICD-10 code of Enterocolitis due to *C. difficile* (A04.7, A04.71, A04.72) from January 2018 through December 2018 were included
- Demographic and clinical data at the time of diagnosis and up to 90 days after discharge were collected from the electronic health record
- Primary outcome: re-hospitalization for recurrent CDI (rCDI)

Results

- 586 patients reviewed for inclusion, 42 were excluded due to death or enrollment in hospice during the index hospitalization. An additional 59 patients were excluded with due to a lack of post hospitalization documentation.
- The majority of patients received oral vancomycin therapy for their primary CDI episode

Table 1: Baseline Patient Characteristics

Variable	Patients (N = 485)
Male, n (%)	239 (49.3)
Age in years, median [IQR]	63 [52, 72]
Race, n (%) Asian Black or African American White	14 (2.9) 97 (20.0) 336 (69.3)
Charlson Comorbidity Index Score, median [IQR]	2 [1, 4]
Immunocompromised*, n (%)	209 (43.1)

*Transplant, HIV, malignancy, leukemia, lymphoma, autoimmune disease

Re-hospitalization of Patients for Recurrent *Clostridioides difficile* Infection **Can Re-Hospitalization Rates be Improved?** Emily N. Drwiega¹, Larry Danziger¹, Stuart Johnson^{2,3}, Andrew M. Skinner^{2,3}

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Table 2: Re-hospitalization for rCDI

Variable

Hospitalization for recurrence, n (%)

Primary CDI, n (%)

Recurrent CDI, n (%)

Table 3: Specialty Care of Patients with rCDI

Variable

ID Consult during index hospitalization, n (%)

GI Consult during index hospitalization, n (%)

Follow-up appointments within 30 days, n (%) Any follow-up appointment No follow-up appointment **ID** follow-up appointment **GI** follow-up appointment

Evaluated by ID/GI*

*ID/GI consult during index hospitalization OR ID/GI follow-up appointment within 30 days





	ID Inpatient Consult	No ID Inpatient Consult	P-value
	5/80 (6.3)	49/313 (15.7)	0.03
(%)	3/25 (13.6)	3/30 (11.1)	0.81