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# **EVALUATION OF EFFECTIVENESS OF COMPOUNDED ORAL VANCOMYCIN CAPSULES FOR TREATMENT OF CLOSTRIDIUM DIFFICILE INFECTION**

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### **OBJECTIVES**

Oral vancomycin is the standard treatment for mild/moderate *Clostridium difficile* infection (CDI). Since there are no marketed vancomycin capsules in our country, vancomycin vials have been taken orally. High price, difficult acquisition and complicated dilution, especially among elderly patients, were associated with poor adherence and higher risk of recurrence. Since December 2017 vancomycin 125 mg capsules were compounded and dispensed to solve these issues.

**Purpose:** To study clinical effectiveness of oral vancomycin in patients with CDI and to compare the utilization of two different pharmaceutical forms: vials and capsules.

# METHODS

- Retrospective observational cohort study.
- All outpatients treated with oral vancomycin (capsules and vials) from January 2017 to December 2018.  $\bullet$
- Variables:
  - Demographics (sex, age)
  - > CDI episode (new episode, first/second/subsequent recurrence)
  - $\succ$  Vancomycin pharmaceutical form (capsule/vial)
  - Treatment adequacy (dosing and duration)

- Recurrence rate\*
- Treatment adverse effects
- > Hypervirulent PCR-ribotype 027 strain cases

Recurrence rate<sup>\*</sup>: presence of symptoms within 60 days after treatment

#### RESULTS

#### Vial cohort

- **35 patients** (60.0 % women) Median age: 69 years (range: 20-97) CDI episode:
- 22 new episodes (62.8%)
- 11 first recurrences (31.4%)
- 2 second or more recurrences (5.8%)

#### **Capsules cohort**

- **64 patients** (59.4 % women) Median age: 70 years (range: 10-82) CDI episode:
- 48 new episodes (55.0%)
- 13 first recurrences (20.3%)
- 3 second or more recurrences (4.7%)





PCR-ribotype 027 was found in 9 patients (9.1%).

No serious adverse events were observed

## CONCLUSIONS

- ✓ Oral vancomycin is safe regardless pharmaceutical form.
- ✓ **Prescription** adequacy **improves** with **capsules**.
- ✓ Further studies need to be done to confirm if capsules relates to better adherence and less recurrence rate.

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