

## C. difficile Management

Children's of Alabama

Updated: 8/30/2024



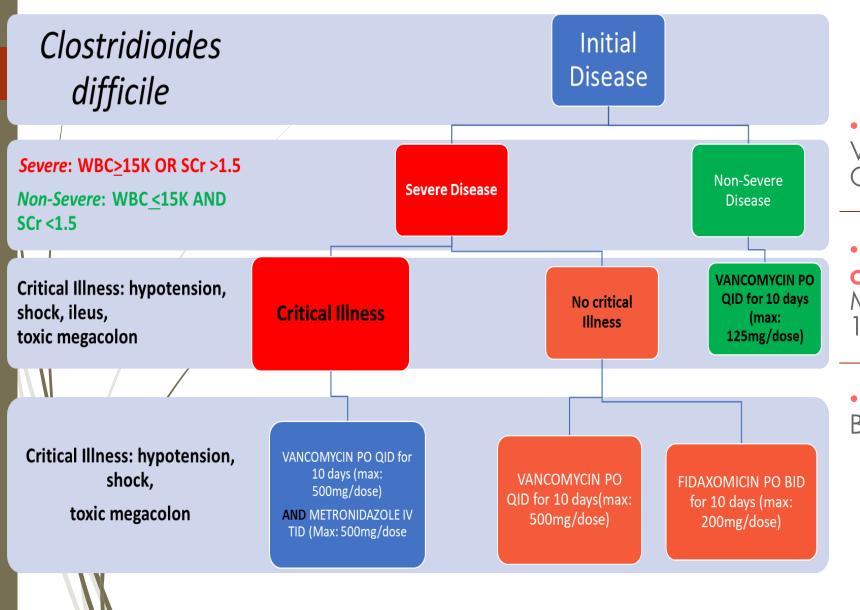


## Who to test?

- Risk Factors (priority to test) WITH clinical symptoms:
  - Recent antibiotic exposure
  - Immunocompromised
  - Inflammatory Bowel Disease
  - Prior history of confirmed CDI
- **Diarrhea** at least  $\geq$ 3 **liquid** stools in 24 hours
- No other causes of diarrhea (medications such as laxatives in the last 48 hours, change in enteral feedings or other bowel irritating medications)
- No retest within 30 days, unless clinical suspicion of recurrence (no "test of cure"
- NO patient less than 12 months of age should be tested for Cdiff --- testing will be rejected by the lab (does not include GI panel, just the Cdiff NAAT)
- All patients TESTED for CDI should be placed on contact isolation

## C. difficile Diagnostics

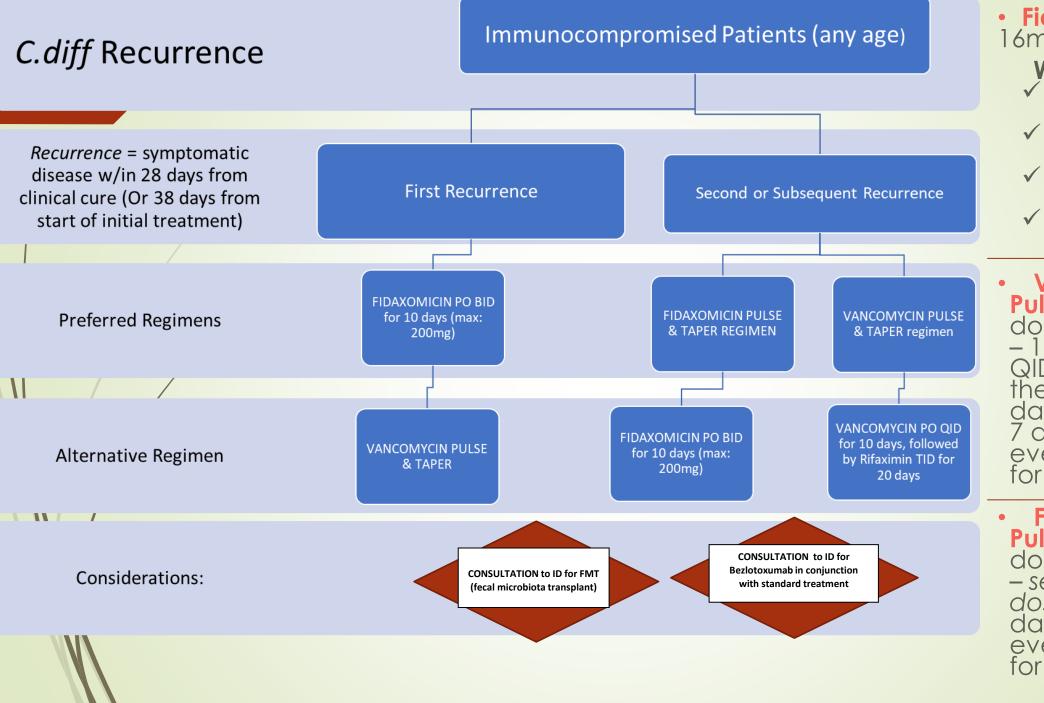
Table. Tests for C. difficile Infection				
Test	Sensitivity	Specificity	Substance Detected	Comments
Toxigenic culture (TC)	High	Low	C. difficile vegetative cells or spores	Must be combined with a toxin test
Nucleic acid amplification test (NAAT)	High	Low/ moderate	C. difficile nucleic acid (toxin genes)	
Glutamate dehydrogenase (GDH)	High	Low	C. difficile common antigen	Must be combined with a toxin test
Cell cytotoxicity neutralization assay (CCNA)	High	High	Free toxins	
Toxin A and B enzyme immunoassays	Low	Moderate	Free toxins	



- Vancomycin Dosing: Vancomycin PO 10mg/kg/dose QID
- Metronidazole Dosing (for critical illness only): Metronidazole IV 10mg/kg/dose TID
- Fidaxomicin: 16mg/kg/dose BID;

## Weight based

- ✓ 4-7kg: 80mg/dose;
  ✓ 7-<9kg: 120mg/dose;</li>
  ✓ 9-<12.5kg: 160mg/dose;</li>
  ✓ ≥12.5kg: 200mg



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   16mg/kg/dose BID;
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  - 120mg/dose; 9-<12.5kg:
    - 9-<12.5kg: 160mg/dose;
  - √ >12.5kg:
    200mg
- Vancomycin Pulse & Taper: Max dose: 125mg/dose – 10mg/kg/dose QID for 14 days, then BID for 7 days, then daily for 7 days, then ONCE every other day for 14-56 days
- Fidaxomicin
  Pulse & Taper: Max
  dose: 200mg/dose
   see above
  dosing BID for 5
  days, then ONCE
  every other day
  for 20 days

