

CC: Diarrhea**HPI:** 84 yr old woman

- 2 days of non-bloody diarrhea
- AOx1 to name, less responsive
- Very weak, lethargic: unable to walk, mostly bed-bound

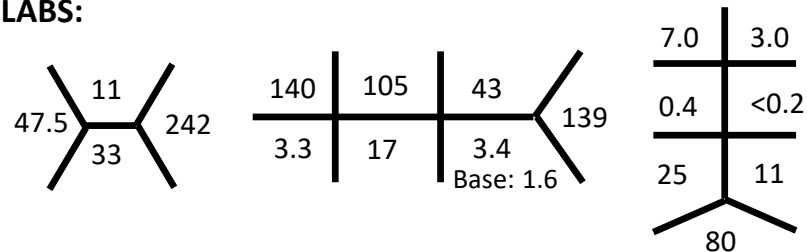
- At baseline: AOx2 (name, place) and conversant. Able to walk with FWW.

- Recent admission for pneumonia ~3 weeks ago

- Resides in SNF. RN measured low blood pressure → RN called 911

PMH: HTN, CAD, CKD 3, Dementia**SH:** Denied current ETOH, tobacco, or drug use.
Lives at a SNF**ALLERGIES:** NKDA**MEDS:**

- ASA
- Atorvastatin
- Clopidogrel
- Hydralazine
- Lisinopril
- Lasix
- Senna

PHYSICAL EXAM:**Tmax:** 39.1C, **BP:** 75/34 (after 2.5L LR), **HR:** 100, **RR:** 19, **SpO2:** 95% on RA**General:** Lethargic woman, opens eyes to voice**HEENT:** PERRLA, nonicteric sclera, dry MM, supple neck, no JVD**CV:** Tachycardic with regular rhythm, no M/R/G**Pulm:** unlabored breathing on room air, CTAB**GI:** Nondistended, soft, normal bowel sounds, nontender**MSK:** no edema, pulses 2+, warm extremities**Neuro:** A&O x1 (name), lethargic, inconsistently following simple commands**LABS:**Diff: 63.5% PMN,
presence of
bands

Lactate: 2.0

Blood cultures x2
NGTDUA2+ protein
Nitrites: negative
Trace LE

15 WBC / HPF

Urine culture
No growthCXR:

Unremarkable

Enteric Pathogen Panel
NegativeC. diff

GDH: not detected

Toxin A/B: detected

PCR: Toxigenic C. diff positive

PROBLEM REPRESENTATION:

Elderly woman w/ HTN, CKD3, CAD, dementia, recent hospitalization for pneumonia (abx exposure), presenting with acute diarrhea, fevers, and encephalopathy, found to be in septic shock due to...

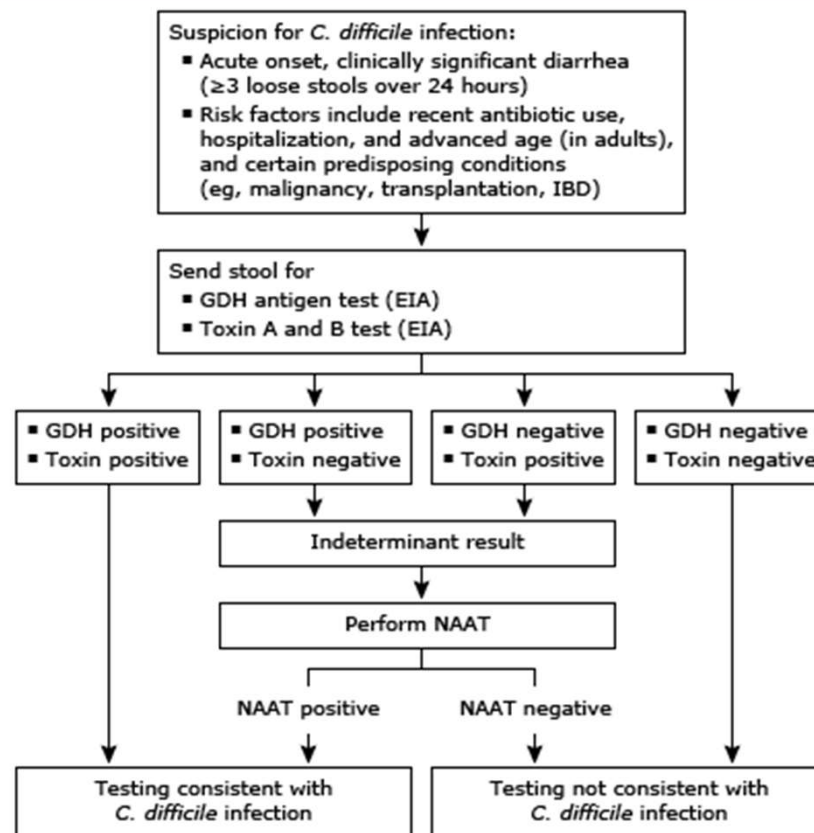
FULMINANT C. DIFF INFECTION (CDI)



DISEASE SEVERITY

Disease Severity		Diagnostic Criteria
Nonfulminant	Nonsevere	$\text{WBC} \leq 15\text{k}$ and $\text{Cr} < 1.5$
	Severe	$\text{WBC} > 15\text{k}$ and $\text{Cr} \geq 1.5$
Fulminant		Presence of any: Hypotension / Shock, Ileus, Toxic Megacolon

LABORATORY INTERPRETATION



GDH: protein that is present in all *C. diff* isolates

Toxin A/B: tests for presence of *C. diff* toxin A/B

NAAT (PCR): tests for presence of toxigenic *C. diff* (*tcdB* gene)

TREATMENT (2021 IDSA CDI Guideline Update)

		Initial episode	1 st recurrence	2 nd or subsequent recurrence
Nonfulminant	Nonsevere	Fidaxomicin > PO Vanc; Metronidazole is an alterative	Fidaxomicin > PO Vanc as standard dosing or extended- pulse regimen. If prior CDI was w/in the last 6 months, adjunctive Bezlotoxumab	Fidaxomicin > PO Vanc as standard dosing or extended- pulse regimen. If prior CDI was w/in the last 6 months, adjunctive Bezlotoxumab . If current is 4th+ recurrence, favor FMT.
	Severe	Fidaxomicin > PO Vanc		
Fulminant		PO Vancomycin. If ileus, consider PR Vanc. IV Metronidazole should be given together with PO / PR Vanc (esp if ileus present).		

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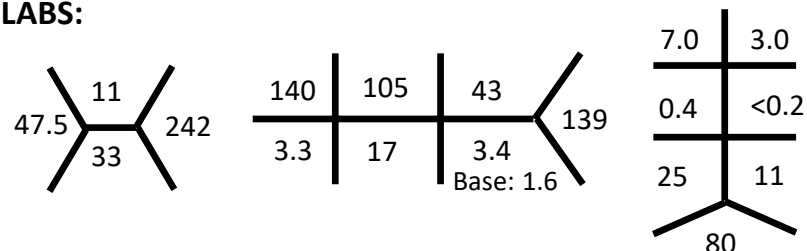
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DIAGNOSIS: **FULMINANT C. DIFF INFECTION (CDI)****LEARNING POINTS:**

- CDI Disease Severity

Disease Severity		Diagnostic Criteria
Nonfulminant	Nonsevere	WBC ≤ 15k and Cr < 1.5
	Severe	WBC > 15k and Cr ≥ 1.5
Fulminant		Presence of any: Hypotension / Shock, Ileus, Toxic Megacolon

- Treatment (2021 IDSA CDI Updated Guidelines)
 - Fidaxomicin preferred over Vancomycin in Nonfulminant CDI
 - If prior CDI was within the last 6 months: adjunctive Bezlotoxumab