Supplemental Table 1: Severity Scores Assigned on Admission

Supplemental Table 2: Sensitivities and specificities of the different cytokines in predicting clinical outcomes

Supplemental Figure: Time to diarrhea resolution in patients with and without immunosuppression.

- A. In non-immunosuppressed patients: Time to diarrhea resolution is more prolonged in patients with high IL-8 mRNA (ΔCT IL-8 mRNA >0m) at diagnosis (IL-8 +, green line) (median 12 days) compared to those with low IL-8 mRNA levels (IL-8 -, blue line) (median 3 days).
- B. In immunosuppressed patients: Time to diarrhea resolution does not differ between patients with high fecal IL-8 mRNA at diagnosis (IL-8 +, red line) (median 5 days) and those with low IL-8 mRNA levels (IL-8 -, orange line) (median 4 days).

+ represents censored values. p represents the p value of the Log Rank (Mantel-Cox) test. \*represents p<0.05

	Points assigned				
	HINES VA [16]	UPMC1 [14]	CSI [13]		
Fever > 38°C	1				
lleus (clinical or radiograpghic)	1				
Systolic blood pressure < 100mmHg	1				
15 000 < WBC < 30 000 (cells/µL)	1				
WBC >30 000 cells/µL	2				
CT scan findings (colonic wall thickening,	1 for 1 finding				
colonic dilatation, ascites)	2 for ≥2 findings				
Abdominal Pain		1			
WBC >20 000 or <1 500 (cells/µL)		1			
Bowel wall thickening, ascites or ileus		1			
Malignancy			1		
WBC >20 000 cells/µL			1		
Blood albumin < 3 g/dL			1		
Blood creatinine >1.5 times baseline			1		
Disease is considered severe if total points	≥ 3	≥2	≥2		

## Supplemental Table 1: Severity Scores Assigned on Admission

Supplemental Table 2: Sensitivities and specificities of the different cytokines in

predicting clinical outcomes.

	Diarrhea persistent 5Treatment withdays after initiation ofvancomycin		Treatment with		Severe disease (ICU admission, toxic	
			n			
	CDI therapy	/			megacolon, colectomy	
					or death)	
Biomarkers	Sensitivity	Specificity	Sensitivity	Specificity	Sensitivity	Specificity
CXCL-5 mRNA	0.43	0.84	0.45	0.82	0.40	0.70
ΔCT > 0						
IL-8 mRNA	0.75	0.5	0.81	0.53	0.8	0.4
ΔCT > 0						
IL-8 protein	0.61	0.59	0.63	0.58	0.45	0.48
>0.75 ng/mL						
Lactoferrin protein	0.67	0.43	0.69	0.45	0.73	0.41
> 7.25 µg/mL						
HINES VA	0.14	0.91	0.17	0.94	0.45	0.93
Severe if ≥ 3						
UPMC1	0.4	0.8	0.38	0.78	0.54	0.74
Severe if ≥ 2						
CSI	0.29	0.78	0.31	0.82	0.54	0.8
Severe if ≥ 2						

