

Table 1. Baseline characteristics of CDI+ and CDI- patients pre- and post-PS matching

	Unmatched groups						PS-matched groups					
	CDI+		CDI-		P value	Standard difference	CDI+		CDI-		P value	Standard difference
	N	% or SD	N	% or SD			N	% or SD	N	% or SD		
	6,838	0.6%	1,158,327	99.4%			6,761		6,761			
<b>Gender</b>												
Female	4,557	66.6%	711,862	61.5%	<0.0001	10.8	4,507	66.7%	4,570	67.6%	0.2488	2.0
<b>Age</b>												
Mean age, years	81.0	8.0	77.0	7.6	<0.0001	51.6	81.0	8.0	81.1	7.9	0.337	1.7
<b>Age strata (years)</b>												
65-74	1,624	23.7%	503,656	43.5%	<0.0001	42.7	1,603	23.7%	1,531	22.6%	0.1423	2.5
75-84	2,755	40.3%	442,436	38.2%	0.0004	4.3	2,727	40.3%	2,737	40.5%	0.8609	0.3
85 or older	2,459	36.0%	212,235	18.3%	<0.0001	40.5	2,431	36.0%	2,493	36.9%	0.2678	1.9
<b>Region</b>												
Northeast	1,870	27.3%	215,819	18.6%	<0.0001	20.8	1,829	27.1%	1,829	27.1%	1	0.0
Midwest	1,762	25.8%	284,078	24.5%	0.0172	2.9	1,743	25.8%	1,701	25.2%	0.4071	1.4
South	2,468	36.1%	473,167	40.9%	<0.0001	9.8	2,454	36.3%	2,538	37.5%	0.1344	2.6
West	731	10.7%	179,737	15.5%	<0.0001	14.3	728	10.8%	683	10.1%	0.2056	2.2
Other	7	0.1%	5,526	0.5%	<0.0001	7	7	0.1%	10	0.1%	0.4666	1.3
<b>Race/Ethnicity</b>												
White	6,176	90.3%	1,040,290	89.8%	0.1652	1.7	6,112	90.4%	6,116	90.5%	0.9069	0.2
Black	464	6.8%	76,730	6.6%	0.5926	0.7	453	6.7%	435	6.4%	0.532	1.1
Hispanic	79	1.2%	12,457	1.1%	0.5232	0.8	78	1.2%	88	1.3%	0.4348	1.3
Asian	48	0.7%	10,600	0.9%	0.0648	2.4	47	0.7%	59	0.9%	0.2419	2.0
Other	71	1.0%	18,250	1.6%	0.0004	4.7	71	1.1%	63	0.9%	0.4873	1.2
<b>CDAD acquisition</b>												
Healthcare-acquired	5,641	82.5%	NA	NA	NA	NA	5,564	82.30%	NA	NA	NA	NA
Community-acquired	1,197	17.5%	NA	NA	NA	NA	1,197	17.70%	NA	NA	NA	NA
<b>Location of first CDAD encounter</b>												
Inpatient	3,997	58.5%	NA	NA	NA	NA	3,959	58.56%	NA	NA	NA	NA
Outpatient	548	8.0%	NA	NA	NA	NA	543	8.03%	NA	NA	NA	NA
SNF	236	3.4%	NA	NA	NA	NA	235	3.48%	NA	NA	NA	NA
Other*	2057	30.1%	NA	NA	NA	NA	2,024	29.94%	NA	NA	NA	NA
<b>Comorbid conditions</b>												
Myocardial infarction	1,240	18.1%	55,795	4.8%	<0.0001	42.7	1,217	18.0%	1,198	17.7%	0.6697	0.7

Congestive heart failure	3,180	46.5%	134,968	11.7%	<0.0001	83.1	3,109	46.0%	3,018	44.6%	0.1159	2.7
Peripheral vascular disease	1,880	27.5%	120,150	10.4%	<0.0001	44.8	1,844	27.3%	1,836	27.2%	0.8772	0.3
Cerebrovascular disease	2,787	40.8%	183,255	15.8%	<0.0001	57.6	2,737	40.5%	2,744	40.6%	0.9024	0.2
Dementia	1,196	17.5%	41,593	3.6%	<0.0001	46.5	1,175	17.4%	1,121	16.6%	0.2161	2.1
Chronic pulmonary disease	3,194	46.7%	238,553	20.6%	<0.0001	57.5	3,137	46.4%	3,254	48.1%	0.0439	3.5
Rheumatologic disease	551	8.1%	46,343	4.0%	<0.0001	17.1	541	8.0%	516	7.6%	0.4232	1.4
Peptic ulcer disease	424	6.2%	18,788	1.6%	<0.0001	23.8	410	6.1%	375	5.5%	0.1981	2.2
Diabetes	2,804	41.0%	317,765	27.4%	<0.0001	28.9	2,752	40.7%	2,909	43.0%	0.0062	4.7
Hemiplegia or paraplegia	340	5.0%	8,507	0.7%	<0.0001	25.7	335	5.0%	292	4.3%	0.0787	3.0
Renal disease	2,288	33.5%	99,863	8.6%	<0.0001	64.0	2,236	33.1%	2,203	32.6%	0.5456	1.0
Leukemia	124	1.8%	6,682	0.6%	<0.0001	11.4	121	1.8%	98	1.4%	0.1171	2.7
Lymphoma	233	3.4%	13,308	1.2%	<0.0001	15.2	231	3.4%	204	3.0%	0.1882	2.3
Metastatic solid tumor	450	6.6%	17,609	1.5%	<0.0001	25.9	434	6.4%	484	7.2%	0.0874	2.9
Other malignancy	1,507	22.0%	155,124	13.4%	<0.0001	22.8	1,482	21.9%	1,589	23.5%	0.281	3.8
Diabetes with chronic complications	1,031	15.1%	76,065	6.6%	<0.0001	27.7	1,005	14.9%	1,073	15.9%	0.1049	2.8
Mild liver disease	150	2.2%	5,799	0.5%	<0.0001	14.7	149	2.2%	106	1.6%	0.0066	4.7
Moderate or severe liver disease	106	1.6%	2,588	0.2%	<0.0001	14.2	103	1.5%	82	1.2%	0.1200	2.7
AIDS	10	0.2%	649	0.1%	0.0018	2.8	9	0.1%	10	0.1%	0.8184	0.4
Mean Charlson Comorbidity Score	4.6 ± 3.3		1.7 ± 2.1		<0.0001	102.8	4.5 ± 3.3		4.6 ± 3.4		0.3175	1.7
<b>Inflammatory Bowel Disease</b>												
Crohn's disease	114	1.7%	4,245	0.4%	<0.0001	13.0	110	1.6%	107	1.6%	0.8373	0.4
Ulcerative colitis	186	2.7%	6,213	0.5%	<0.0001	17.3	168	2.5%	171	2.5%	0.8689	0.3
<b>Hospitalization and nursing home history</b>												

Hospitalization within prior 1 year	5,209	76.2%	209,607	18.1%	<0.0001	143.1	5,132	75.9%	5,333	78.9%	<0.0001	7.1
Mean days hospitalized within prior 1 year	20.6	21.4	9.3	12.2	<0.0001	65.3	20.1	20.3	18.0	22.8	<0.0001	10.0
Hospitalization within prior 90 days	4,320	63.2%	69,745	6.0%	<.0001	150.3	4,243	62.8%	4,273	63.2%	0.5931	0.9
Mean days hospitalized within prior 90 days	14.6	13.2	7.3	7.5	<0.0001	68.3	14.4	13.0	10.8	10.6	<0.0001	29.9
Nursing home stay within prior 90 days	2,827	41.3%	44,112	3.8%	<0.0001	100.5	2,754	40.7%	2,669	39.5%	0.1358	2.6
<b>Antibiotic exposure</b>												
Antibiotic use within prior 1 year	3,401	49.7%	337,075	29.1%	<0.0001	43.2	3,356	49.6%	3,479	51.5%	0.0344	3.6
Mean duration of antibiotics, days	17.0	40.0	7.2	25.9	<0.0001	28.9	16.8	39.8	18.0	42.7	0.1110	2.7
Antibiotic use within prior 90 days	2,316	33.9%	144,792	12.5%	<0.0001	52.3	2,274	33.6%	2,333	34.5%	0.2844	1.8
Mean duration of antibiotics, days	5.4	12.5	1.7	7.0	<0.0001	36.7	5.3	12.3	5.6	13.3	0.1482	2.5
<b>Gastric acid suppressant exposure</b>												
Gastric acid suppressant use within prior 1 year	1,722	25.2%	145,692	12.6%	<0.0001	32.6	1,697	25.1%	1,728	25.6%	0.5399	1.1
Mean duration of gastric acid suppressants, days	48.0	103.2	26.1	81.1	<0.0001	23.6	48.0	103.2	48.9	103.7	0.5864	0.9
Gastric acid suppressant use within prior 90 days	1,308	19.1%	109,051	9.4%	<0.0001	28.0	1,288	19.1%	1,341	19.8%	0.2495	2.0

Mean duration of gastric acid suppressants, days	9.7	22.8	5.2	17.8	<0.0001	21.9	9.7	22.8	10.2	23.2	0.2008	2.2
<b>Mean ± SD Medicare + Medicaid cost, \$US per patient per month</b>												
Inpatient stay	\$2,364	\$3,742	\$265	\$926	<.0001	77.0	\$2,296	\$3,618	\$1,978	\$2,870	<0.0001	9.7
Outpatient	\$501	\$1,126	\$170	\$596	<.0001	36.8	\$495	\$1,110	\$477	\$1,047	0.3489	1.6
Other therapy*	\$2,232	\$1,126	\$510	\$1,116	<.0001	94.1	\$2,201	\$2,306	\$2,246	\$2,365	0.2551	2.0
Pharmacy	\$202	\$400	\$103	\$235	<.0001	30.2	\$202	\$401	\$207	\$365	0.4409	1.3
<b>Total</b>	<b>\$5,299</b>	<b>\$5,380</b>	<b>\$1,047</b>	<b>\$1,978</b>	<b>&lt;.0001</b>	<b>104.9</b>	<b>\$5,193</b>	<b>\$5,218</b>	<b>\$4,908</b>	<b>\$4,783</b>	<b>0.0001</b>	<b>5.7</b>

CDI = *C. difficile* infection; SD = standard deviation; PS = propensity score

\*Category "other" includes: skilled nursing facilities, home health, hospice care, durable medical equipment and carrier charges and all Medicaid charges.