



Canadian Nosocomial Infection Surveillance Program

Surveillance for *Clostridium difficile* associated diarrhea (CDAD) Preliminary results from January 1st to April 30th, 2007

Starting in January 2007, all participating CNISP hospitals are required to submit, on a quarterly basis, the total number of monthly CDAD cases and denominator information to the Public Health Agency of Canada. Denominator information includes total patient days, patient admissions, and the total number of liquid stools submitted to the microbiology laboratory. Whenever possible, denominator information for pediatric and adult patients was obtained separately.

ALL PARTICIPATING HOSPITALS, N=44

Incidence and rates of CDAD by province/region

Region	Cases	Admissions	Per 1,000 admissions (95% CI*)	Patient-days	Per 10,000 patient-days (95% CI*)
BC/AB	368	70,773	5.20 (4.67 – 5.73)	432,088	8.52 (7.65 – 9.39)
SK/MB	32	18,190	1.76 (1.15 - 2.37)	119,432	2.68 (1.75 – 3.61)
Ontario	420	76,013	5.53 (5.00 - 6.05)	509,595	8.24 (7.45 – 9.03)
Quebec	151	27,590	5.47 (4.60 - 6.34)	199,701	7.56 (6.36 – 8.77)
Atlantic	107	35,050	3.05 (2.48 - 3.63)	221,023	4.84 (3.92 – 5.76)
Overall	1,078	227,616	4.74 (4.45 – 5.02)	1,482,485	7.27 (6.84 – 7.71)

* Confidence interval

Percentage of positive stools

Region	# samples tested	# samples positive	% positive
BC/AB	9,317	887	9.52
SK/MB	1,350	56	4.15
Ontario	7,773	510	6.56
Quebec	7,499	549	7.32
Atlantic	1,297	94	7.25
Overall	27,236	2,096	7.70

ADULT AND COMBINED ADULT/PEDIATRIC HOSPITALS, N=39

Incidence and rates of CDAD by region

Region	Cases	Admissions	Per 1,000 admissions (95% CI*)	Patient-days	Per 10,000 patient-days (95% CI*)
Western	390	86,903	4.49 (4.04 – 4.93)	537,915	7.25 (6.53 – 7.97)
Central	562	100,132	5.61 (5.15 - 6.08)	691,990	8.12 (7.45 – 8.79)
Eastern	106	31,359	3.38 (2.74 - 4.02)	204,018	5.20 (4.21 – 6.18)
Overall	1,058	218,394	4.84 (4.55 – 5.14)	1,434,566	7.38 (6.93 – 7.82)

* Confidence interval

Percentage of positive stools

Region	# samples tested	# samples positive	% positive
Western	10,266	921	8.97
Central	14,938	1,033	6.92
Eastern	1,166	82	7.03
Overall	26,370	2,036	7.72

PEDIATRIC HOSPITALS, N=5**Incidence and rates of CDAD by region**

Region	Cases	Admissions	Per 1,000 admissions (95% CI)	Patient-days	Per 10,000 patient-days (95% CI)
Western	10	2,060	4.85	13,605	7.35
Central	9	3,471	2.59	17,306	5.20
Eastern	1	3,691	0.27	17,008	0.59
Overall	20	9,222	2.17 (1.22 – 3.12)	47,919	4.17 (2.34 – 6.00)

Percentage of positive stools

Region	# samples tested	# samples positive	% positive
Western	401	22	5.49
Central	334	26	7.78
Eastern	131	12	9.16
Overall	866	60	6.93