

Identifying hospital-acquired infections using retrospective record review from the Irish National Adverse Events Study (INAES) and European point prevalence survey case definitions

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Table 1 Comparison of INAES and ECDC PPS 2011/12 results

Variable	INAES HAI adverse events*	ECDC PPS 2011/12 Ireland HAIs [22]
Prevalence (95% CI)	4.4% (3.1-6.1%)	5.2% (4.7-5.6%) (5.0% if patients aged ≤15 years of age and acute psychiatric patients excluded)
Incidence (95% CI)	3.8 HAI adverse events per 100 admissions (95% CI 2.5-5.2)	No data
Prevalence in males (95% CI)	5.0% (2.8-7.2%)	5.8%
Prevalence in females (95% CI)	3.9% (2.4-5.4%)	4.6%
Prevalence if surgery performed in admission (95% CI)	6.7% (5.2-8.2%)	11.5% (9.9-13.4%) (Other operative procedure 5.9% (3.9-9.0%))
Prevalence if no surgery performed in admission (95% CI)	3.6% (2.0-5.2%)	4.1% (3.6-4.5%)
Prevalence surgical consultant	(discharge) 5.3% (3.8-6.8%)	(admitting) 8.1% (7.1-9.3%)
Prevalence medical consultant	(discharge) 3.8% (1.9-5.6%)	(admitting) 5.1% (4.5-5.8%)
Prevalence in ICU (95% CI)	14.6% (5.8-23.4%) (admission included ICU stay)	16.5% (13.2-20.3%) (on augmented care unit)
Prevalence if no ICU stay (95% CI)	3.6% (2.4-4.8%)	7.3% (5.5-9.7%) (mixed specialty ward) 6.7% (5.7-7.9%) (surgical ward) 4.8% (4.1-5.6%) (medical ward)
% preventable (95% CI)	74% (50.7-88.7%)	No data
% resulting in no physical impact on discharge (95% CI)	22.0% (15.5-30.4%)	No data
% resulting in minimal impairment or recovery in 1month (95% CI)	31.4% (22.1-42.6%)	No data
% resulting in moderate impairment, recovery in 1-6 months (95% CI)	23.7% (15.2-35.0%)	No data
% resulting in moderate impairment, recovery in 6-12 months (95% CI)	2.6% (0.6-10.0%)	No data
% resulting in permanent disability (95% CI)	6.8% (1.6-25.3%)	No data
% contributing to death (95% CI)	6.7% (2.2-18.2%)	No data
Median duration of admission with HAI (interquartile range)	18 days (7,31)	No data
Median duration of admission without HAI (interquartile range)	4 days (2,8)	No data
Mean additional bed days due to HAI (95% CI)	10.3 (6.8-15.7)	No data

*Point estimates and CIs were weighted to account for the sampling frame