

Point-prevalence survey of healthcareassociated infections and antibiotics use in a home care setting in Gothenburg, Sweden.

Degree Project in 1 year Master programme in medical microbiology, with specialization in infection prevention and control University of Gothenburg

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Home care in Gothenburg



- Growing form of care
- 2700 patients have home care from nurses in Gothenburg
- Type of healthcare procedures in home care
- Healthcare professions in home care
- Collaboration with community health centers
 and hospitals



The idea of the study



- No control meassures of antibiotic use in home care
- Healthcare-associated infections in longterm care facilities (HALT)
- Definition of healthcare associated infections (HAI) in home care



Research question



- What is the prevalence of HAI in patients in home care?
- How common is it for patients in home care to be on antibiotic treatment?
- Can known risk factors of HAI be associated with infections in home care?

Materials and Method



- Descriptive study of HAI and antibiotics
- Central district of Gothenburg
- Patients (N=302) registered by nurse during week 10, 2023
- Data collection by nurses







 HAI = Drug-related infection, postoperative infections and procedure-related infections

• Other infections, wound infections, antibiotics and riskfactors

Result







Total infections



Healthcare associated infections (HAI)





Sustainable city - open to the world



Antibiotic treatment



Riskfactors and HAI



	Patient with HAI	Patient without HAI	P-value	Oddsratio
				(95% CI)
Total	N=10 (3%)	N = 292 (%)		
80 years and older	3(30 %)	142 (48,6%)	0.339	0.5(0.1-1.8)
Women	5(50%)	161 (55%)	0.758	0.8(0.2-2.8)
Drug monitoring	3(30%)	181 (62%)	0.052	0.2 (0.06-1)
Ostomy	1(10%)	14 (4,8%)	0.4	2.2(0.2-18)
Surgical interventions last 30 days	3(30%)	8 (2,7%)	0.004	15.2(3.3-69.8)
Urinary Catheters	5(50%)	29 (9,9%)	0.002	9(2.5-33)
Intravenous catheters	1(10%)	13 (4,5%)	0.382	2.4(0.2-20)
Enteral Nutrition	1(10%)	8 (2,7%)	0.265	3.9(0.4-35)
Tracheostomy	1(10%)	3 (1%)	0.127	10 (1-113)
Pressure Ulcer	0	26 (8,9%)	1.0	
Other wounds	3(30%)	78 (26%)	0.73	1.2(0.3-4.6)
Compression bandages	0	52 (17,5%)	0.2	
Immunosuppressive treatment	0	11 (3,7%)	1.0	
Limited mobility	4 (40%)	57 (19,5%)	0.12	2.7(0.8-10)
Patient with medical device	7 (70%)	61 (20,8%)	0.002	8.8(2.2-35)



Conclusion

Riskfactors like urinary catheter and surgical interventions are associated with HAI

HAI seems to be more common at home care compared to results from previous Swedish studies at long- term care facilities



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