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[Home](#) > [Vol 96, No 2](#) > [Rongrungruang](#)

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Health-Care Associated Infections in Thailand 2011

Yong Rongrungruang, Narumol Sawanpanyalert, Patcharin Chomdacha, Kunlayanee Surasarang, Natcha Wiruchkul, Kanchana Kachintorn, Peangpim Tantilipikara, Somwang Danchavijitr

Abstract

Objective: To study the recent trend of health-care associated infections (HAIs) across Thailand.

Material and Method: Using the modified international HAI definitions, the investigators conducted a prospective, nationwide, multi-centered survey to determine a 1-day point-prevalence of HAIs among hospitalized patients in the 47 acute care, primary to tertiary hospitals in January 2011.

Results: Of total 10,762 patients (female 50.6%, mean age 44.2 ± 27.3 years) enrolled in the study, 780 had HAIs or the average prevalence of HAIs was 7.3% (range 2.8-8.5%). Highest rates of HAIs were found in other hospitals (other type of tertiary-care facilities), intensive care units and lower respiratory tracts when stratified by type of hospital, unit of service and site of HAIs, respectively. Gram negative bacteria remained predominant among etiologic agents causing HAIs, as in prior studies. *Acinetobacter* spp., however, emerged as the most common organism. At the time of study, 49.3% of all patients received one or more antimicrobial agents. Among the patients with HAIs, cephalosporins were the most commonly used.

Conclusion: Recently, no significant change on nationwide prevalence and trend of HAIs in Thailand were demonstrated. Notably, *Acinetobacter* spp. emerged as the most common etiologic agents of HAIs.

Keywords: Health-care associated infection, Prevalence, Etiologic agent, Type of hospital, Nationwide

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The Medical Association of Thailand

Address: 4th Floor, Royal Golden Jubilee Building, 2 Soi Soonvijai, New Petchburi Road, Bangkok 10310, Thailand

Telephone: 0-2716-6102, 0-2716-6962 press 0 Fax: 0-2314-6305

E-mail: jmedassocthai@yahoo.com, math@loxinfo.co.th 