

Rosenthal VD, Diez Pratesi R, Mitrev Z, et al. Device-Associated Infection Rates in 107 Intensive Care Units of 19 Developing Countries. Findings of the International Nosocomial Infection Control Consortium (INICC) In: Proceedings and Abstracts of the 48th Annual Scientific Meeting of the Interscience Conference on Antimicrobial Agents and Chemotherapy; 2008 October 25-28 Washington DC 2008.

Device-Associated Infection Rates in 107 Intensive Care Units of 19 Developing Countries. Findings of the International Nosocomial Infection Control Consortium (INICC)

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Abstract:

Background: To determine the rate of device-associated infections (DAI) in ICUs of INICC member hospitals in Argentina, Brazil, Chile, China, Colombia, Costa Rica, Cuba, India, Kosovo, Lebanon, Macedonia, Mexico, Morocco, Nigeria, Peru, Philippines, El Salvador, Turkey and Uruguay.

Methods: An open label, prospective cohort, active DAI surveillance study was conducted on adult, pediatric and neonatal patients admitted to 107 tertiary-care ICUs of 47 cities in 19 countries. Rates of DAIs were recorded by applying CDC-NNIS system definitions. The protocol, forms, and outcome surveillance methodology were developed by INICC. Data collection was performed in the ICUs. Data uploading and analysis were conducted at INICC headquarters on proprietary software.

Results: From 01/02 to 03/08, 45,736 patients enrolled represented 300,343 bed days.

ICU type	% of DAI per admitted patient	DAI per 1000 Bed days	CLABSI per 1000 CL days	VAP per 1000 device days	CAUTI per 1000 device days
Overall	12.4	18.9	9.2	19.1	6.3
Coronary	5.5	11.6	9.5	18.5	6.0
Surgical cardiothoracic	3.7	7.5	1.4	16.6	0.86
Medical	13.5	16.2	10.0	41.2	9.4
Medical surgical	15.4	22.6	8.9	20.0	6.5
Pediatric	10.2	15.7	6.9	7.8	4.0
Neurosurgical	9.5	19.8	13.1	19.9	8.3
Surgical	14.1	16.1	15.5	17.4	4.7
Trauma	5.8	13.7	10.6	19.8	5.2
Level III NICU	8.2	7.2	14.4	7.0	-

Conclusions: This study identified that DAI rates were high in developing countries ICUs.