

## **We evaluated the practices used in Thai hospitals to prevent catheter-associated urinary tract infection (CAUTI), central line-associated bloodstream infection (CLABSI), and ventilator-associated pneumonia (VAP)“ Apisarnthanarak et al (2017).**

Abstract:

**BACKGROUND:** We evaluated the practices used in Thai hospitals to prevent catheter-associated urinary tract infection (CAUTI), central line-associated bloodstream infection (CLABSI), and ventilator-associated pneumonia (VAP).

**METHODS:** From January 1, 2014-November 30, 2014, we surveyed all Thai hospitals with an intensive care unit and at least 250 beds. The use of prevention practices for CAUTI, CLABSI, and VAP was assessed. High compliance ( $\geq 75\%$ ) with all components of the CLABSI and VAP prevention bundles were determined. CAUTI, CLABSI, and VAP infection rates before and after implementing infection control practices are reported. Multivariable regression was used to examine associations between infection prevention bundle compliance and infection rate changes.

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**RESULTS:** Out of 245 eligible hospitals, 212 (86.5%) responded. A total of 120 (56.6%) and 115 hospitals (54.2%) reported  $\geq 75\%$  compliance for all components of the CLABSI and VAP prevention bundles, respectively, and 91 hospitals (42.9%) reported using  $\geq 4$  recommended CAUTI-prevention practices. High compliance with all of the CLABSI and VAP bundle components was associated with significant infection rate reductions (CLABSI, 38.3%;  $P < .001$ ; VAP, 32.0%;  $P < .001$ ). Hospitals regularly using  $\geq 4$  CAUTI-prevention practices did not have greater reductions in CAUTI (0.02%;  $P = .99$ ).

**CONCLUSIONS:** Compliance with practices to prevent hospital infections was suboptimal. Policies and interventions promoting bundled approaches may help reduce hospital infections for Thai hospitals.

Reference:

Apisarnthanarak, A., Ratz, D., Greene, M.T., Khawcharoenporn, T., Weber, D.J. and Saint, S. (2017) National survey of practices to prevent health care-associated infections in Thailand: The role of prevention bundles. *American Journal of Infection Control*. February 28th. .

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