

ORAL PRESENTATION

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O056: The introduction of a surgical site infection prevention bundle on a nationwide scale

T Hopmans^{1*}, L Soetens¹, J Wille¹, P van den Broek², M Koek¹, B van Benthem¹

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Introduction

In 2009 a patient safety program, consisting of a 4-item surgical site infection (SSI)-prevention-bundle, was introduced in the Netherlands. The infection prevention bundle consist of: timely antibiotic prophylaxis, no preoperative surgical site hair removal, perioperative normothermia and hygiene discipline on the OR.

Objectives

The aim of the SSI-bundle introduced by the safety program is to reduce the SSI-rate through creating more awareness about the importance of patient safety among hospital employees. The objective is a 90% compliance with the complete SSI-prevention bundle.

Methods

Data collection (2009-2012) was incorporated in the PREZIES surveillance network for healthcare associated infections. Compliance with the four interventions was registered separately and combined in patients, who underwent a surgical procedure present on the list of indicator procedures (a selection of 13 procedures of 6 different specialties). Log binomial regression analysis was used to calculate relative risks (chance) on compliance, stratified by medical specialty, calendar time and participation period.

Results

Registration of the complete bundle was around 20% by the end of 2011 (varying between 28% and 66% for the individual bundle items). Compliance with the individual bundle items increased over time: by the end of 2011, three out of four items reached a compliance greater

than 75%. However, compliance with the complete bundle reached 27%.

Conclusion

This is the first patient safety program implementing a SSI-bundle on a nationwide scale. The objective of 90% compliance with the complete bundle was not met; although compliance increased over time, it remained low. Likewise, registration did not exceed 20%. We recommend to prolong this program, however the implementation process must be strengthened. A qualitative study is suggested to gain insight in barriers of this process.

Disclosure of interest

None declared.

Author details

¹Epidemiology and Surveillance, National Institute of Public Health and the Environment, Bilthoven, The Netherlands. ²Department of Infectious Diseases, Leiden University Medical Centre, Leiden, The Netherlands.

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¹Epidemiology and Surveillance, National Institute of Public Health and the Environment, Bilthoven, The Netherlands

Full list of author information is available at the end of the article