

POSTER PRESENTATION

Open Access

Electronic epidemiological query on admission: one year results of an e-health based tool designed to risk assessment and infection control

C Palos*, A Bispo

From 3rd International Conference on Prevention and Infection Control (ICPIC 2015)
Geneva, Switzerland. 16-19 June 2015

Introduction

Patients admitted to hospitals represent a threat as they may be infected or colonized by Epidemiologically Important Microorganisms (EIM). Their detection allows screening and isolation procedures and should start early, preferably at Emergency Room (ER).

Objectives

Assessment of the results obtained from 1 year of Electronic Epidemiological Query on Admission (EEQA) fulfillment.

Methods

EEQA is a 8 question tool obligatory fulfilled at admission. It automatically generates orders (swabs, *Cdiff* toxin and GDH), isolation procedures, e-mails, and ultimately allows detection of colonization/infection by EIM (MRSA, Carbapenem-resistant *Acinetobacter baumannii*, VRE), or infection by *Clostridium difficile* or pulmonary *Mycobacterium tuberculosis*.

Results

On 2014, 13.893 EEQA were fulfilled. 25% resulted positive. Question (Q)1 (Previous hospital or institutional stay of >3 days, or tracheostomy) contributed to 87,4%. Q2 (EIM present on admission) was positive on 7,5%. Q3 (Dialysis, chemotherapy or immunosuppressive therapy on the last 3 months) was detected on 10,8%. Q4 (Pulmonary Tuberculosis suspected or confirmed) contributed to 1,4%. Q5 (Confirmed pneumonia caused by Group A Strepto, Mycoplasma, Adenovirus or H. influenza. Flu, Meningitis... confirmed or suspected) was

positive on 0,7% of cases. Q6 (Diarrhea associated with antibiotics administration on the last month, or in the context of contact with other patients with diarrhea, or in patients older than 65y without other cause) represented 3,5%. Q7 (Diarrhea without context defined on question 6, or any exsudative wound or drain without containment) was present on 3,1%. Q8 (Post-transplantation) contributed to 0,2% of positive EEQA.

Conclusion

EEQA is a simple tool aimed to early detection of high risk patients for infection or colonization by EIM, allowing early and adequate selective screening and isolation procedures according to international guidelines [1], even before micro results are known. This protects healthcare workers, students, other patients and visitors from exposure to these patients, thus minimizing the risk for nosocomial infections.

Disclosure of interest

None declared.

Published: 16 June 2015

Reference

1. Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings. 2007.

doi:10.1186/2047-2994-4-S1-P279

Cite this article as: Palos and Bispo: Electronic epidemiological query on admission: one year results of an e-health based tool designed to risk assessment and infection control. *Antimicrobial Resistance and Infection Control* 2015 **4**(Suppl 1):P279.

Infection Control and Antibiotics Committee, Hospital Beatriz Ângelo, Loures, Portugal