Outbreak Database

Report

Query: AID:2503 Article Title:

"Outbreak of Serratia marcescens in a neonatal intensive care unit: contaminated unmedicated liquid soap and risk factors"

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About the Outbreak Article

Title Outbreak of Serratia marcescens in a neonatal intensive care unit: contaminated

unmedicated liquid soap and risk factors

Authors Buffet-Bataillon S, Rabier V, Bétrémieux P

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Study Type case-control study

Further Outbreaks 0

Comments

URL http://www.ncbi.nlm.nih.gov/pubmed/19246120?

ordinalpos=19&itool=EntrezSystem2.PEntrez.Pubmed_Pubmed_ResultsPanel.Pubmed_DefaultReport

Articles Related

Outbreak Setting

Age Newborn
Country France

Department Neonatology

Facility Intensive care unit
Time Period 04/2006 to 08/2006

x-Phasic monophasic

Microorganisms

Investigation Phenotype, Genotype

Microorganisms 1. Serratia marcescens

Development

Type Description Phase

Sources

Care equipment Samples of the single soap dispenser

collected from room no. 10 grew S.

marcescens.

Transmissions

Contact The soap dispenser acted as a

continuous source of S. marcescens, facilitating handborne transmission of S. marcescens by healthcare workers.

Risk Factors

Procedure Infants with S. marcescens colonisation

or infection were more likely to have been exposed to a central or percutaneous venous catheter and had longer exposure to endotracheal

intubation.

Setting Hospitalisation in the room

contaminated by the unmedicated soap was a risk factor for infection or colonisation with S. marcescens.

Measures

Modification of care/equipment The potential source of infection could

be reduced by using 'airless' dispensers. Unmedicated soap was removed from patient rooms after each discharge.

Patient screening/surveillance All neonates on the unit were screened

for respiratory and gastrointestinal carriage. This screening was repeated weekly and for each new admission.

Isolation/cohorting

Personnel training An education program was instituted

to reinforce adherence to universal precautions, and the use of alcohol-

based hand rub for all care.

Hand washing/hand disinfection

Infections or Colonizations

Number Type

Infections

3 (exact) Unknown location

Colonizations

5 (exact) Respiratory system

Number of Cases

NumberTypeFatality TotalFatality Infection5 (exact)Patients(not mentioned)(not mentioned)