

POSTER PRESENTATION

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# Use of daptomycin and vancomycin in blood stream infections with PDR *Acinetobacter Baumannii*

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## Introduction

Multidrug-resistant and lately pan drug-resistant (PDR) *Acinetobacter Baumannii* presents an increasing challenge to health care and especially in Intensive Care Units (ICU).

## Objectives

To evaluate the efficacy of daptomycin and vancomycin against PDR *Acinetobacter Baumannii* blood stream infections in ICU. In vitro, the administration of antibiotics usually used against Gram positive cocci (like vancomycin or daptomycin) has resulted in good bacterial response against PDR *Acinetobacter* even though it's a Gram - bacterium. However, clinical data to support the use of these regimens are still lacking.

## Methods

From June 2014 to March 2015 all PDR *Acinetobacter Baumannii* blood stream infections along with the given therapeutic regimens were recorded. Age, sex, total days of antibiotic administration and culture results were recorded.

## Results

4 blood stream infections in 4 patients (all women aged 34-78 average 57.75) were recorded for the time interval mentioned. Among those, 3 were originally receiving intravenous colistin plus meropenem while one was only taking meropenem. As soon as PDR blood stream infection was confirmed daptomycin 6mg/kg (average 9 days of administration) was started on 2 patients while

vancomycin 15mg/kg/12 hours (average 8 days of administration) was added to the other two cases. Subsequent blood cultures came back negative after 2-3 days (2.2 days) of treatment.

## Conclusions

Despite the small number of patients daptomycin and vancomycin seems to be effective against PDR *Acinetobacter Baumannii* blood stream infections. Further studies are needed to support the proposed scheme.

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