# **ACUTE EOSINOPHILIC PNEUMONIA SECONDARY TO DAPTOMYCIN: A CASE REPORT**



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5PSQ-042

J01 - Antibacterials for systemic use

Background

A 81 years old woman was admitted to a surgical cleaning of infect knee prosthesis and the administration of

targets antibiotics. After starting with daptomycin, the patient developed an acute eosinophilic pneumonia.

### Purpose

To analyze whether the symptomathology was related to antibiotic treatment and to establish the causality.

#### **Material and methods**

A descriptive observational study design was carried out. The medical history was obtained from the digital clinical history (DIRAYA) and the optimized computerized order entry software from the pharmacy department (APD- PRISMA). A bibliographic research was conducted to find similar cases or if it was an uncommon adverse effect. Modified Karch-Lasagna's algorithm was applied to assess the relationship between the acute eosinophilic pneumonia and daptomycin.

After the surgical cleaning, fever appeared and the patient startted with ceftazidime and linezolid treatment. In the intraoperative culture it was detected a methicillin-resistant Staphylococcus epidermidis who showed most sensitivity to daptomycin. After four weeks with daptomycin 6 mg/kg/day, fever and dyspnea appeared. The x-ray study showed bilateral pneumonia with eosinophylia and the patient needed an admission in an intensive care unit moreover. A new culture was obtained and it resulted negative. With the suspicion of an eosinophilic pneumonia and after being consulted the EPAR-Product Information, daptomycin was switched to vancomycin 30 mg/kg/day for the treatment of prosthesis infection, empiric antibiotic therapy was suspended and methylprednisolone was prescribed to treat the eosinophilic pneumonia. Five days later, the patient was discharged with positive synovial fluid cultures and a prescription of a once-weekly dalbavancin. After four weeks of treatment, cultures were negatives. In contrast with notified case series, Staphylococcus aureus wasn't the causative strain in our case1. Modified Karch-Lasagna's algorithm established a 'probable' relationship between

daptomycin and eosinophilic pneumonia. Adverse effect was reported to the local pharmacovigilance centre.

## Conclusion

Our data suggest that daptomycin could provoke the serious adverse effect and prolongation of hospitalization time. Hospital pharmacists must know possible drug adverse effects and establish reporting systems to contribute to an appropriate pharmacotherapy management.

**References and/or Acknowledgements** 

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