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BACKGROUND

 Acinetobacter baumannii has become an important hospital-acquired pathogen. With the rise in antibiotic resistance, tigecycline has been used frequently against multidrug-Acinetobacter baumannii resistant (MRAB).

RESULTS

• 21 patients were treated with tigecycline, with a mean age of 70.6 ± 17.8 years. 66.6% were men.

HOSPITAL ADMISSION SERVICE

PURPOSE

• To analyze the use of tigecycline after an outbreak of MRAB in a third level hospital.

MATERIAL AND METHODS

- Retrospective observational study performed from January to March 2017 in a general hospital of 330 beds.
- All patients treated with tigecycline during the study period were included.
- The adequacy of antibiotic treatment was analyzed, including the following variables:
 - Demographic



- STANDARD DOSE OF TIGECYCLINE: 12 patients (57.1%) (100 mg loading dose, followed by 50 mg every 12 hours)
 - HIGH DOSE OF TIGECYCLINE: 9 patients (42.9%) (200 mg loading dose, followed by 100 mg every 12 hours)

CLINICAL RESULTS

- Mean duration of treatment was 9.7 ± 6.2 days.
- In 23.8% of patients, tigecycline use was not indicated (colonization in 60%, or no culture available in 40%).

- Responsible service
- Antibiotic dosage
- Duration of treatment
- Sample for microbiological culture
- Indication of treatment
- Mortality during admission.
- Clinical data were obtained from computerized medical records (Selene®).

- Overall **mortality** was **61.9%**:
 - > Subgroup treated with standard dose showed a mortality of 58.4% (7 patients out of 12).
 - > Subgroup treated with high dose showed a mortality of 66.6% (6 patients out of 9).
- Economic expenditure on tigecycline during the study period was 43,000 euros.

CONCLUSIONS

• The use of tigecycline at high dose for MRAB infections is controversial, especially in patients with colonization. Outbreaks have a high economic and clinical impact, so that the evaluation before starting treatment could optimize economic resources.