SUCCESSFUL TREATMENT OF OSTEOMYELITIS CAUSED BY DIFFICULT-TO-TREAT RESISTANT *PSEUDOMONAS AERUGINOSA* WITH CEFIDEROCOL AS MONOTHERAPY: A CASE REPORT

Hospital Universitario de Navarra | Nafarroako Ospitale Unibertsitarioa

Rodríguez Esquíroz Andrea[1]; Moreno García Estela[2]; Sarobe Carricas Maite[1]

[1] Pharmacy department. University Hospital of Navarre, Pamplona, Spain

[2] Infectious Diseases department. University Hospital of Navarre, Pamplona, Spain

Servicio Navarro de Salud Osasunbidea

BACKGROUND AND IMPORTANCE

Cefiderocol is a new siderophore cephalosporin which effectively penetrates the outer cell membrane of gram-negative bacteria. Although several studies have demonstrated the efficacy of cefiderocol in the treatment of severe infections caused by multidrug-resistant gram-negative bacilli, current information on efficacy in osteoarticular infection is scarce.

AIM AND OBJECTIVES

We aimed to report a case of difficult-to-treat resistant *Pseudomonas aeruginosa* osteomyelitis successfully treated with cefiderocol for 6 weeks.

MATERIALS AND METHODS

64-year-old diabetic male: supracondylar amputation

- Multiple surgical debridement +
- Ciprofloxacin
- Piperacillin/ tazobactam
- Meropenem

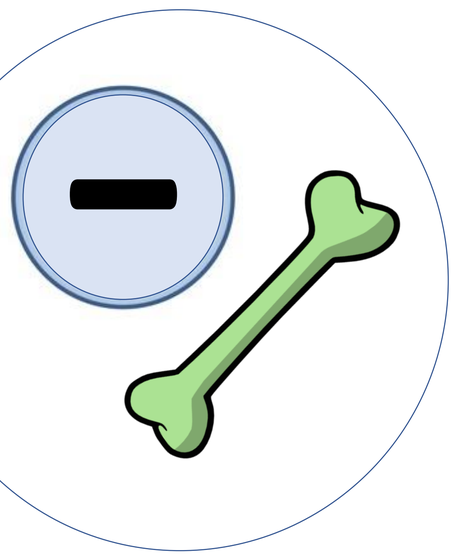
S: colistin, aminoglycosides, ceftolozane/tazobactam* and cefiderocol
* Not available

multidrug-resistant *P. aeruginosa* osteomyelitis

CEFIDEROCOL
2g/8h
3h infusion

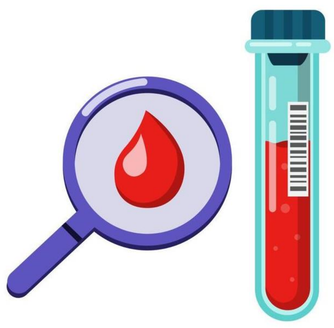
6 weeks (June-August 2021)
+ 4 surgical debridements

RESULTS



Negative swab cultures

Afebrile
No adverse effects
No infusion reactions
Pain-free



No leukopenia
No leukocytosis
No worsening renal function
↓inflammatory markers

No evidence of persistent or recurrent infection at weeks 6, 15 and 45

CONCLUSION AND RELEVANCE

- ✓ This case adds more experience to the scarce literature on the use of cefiderocol in *P. aeruginosa* osteomyelitis.
- ✓ Its success in the treatment of osteomyelitis suggests that this drug penetrates well in bone tissue and could be a good therapeutic option, in conjunction with surgical debridement.

4CPS-005
ATC code: J01