

Real-world experience of cefiderocol in bone and joint infections from the PROVE (retrospective cefiderocol chart review) study

Aurelien Dinh,¹ Stefano Verardi,² Stephen Marcella,³ Anne Santerre Henriksen²
¹Raymond Poincare Hospital, APHP, Garches, France; ²Shionogi B.V., London, UK;
³Shionogi Inc., Florham Park, NJ, USA



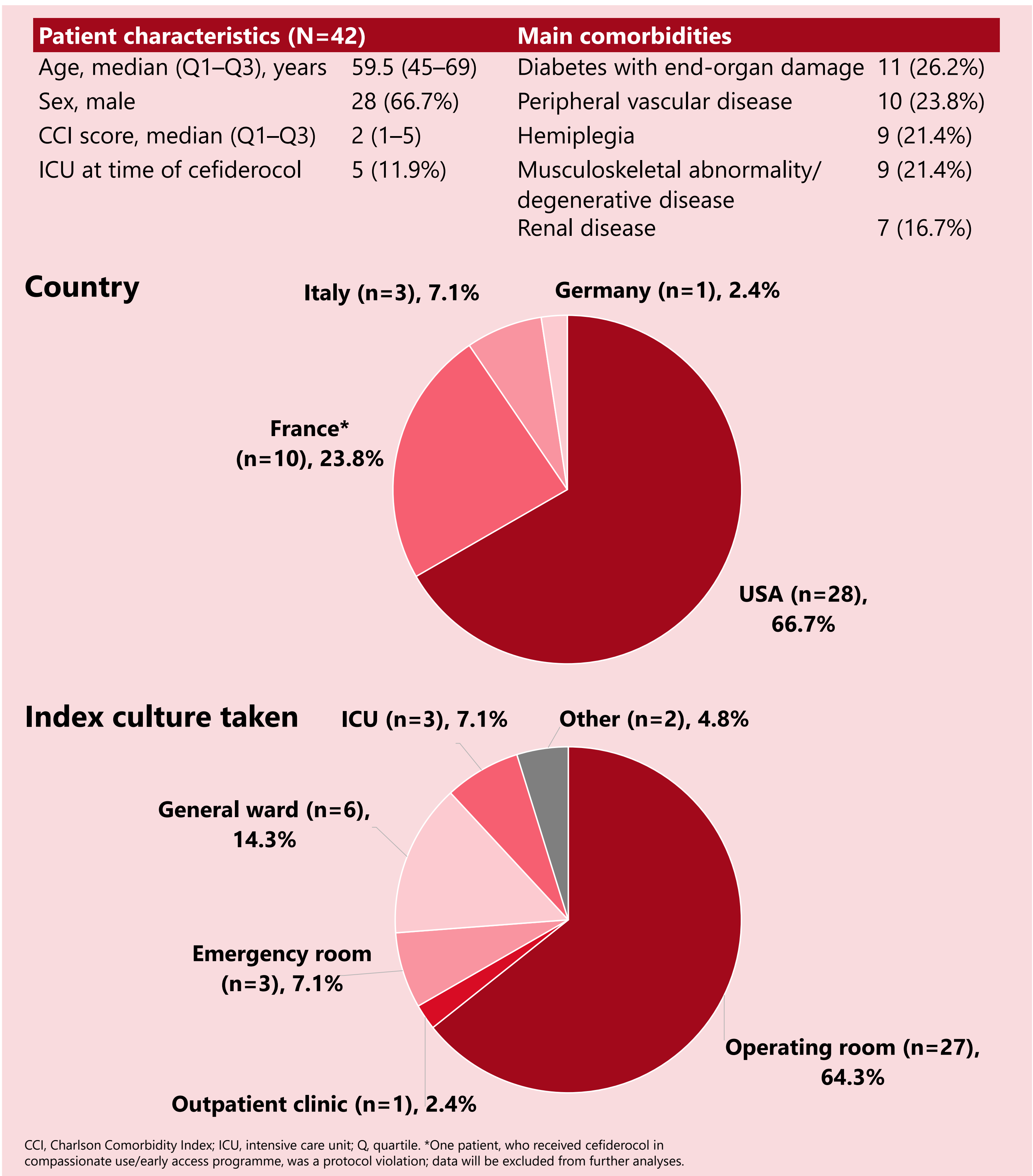
OBJECTIVES

We aimed to describe the characteristics and the outcomes of cefiderocol treatment in bone and joint infections caused by Gram-negative bacterial species among patients included in the ongoing observational PROVE study.

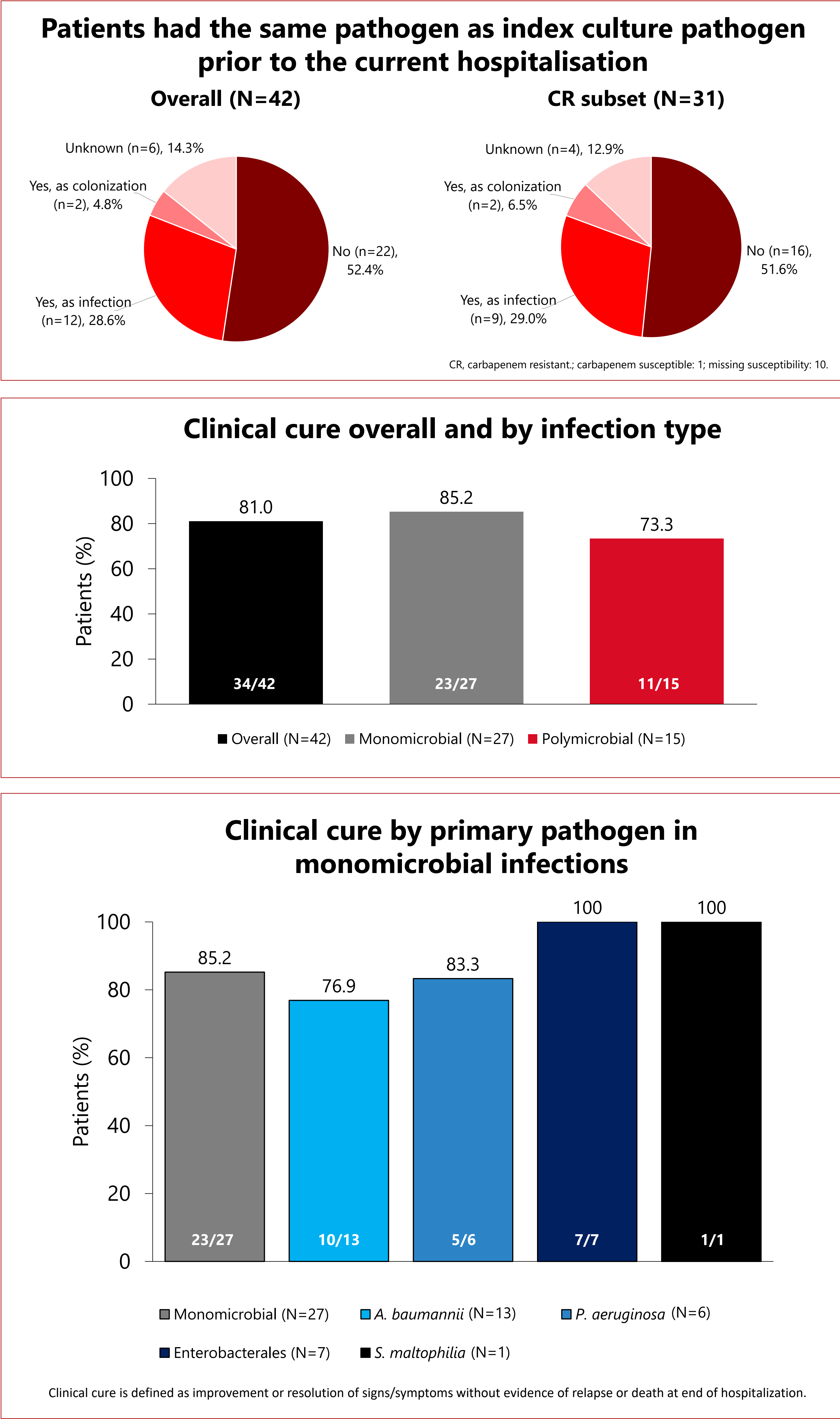
METHODS

Design: retrospective, observational, international study.
Inclusion criteria: adult hospitalised patients with bone and joint infections caused by Gram-negative pathogens, treated with cefiderocol consecutively for ≥72 hours (November 2020–March 2023).
Endpoints: patient and pathogen characteristics, hospitalisation course, antibiotic treatment patterns, clinical cure (clinical cure is defined as improvement or resolution of signs/symptoms without evidence of relapse or death at end of hospitalisation), and 14-day and 30-day all-cause mortality (ACM). Only descriptive statistics are used.

RESULTS



RESULTS CONT'D



Admission type (N=42)	n (%)
Emergency or urgent admission	23 (54.8)
Direct transfer from another medical care facility	7 (16.7)
Scheduled admission	11 (26.2)
Other	1 (2.4)
Hospitalisation course and cefiderocol use	Median (Q1–Q3)
Days from admission to index culture	3.0 (1–11)
Days from index culture to starting cefiderocol	5.0 (3–8)
Days in hospital	36.5 (22–64)
Days on cefiderocol	22.5 (14–39)
>21 days on cefiderocol, n (%)	22 (52.4%)
Adverse drug reactions, n (%) [*]	1 (2.4)
Serious adverse drug reactions, n(%) [^]	1 (2.4)

^{*}Urticarial rash; [^]Interstitial nephritis.

CONCLUSIONS

In this large cohort of patients, clinical outcomes suggest that cefiderocol is an effective treatment for bone and joint infections in patients with limited treatment options.

Index culture pathogen	N or N' (%)	30-day ACM n (%)
Overall	42 (100)	4 (9.5)
Monomicrobial	27 (64.3)	1 (3.7)
A. baumannii	13 (31.0)	1 (7.7)
P. aeruginosa	6 (14.3)	0
Enterobacterales	7 (16.7)	0
S. maltophilia	1 (2.4)	0
Polymicrobial [*]	15 (35.7)	3 (20.0)
A. baumannii/P. aeruginosa	2 (4.8)	1 (50.0)
A. baumannii/Enterobacterales	2 (4.8)	1 (50.0)
P. aeruginosa/Enterobacterales	2 (4.8)	0
Another other 2 pathogens [*]	5 (11.9)	1 (20.0)
Another other ≥3 pathogens [*]	4 (9.5)	0

N, total number of patients; N', number of patients in the category; ^{*}only Gram-negative species.
Owing to differential consent requirements between alive and deceased patients in certain sites, mortality may be overestimated in this dataset.

Acknowledgements

The study was funded by Shionogi. SV, SM, ASH are employees of Shionogi. Editorial support was provided by Highfield, Oxford, UK, and this support was funded by Shionogi.
Shionogi thanks all investigators and their institutions for their participation in the PROVE study.



Copies of this poster obtained through Quick Response (QR) Code are for personal use only and may not be reproduced without permission from ECCMID 2024 and the authors of the poster.