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Real-world experience of cefiderocol in France from the PROVE (retrospective cefiderocol chart review) study

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OBJECTIVES

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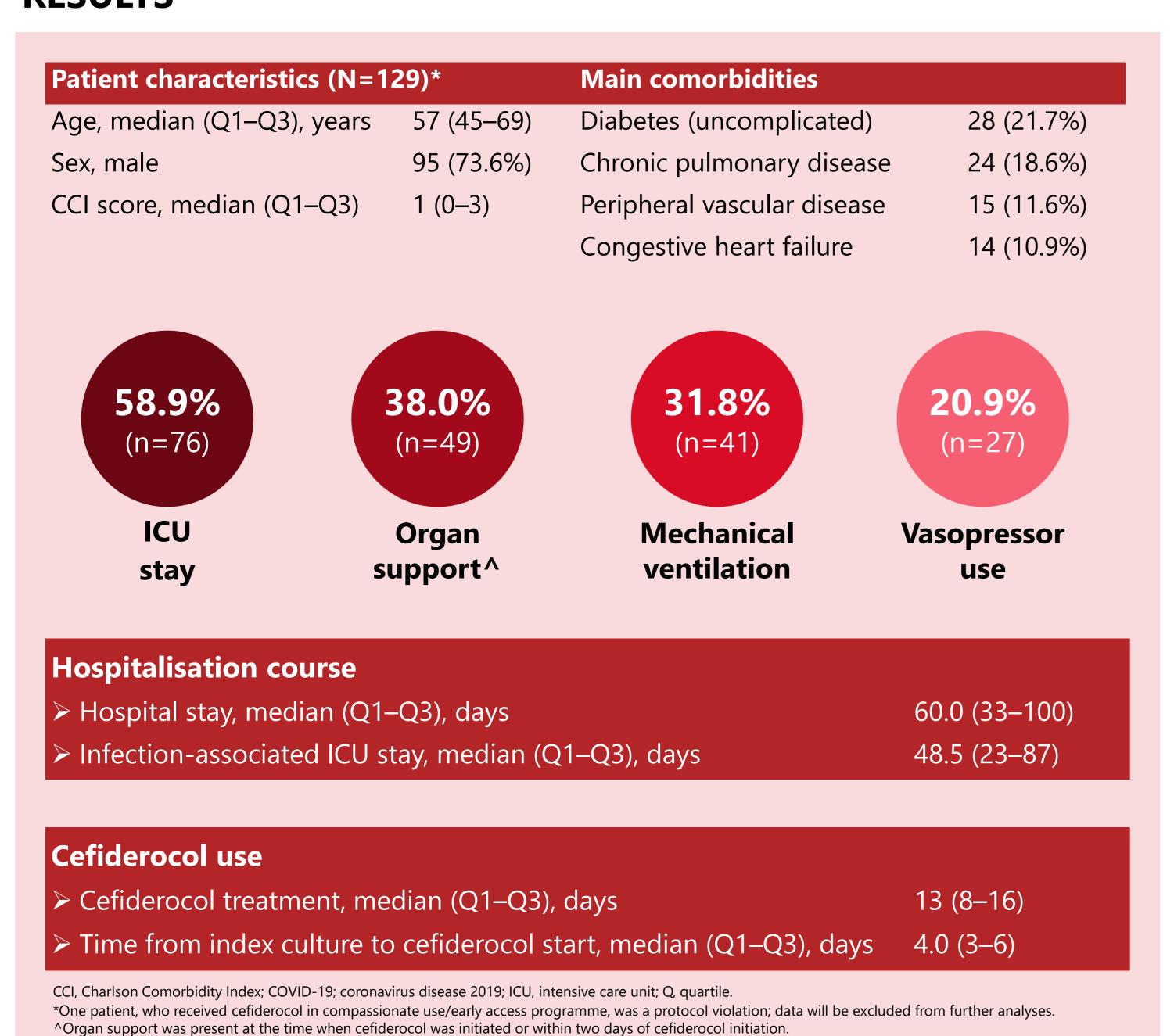
We aimed to describe usage of cefiderocol, post commercialisation, for the treatment of patients with Gram-negative bacterial infections from 10 French centres, who were included in the ongoing PROVE study.

METHODS

Design: ongoing, international, retrospective, medical chart review study. **Inclusion criteria**: adult hospitalised patients treated with cefiderocol consecutively for ≥72 hours (November 2020–June 2023).

Endpoints: patient and pathogen characteristics, hospitalisation course, antibiotic treatment patterns, clinical cure, and 14-day and 30-day all-cause mortality (ACM). Clinical cure was defined as resolution or improvement of signs/symptoms at the end of treatment (EOT), as judged by the physician; patients who died during therapy or had a relapse or reinfection due to the same pathogen after EOT during current hospitalisation were considered as clinical failure. ACM included patients who died during their hospitalisation.

RESULTS

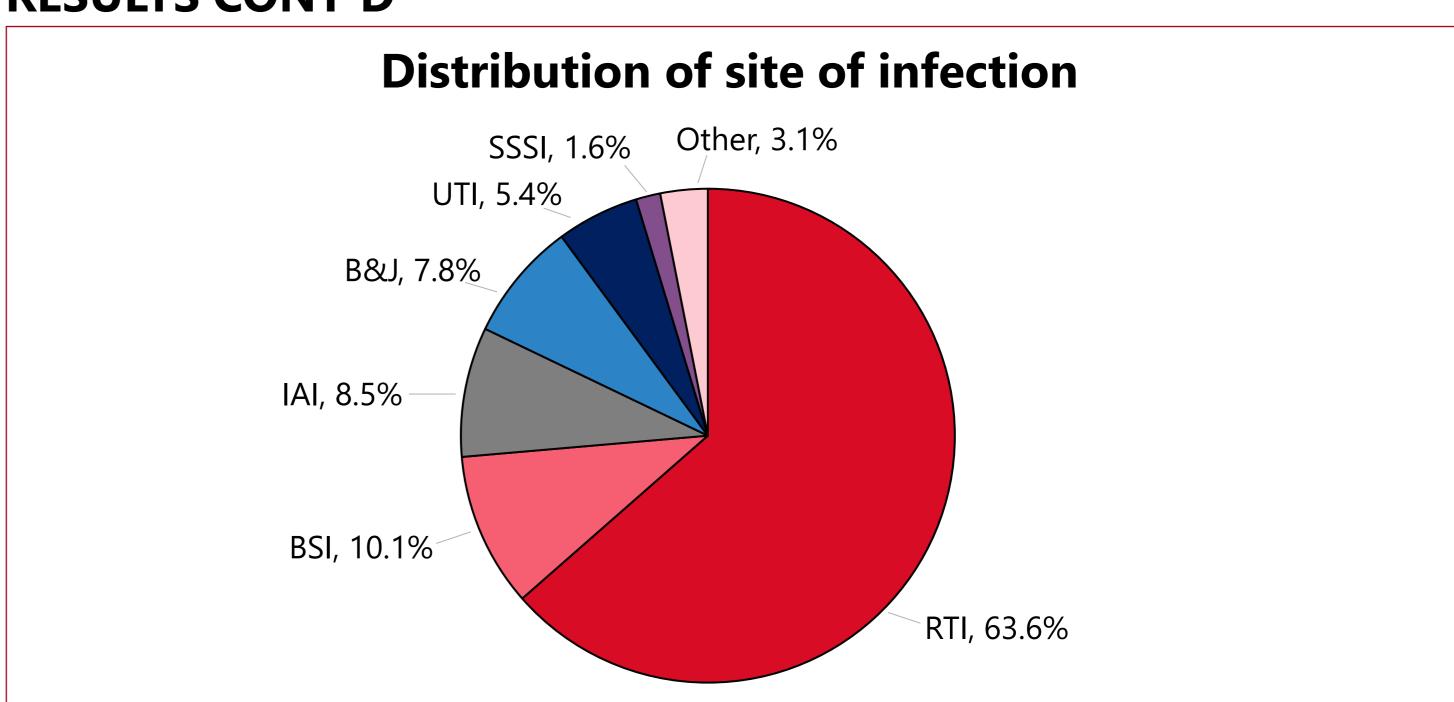


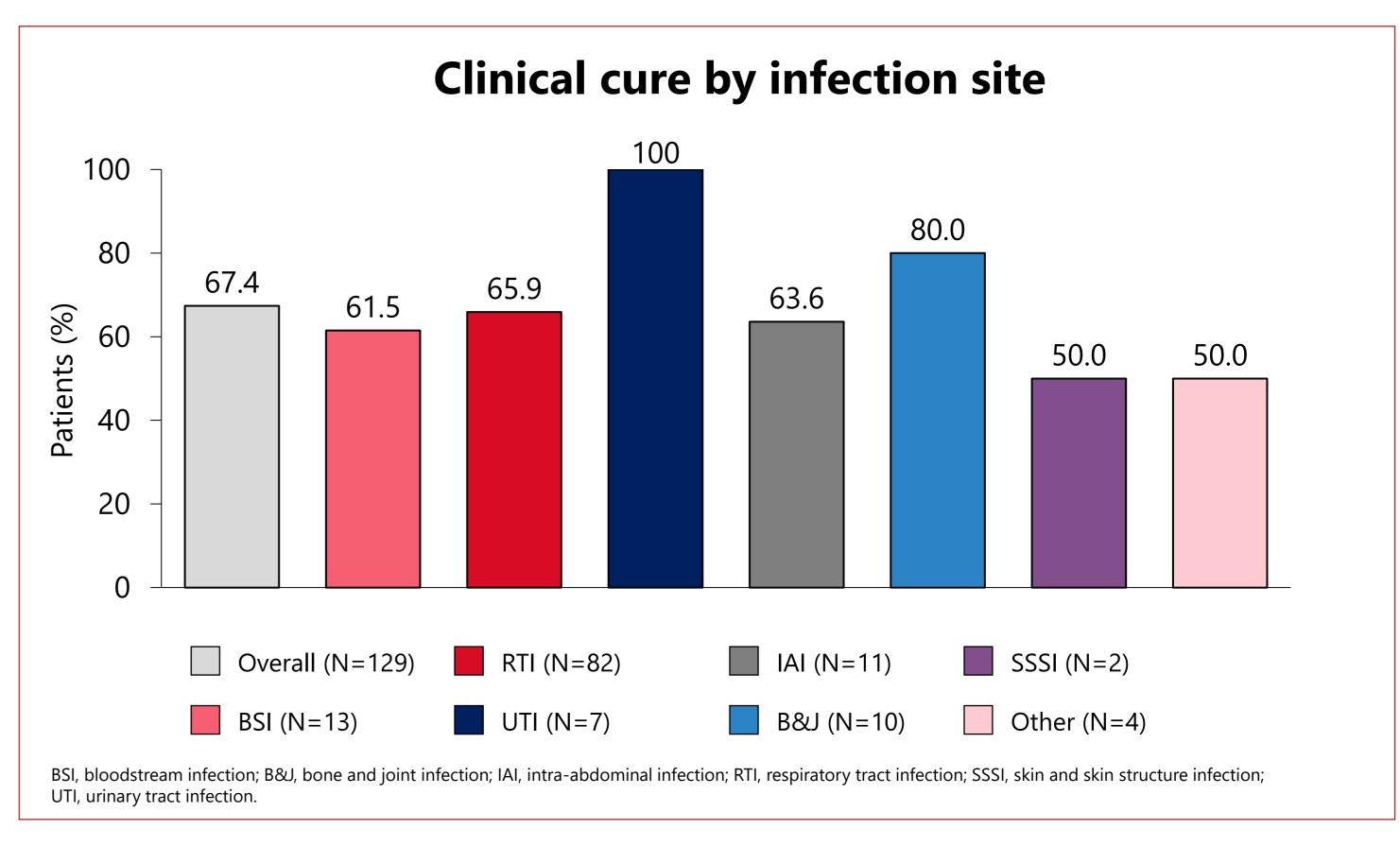
		14-day ACM	30-day ACM
Index culture pathogen	n (%)	n (%)	n (%)
Monomicrobial Gram-negative infection	94 (72.9)	14 (14.9)	18 (19.1)
P. aeruginosa	59 (45.7)	6 (10.2)	8 (13.6)
Enterobacterales	13 (10.1)	1 (7.7)	2 (15.4)
A. baumannii	13 (10.1)	3 (23.1)	3 (23.1)
S. maltophilia	6 (4.7)	3 (-\$)	4 (-\$)
Other*	3 (2.3)	1 (-\$)	1 (-\$)
Polymicrobial Gram-negative infection	35 (27.1)	3 (8.6)	7 (20.0)
*Burkholderia cepacia complex (2), Achromobacter spp. (1). \$% is not calculated with patient numbers <10.			

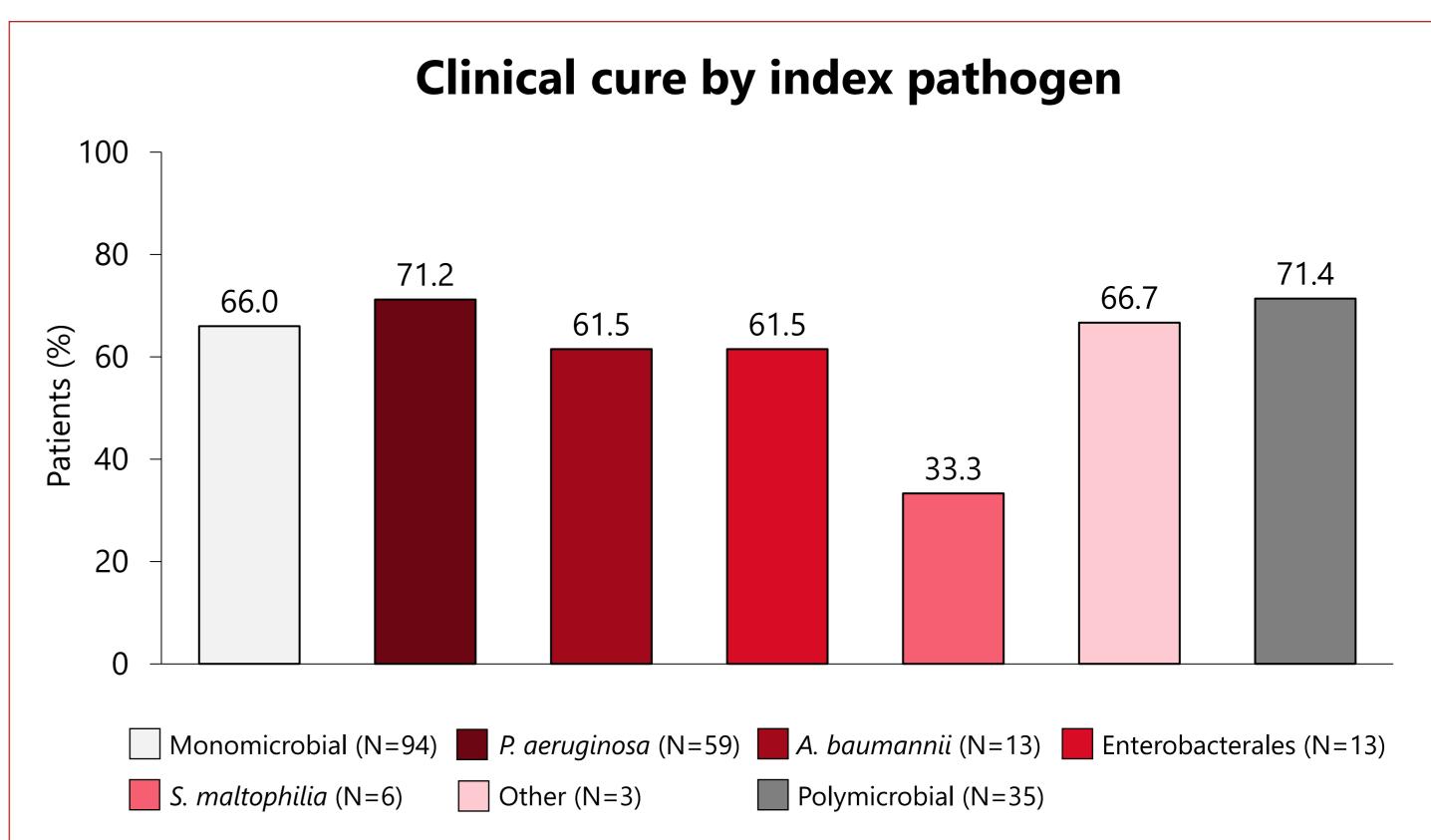
CONCLUSIONS

- This large cohort of real-world evidence post commercialisation of cefiderocol in France showed that cefiderocol was used primarily to treat respiratory infections and non-fermenter pathogens, including mainly *Pseudomonas* spp.
- A large proportion of patients responded to cefiderocol treatment and mortality rates overall were approximately 15% and 20% at days 14 and 30.

RESULTS CONT'D







	14-day ACM	30-day ACM
Primary infection site*	n (%)	n (%)
Overall (N=129)	17 (13.2)	25 (19.4)
BSI (N=13) [†]	2 (15.4)	3 (23.1)
RTI (N=82)	13 (15.9)	18 (22.0)
UTI (N=7)	0 (0)	0 (0)
IAI (N=11)	2 (18.2)	4 (36.4)
B&J (N=10)	0 (0)	0 (0)
SSSI (N=2)	0 (0)	0 (0)
Other (N=4) [†]	0 (0)	0 (0)

*Driving the use of cefiderocol (includes monomicrobial and polymicrobial infections).
†There were no BSI or 'Other' polymicrobial infections.

BSI, bloodstream infection; B&J, bone and joint infection; IAI, intra-abdominal infection; RTI, respiratory tract infection; SSSI, skin and

skin structure infection; UTI, urinary tract infection.

Owing to differential consent requirements between alive and deceased patients, mortality may be overestimated in this dataset by as much as 2.3%.

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