

Bacteraemia in neutropaenic patients admitted to the intensive care unit with septic shock: aetiology, clinical characteristics, outcome and impact of multidrug resistance on mortality.

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Herrera F¹, Torres D¹, Suchowiercha N², Mañez N³, Laborde A⁴, Pereyra ML⁵, Tula L⁶, Berruezo L⁷, Benso J⁸, Nenna A⁹, Racioppi A¹⁰, Roccia Rossi I², Barcán L³, González Ibañez ML⁴, Gago R⁵, Lambert S⁶, Fernández A⁷, Fernández V⁸, Soto V⁹, Alderete M¹⁰, Grippo N¹, Reynaldi M², Visús M^{3,8}, Pennini M⁴, Azula N⁵, Blanco M⁶, Carbone R⁷, Chaves ML⁹, Valle S¹⁰, Pasterán F¹¹, Corso A¹¹, Rapoport M¹¹, Carena A¹.

1. CEMIC, 2. HIGA Gral. San Martín , 3. Hospital Italiano de Buenos Aires, 4. FUNDALEU, 5. Hospital Universitario Austral, 6. Hospital de Alta Complejidad en Red El Cruce, 7. HIGA Rodolfo Rossi, 8. Hospital Italiano de San Justo, 9. Hospital Municipal de Oncología Marie Curie, 10. Instituto Alexander Fleming, 11. INEI – ANLIS Dr. Carlos Malbrán on behalf of ROCAS Study Group - Argentina

Background

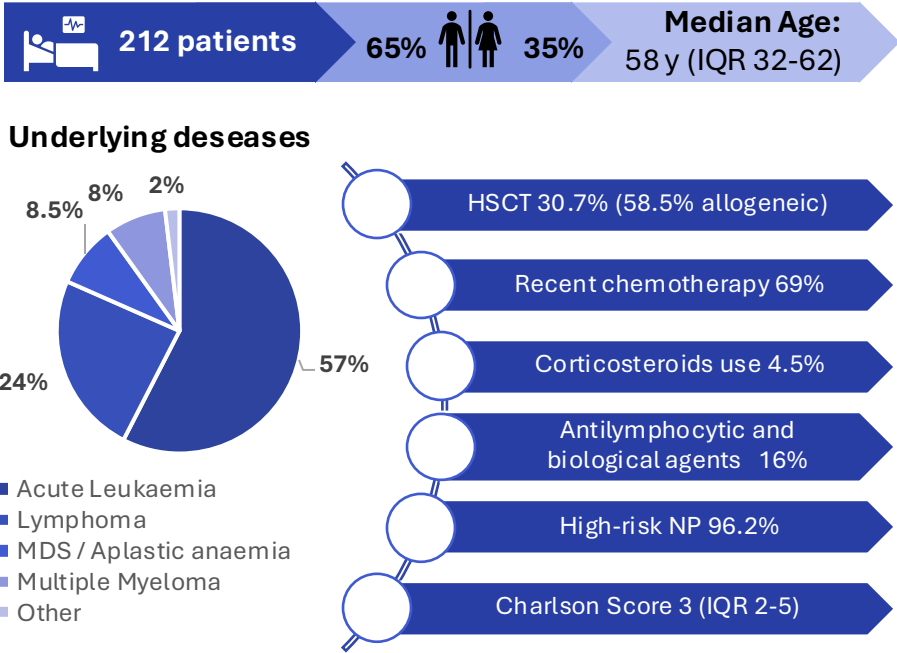
Episodes of bacteraemia in neutropenic patients (NP) presenting with septic shock have a high mortality rate. Multidrug-resistant gram-negative bacilli (MDR-GNB) may reduce survival.

Methods

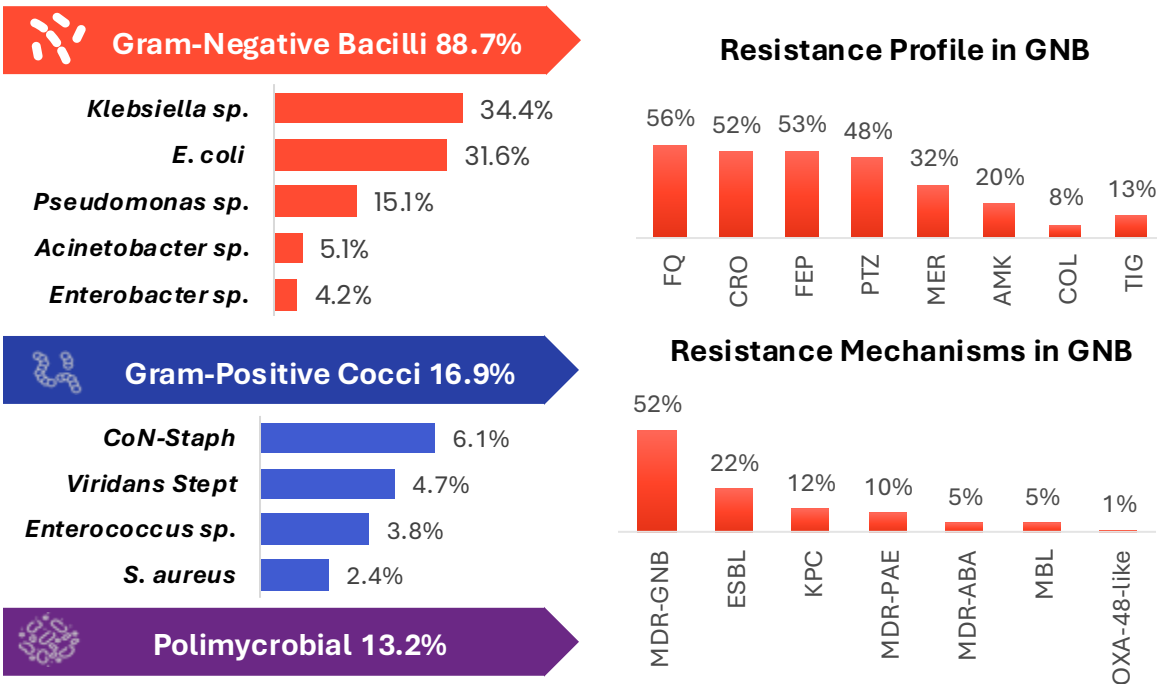
Prospective, multicentre study in 10 hospitals in Argentina (Jun 2014 – Dec 2023).
Inclusion criteria: All first episodes of bacteraemia in adult NP with hematologic malignancies (HM) and hematopoietic stem cell transplantation (HSCT) admitted to the intensive care unit (ICU) with septic shock.
Aetiology, clinical characteristics, and outcome were described.
A multivariate logistic regression analysis identified independent risk factors associated with 30-day mortality (RFM).

RESULTS

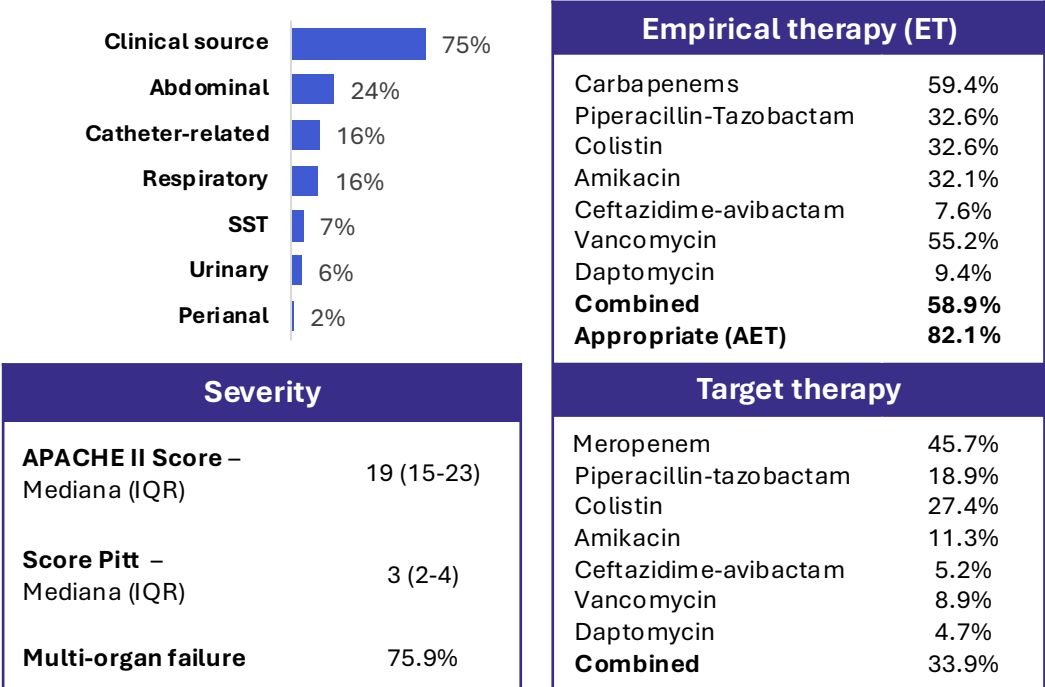
Baseline Characteristics



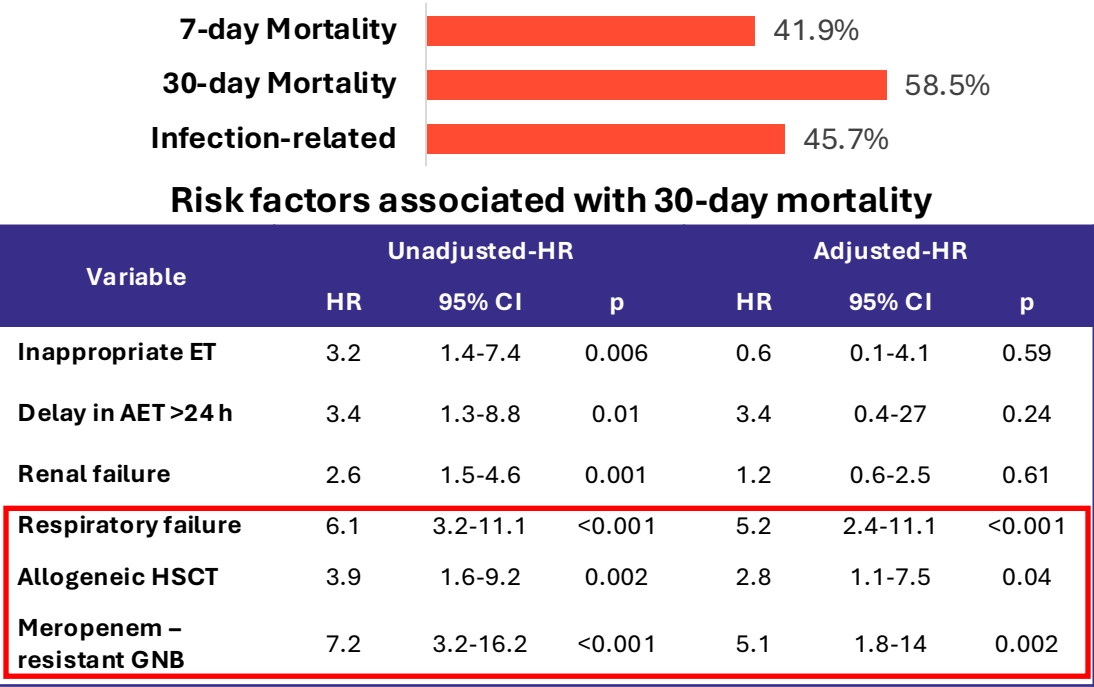
Aetiology



Clinical features and Treatment



Outcomes and RFM



Abbreviation: FQ: fluoroquinolones, CRO: ceftriaxone, FEP: cefepime, PTZ: piperacillin-tazobactam, MER: meropenem, AMG: aminoglycosides, COL: colistin, TIG: tigecycline, MDR-GNB: multidrug-resistant gram-negative bacilli, ESBL: extended-spectrum betalacamasases, MBL: metallo-betalactamase, MDR-ABA: multidrug-resistant *A. baumannii*

CONCLUSION

MDR-GNB was the leading cause of bacteraemia in NP admitted to the ICU with septic shock. The presence of meropenem-resistant GNB significantly increased the risk of death. These findings highlight the importance of the identification of patients at risk and their appropriate treatment. Moreover, an antimicrobial stewardship program is crucial to reduce antibiotic resistance.