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Summary

# AN INNOVATIVE INTERPROFESSIONAL APPROACH TO THERAPEUTIC DRUG MONITORING OF CARBAPENEMS IMPROVES QUALITY OF CARE IN THE TREATMENT OF PATIENTS WITH ACUTE-ON-CHRONIC LIVER FAILURE ON THE INTENSIVE CARE UNIT

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**An interprofessional therapeutic drug monitoring approach for meropenem in ICU patients with acute-on-chronic liver failure improved dose targeting and reduced antibiotic consumption by 10%.**

KEY POINTS

- Initial therapeutic drug monitoring showed 84.0% of patients exceeded target meropenem serum concentrations, with only 16.0% within the designated range.
- An interprofessional team of physicians, hospital pharmacists, and nurses implemented meropenem TDM using continuous infusion after loading dose and twice-weekly HPLC monitoring.
- By Week 3, the proportion of patients achieving target serum concentrations increased from 16.0% to 50%, with mean levels decreasing from 20.9 ± 9.6 mg/L to 11.9 ± 2.3 mg/L.
- Meropenem consumption decreased from 42.1 to 37.9 RDD/100 patient days, representing a 10.0% reduction in application density.
- The authors conclude that this collaborative approach enhanced dosing accuracy and patient safety in complex ICU settings with ACLF patients.

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