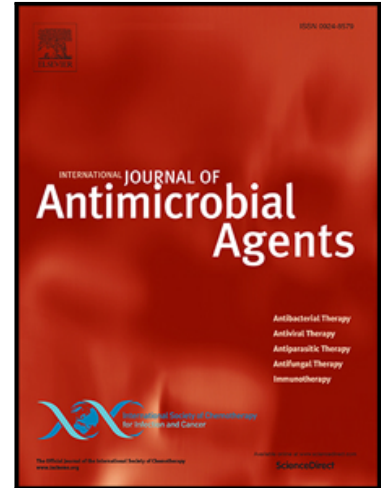


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Predictive performance of a gentamicin population pharmacokinetic model in two Western populations of critically ill patients

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Highlights

- The earlier developed gentamicin model for adult critically ill patients is valid for use in the AMC ICU population but not in the CHU Nîmes ICU population. This may have been caused by other gentamicin pharmacokinetics as other population PK parameters estimates were found.
- Prior validation of population PK models with data from the population for which the model is intended to be used is recommended.
- The earlier identified association between low albumin concentrations and an increased central volume of distribution of gentamicin in ICU patients was confirmed. This association implies that hypoalbuminaemia may result in a C_{max} below the targeted range (<15 mg/L).

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