Therapeutic monitoring of antimicrobial agents in pediatrics. Review based on Latin American experiences

Monitorización terapéutica de antimicrobianos en pediatría. Revisión de la experiencia latinoamericana

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© 2018, Sociedad Chilena de Infectología. All rights reserved. This review summarizes recommendations of therapeutic monitoring of three antimicrobials based in regional data: vancomycin, amikacin and voriconazole in pediatric population. Regional evidence agrees with international literature regarding the requirement of higher daily doses than 40 mg/kg/day of vancomycin, as well as with the possibility of use one daily doses of amikacin and to recommend higher doses of voriconazole compared to the initially recommended doses of 8 mg/kg/day. Local data on the pharmacokinetic/pharmacodynamic behavior of various antimicrobials in pediatrics are of great value for dosing adjustment in our pediatric population. More studies in therapeutic monitoring in the use of antimicrobials in pediatrics should be performed in order to allow the generation of adequate treatment guidelines for this age group.