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Shaping the pharmacokinetic landscape for renally cleared antibiotics in obesity: Studies in adults, adolescents and children
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Stellingen behorend bij het proefschrift

Shaping the pharmacokinetic landscape for renally cleared antibiotics in obesity

Studies in adults, adolescents and children

1. Obesity results in a weight-related increase in clearance of aminoglycosides and vancomycin – **this thesis**
2. The idea that volume of distribution in obese individuals increases for lipophilic drugs, but not for hydrophilic drugs, is a major oversimplification – **this thesis**
3. Analysing prospectively collected rich data together with real-world clinical data is an efficient and valuable approach to get to dose recommendations for the obese patients we see in daily clinical practice – **this thesis**
4. Lean body weight as a dosing parameter should not be advocated unless one verifies that the underlying model fits well for both men and women – **this thesis**
5. De-indexing commonly used creatinine-based estimates for glomerular filtration rate deserves more attention as a method to predict clearance of renally cleared drugs in obesity
6. The lack of an external validation in well-conducted pharmacokinetic studies should not be used as an excuse to ignore the results for implementation in clinical practice
7. Pharmacokinetic studies in special populations can reveal previously unknown differences between apparently similar drugs
8. Without a well-established pharmacokinetic/pharmacodynamic target, one should aim for an exposure in obese patients similar to non-obese patients who receive the standard dose
9. An example of unclear communication is when pharmacometricians quote George Box's 'all models are wrong, some are useful' in front of a nontechnical audience: they will only hear that your model is 'wrong', so why should they listen to you, why are you talking about it? – Adapted from **Peter Bonate**, *Clinical Pharmacology & Therapeutics* 2014;96(4):416-7
10. Plurality should not be posited without necessity – **William of Ockham**
11. De wereld was soep en het denken meestal een vork: tot smakelijk eten leidde dat zelden (Onno Quist in *De Ontdekking van de Hemel*) – **Harry Mulisch**
12. Alleen sukkels hebben het druk – **NRC Handelsblad 26-05-2015**