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Universiteit Leiden



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Title: The influence of morbid obesity on the pharmacokinetics and pharmacodynamics of drugs in adolescents and adults : focus on propofol and nadroparin

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Propositions belonging to the thesis

The influence of morbid obesity on the pharmacokinetics and pharmacodynamics of drugs in adolescents and adults.

Focus on propofol and nadroparin.

1. For propofol-remifentanyl anaesthesia in morbidly obese patients, propofol infusion rates should be based on adjusted body weight defined as:
 $70 \text{ kg} * (\text{total body weight}/70 \text{ kg})^{0.72}$. *This thesis*
2. Prediction of propofol clearance in adults and children requires consideration of both total body weight and age as covariates. *This thesis*
3. Lean body weight should be used as scalar for individualized dosing of low-molecular-weight heparines in morbidly obese patients. *This thesis*
4. The complexity of thrombosis prophylaxis in morbidly obese patients necessitates the formation of a multidisciplinary expert opinion group. *This thesis*
5. Obese individuals do not differ from non-obese individuals by being 'larger' but by having excess body fat, and therefore the allometry law cannot be used for obese individuals in advance. *DJ Eleveld et al. Clin Pharmacokinet. 2011;50(11):751-3*
6. A prospective clinical study is the final step towards the implementation of novel dosing algorithms.
7. Collaboration between the anaesthesiologists, surgeons and clinical pharmacists is crucial when performing clinical pharmacology studies in morbidly obese patients.
8. As an expert regarding the safe use of drugs, the clinical pharmacist plays an important role in the application of new algorithms for the individualization of dosing regimens in clinical practice.
9. NONMEM has in common with a hospital organization that both should be encouraged to think more outside of the box.
10. Art should be available to everyone and it should be incorporated into everyday items and goods of common consumption and utility. *A Mucha*
11. The best way to predict the future is to create it. *PF Drucker*
12. Seen from the moon we are all the same size. *Multatuli*