



PRESENTATION OF THE PKPD WORKGROUP

On behalf of the members of the PKPD workgroup
Isabel Spriet
SBIMC - BVIKM symposium 23 04 2015

Background

1) Last decade: a significant amount of Belgian research in antimicrobial PKPD

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[The blind spot in high-dose tigecycline pharmacokinetics in critically ill patients: membrane adsorption during continuous extracorporeal treatment.](#)
Honore PM, Jacobs R, De Waele E, Van Gorp V, Spapen HD. Crit Care. 2015 Jan 28;19:24. doi: 10.1186/s13054-015-0744-9. No abstract available. PMID: 25730477 **Free PMC Article**
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[β-Lactam pharmacokinetics during extracorporeal membrane oxygenation therapy: A case-control study.](#)
Donadello K, Antonucci E, Cristallini S, Roberts JA, Beumier M, Scolletta S, **Jacobs F**, Rondelet B, de Backer D, Vincent JL, Taccone FS. Int J Antimicrob Agents. 2015 Mar;45(3):278-82. doi: 10.1016/j.ijantimicag.2014.11.005. Epub 2014 Dec 8. PMID: 25542059
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[Temocillin \(6 g daily\) in critically ill patients: continuous infusion versus three times daily administration.](#)
Laterre PF, Wittebole X, Van de Velde S, Muller AE, Mouton JW, Carry S, Tulkens PM, Dugernier T. J Antimicrob Chemother. 2015 Mar;70(3):891-8. doi: 10.1093/jac/dku465. Epub 2014 Nov 27. PMID: 25433006
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Background

2) Same PKPD issues in Belgian hospitals

- reference interval for vancomycin trough levels?
- continuous vs. intermittent infusion for vancomycin
- benefit of routine TDM for betalactams?
- ...

3) Need for collaboration

- Research in subpopulations: need for multicentre studies in order to meet sufficient sample size
 - Analysis methods (e.g. for meropenem) already up and running in several Belgian centres
 - Sharing experience in PK calculation and modeling
- 

Setup of PKPD workgroup

- Idea to setup a PKPD workgroup
- Common topic is 'antimicrobial PKPD research' → workgroup part of the BVIKM-SBIMC
- Multidisciplinary group
 - Microbiologists
 - Infectious disease specialists
 - Intensivists
 - Nephrologists
 - Pharmacists
 - ...
- Aim is to meet 3 à 4 times a year, meeting place is Brussels

Objectives of the PKPD workgroup

QUALITY CONTROL ANALYSIS METHODS

- external (belgian) validation of analysis methods (e.g. for betalactam)

PRACTICE GUIDELINES

- develop practice guidelines
 - e.g. TDM of betalactams: which targets? time of sampling and reference interval? algorithm for dose adjustments?
 - Publication of guidelines on SBIMC-BVIKM website?

ORGANISATION OF PKPD EVENTS

- PKPD symposium every 2 year? – in collaboration with SBIMC-BVIKM board

COLLABORATIVE RESEARCH

- define research needs and priorities
 - setup common research projects – multicentre studies
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Contact

Antimicrobial PKPD related questions and ideas are warmly welcomed!

- Please send these to the SBIMC-BVIKM board via Mme. Elise Brisart (elise.brisart@erasme.ulb.ac.be)
- New members are welcome - max. 2à3 members per hospital