



Antibiotic PK/PD in ICU clinical practice

Programme

1. Basics of antimicrobial use

- Principles of PK/PD- the basics
- PK/PD changes in the critically ill patient
- How to read a PK/PD paper?

2. PK/PD Optimisation

- Continuous vs. extended infusion: why and when?
- Antibiotic bolus: when and how?
- When to increase the dose?

3. PK/PD in special situations

- AKI and RRT
- ECMO and liver support systems
- AMR
- Obesity

4. Outcomes of PK/PD Interventions

- Target non-attainment
- Therapeutic drug monitoring
- Population pharmacokinetic modelling

5. Applying PK/PD concepts: How to use...

- Betalactams - Focus on Piperacillin/tazobactam
- Carbapenems- Focus on Meropenem
- Glycopeptides - Focus on Vancomycin
- Aminoglycosides
- Colistin
- Antifungals - Focus on fluconazole and voriconazole

6. What's next?

Challenges and future perspectives in PK/PD

7. Closure

CME Exam and Final remarks

Course Directors:

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This Master Class is endorsed by the Infection Section, ESICM

For more information and registration, please visit:

<https://www.esicm.org/education/courses-2/lives-mc-inf-antibiotic-pk-pd-icu/>