

Pharmacokinetics: career opportunities in non-clinical development

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Disclaimer

- ▶ The opinions expressed in this presentation are the author's own and do not reflect the view of Dstl (Defence, Science and Technology Laboratory), the Ministry of Defence, or the government of the United Kingdom of Great Britain and Northern Ireland.

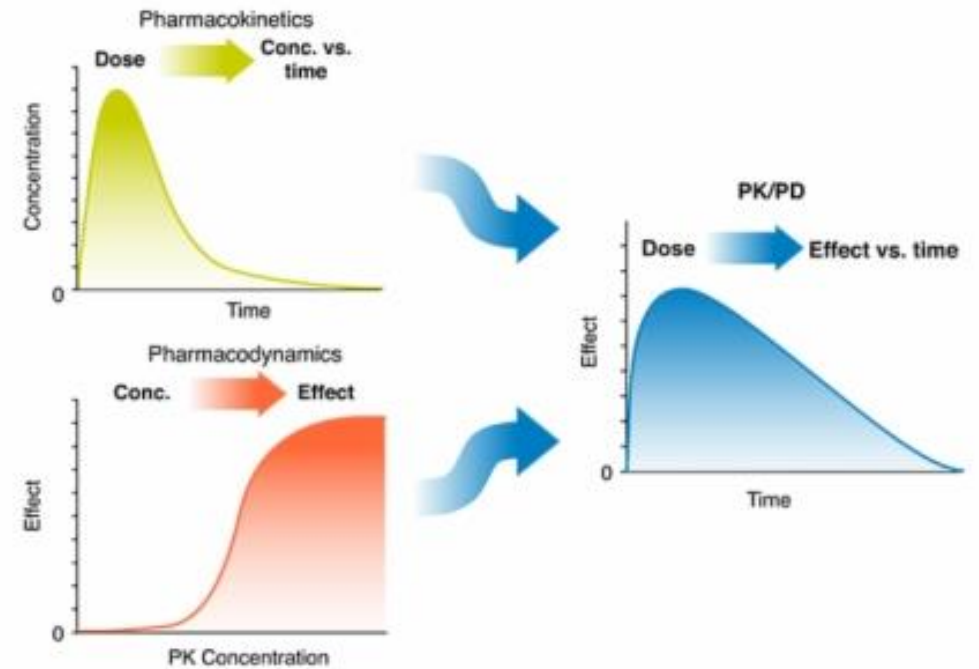
Preclinical Pharmacokinetics

- ▶ In silico
- ▶ Prediction of major sites of metabolism
- ▶ Pharmacokinetic modelling
- ▶ Pharmacodynamic modelling
- ▶ Pharmacokinetic prediction using PBPK modelling

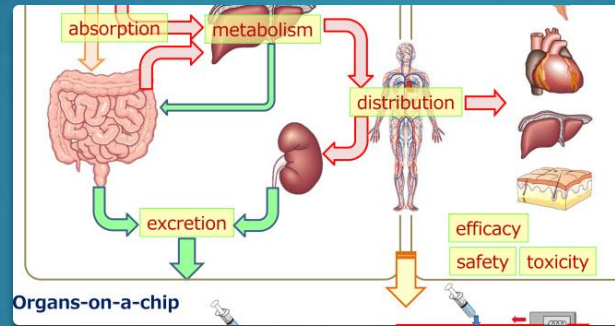
PK in Action | PK/PD Modeling

PK/PD Models Combine

PK/PD Relationship and Drug Exposure



Do not take my word for it!



Companies-CROs

<https://www.cypotex.com/admepk>

<https://www.admescope.com/>

<https://www.covance.com/services/analytical-services/drug-metabolism-and-pharmacokinetic-services.html>

Universities

<https://www.capkr.manchester.ac.uk/>

The Centre for Applied Pharmacokinetic research (CAPKR) is a consortium of academic researchers at The University of Manchester and nine industrial pharmaceutical companies.

Companies-Modellers

<https://www.certara.com/>

Home of Phoenix™ PK/PD and/or Simcyp™ PBPK Simulator software platforms, used by top 100 Pharma companies and the US FDA and EMA.

What do non-
clinical
pharmacokinetic
studies require?

- ▶ **YOU!**
- ▶ **Graduates in**
- ▶ **Analytical chemistry**
- ▶ **Biology**
- ▶ **Biochemistry**
- ▶ **Pharmacy**
- ▶ **Biotechnology**
- ▶ **Mathematics**
- ▶ **Physics**

So thankyou for listening!

▶ Any Questions?