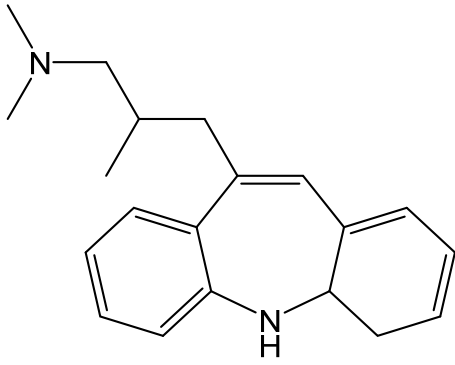
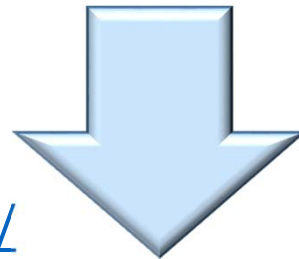
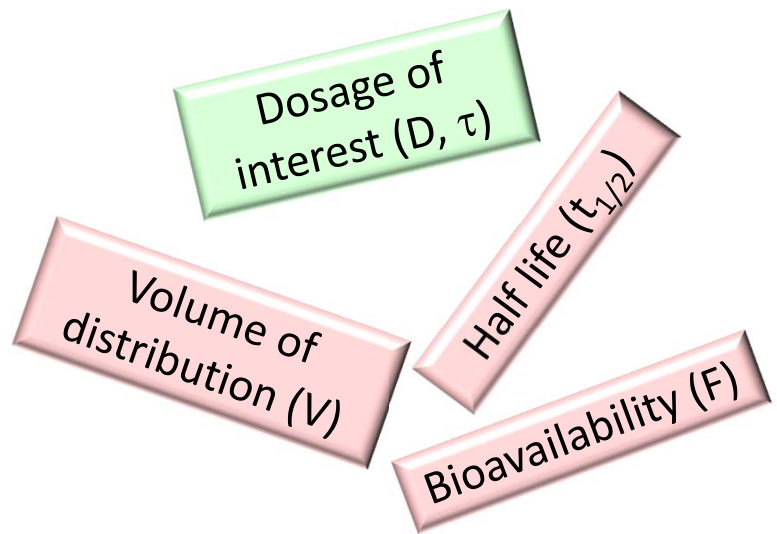


Simulate plasma concentration-time curves

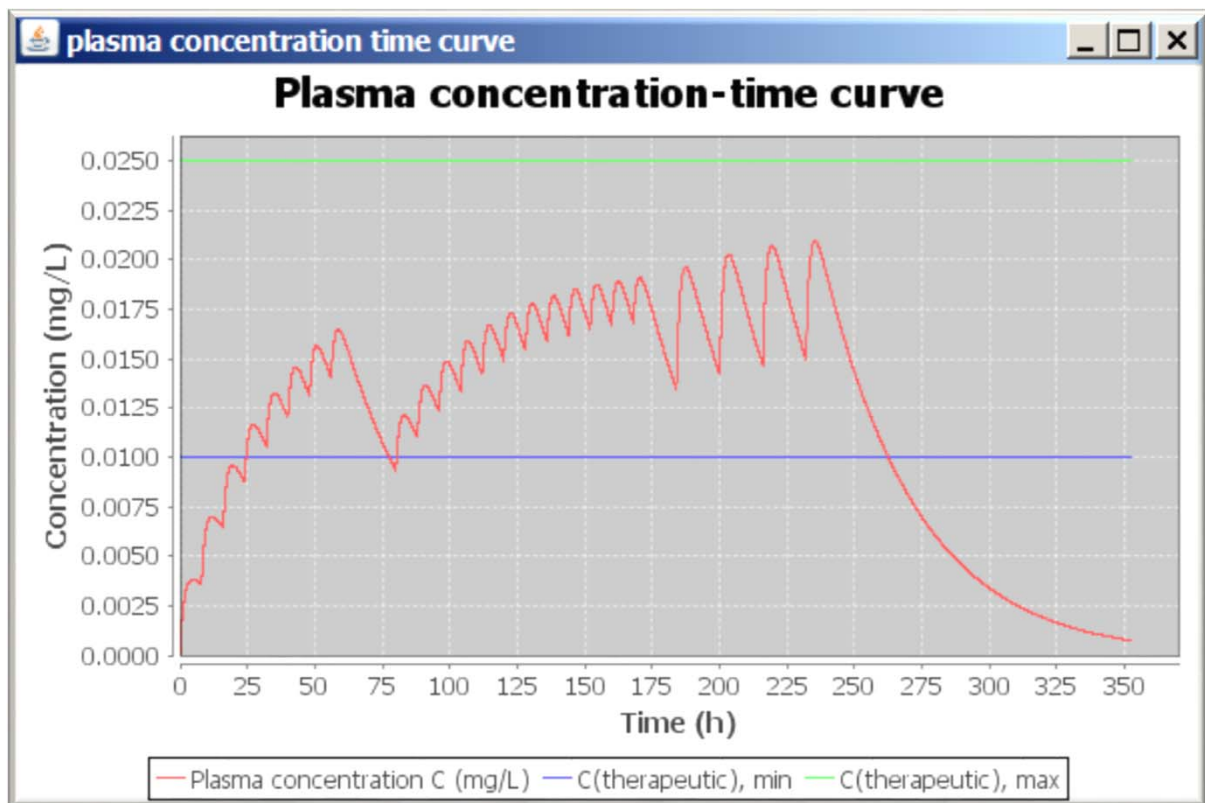


Drug



Online tool

<http://www.biopharmacy.ethz.ch/>



Online tool <http://www.biopharmacy.ethz.ch/> to **simulate drug plasma concentration-time curves**

PharmaCalc v02

PharmaCalc v02 2 comp., e.v.

Example Choose a drug

Sponsor a drug entry

Hypothetical loading dose or 1. dose (mg) 10

Subsequent doses (mg) 10

Bioavailability (-) 1

Infusion rate (mg/h) 10

Css,max, i.v. (mg/L) 0.344

CL (mL/min) 202.17

Loading dose (mg) 14.45

Apply hypothetical loading dose

Draw curve, calculate above params

Resolution in time

Propagate interval and dose from above to 2.-24. dose

Therapeutic range (mg/L) 0.075 to 0.2

Enter individual intervals, doses	Interval (h), dose (mg)	Interval (h), dose (mg)
2.	8.0 10.0	13. 8.0 10.0
3.	8.0 10.0	14. 8.0 10.0
4.	8.0 10.0	15. 8.0 10.0
5.	8.0 10.0	16. 8.0 10.0
6.	8.0 10.0	17. 8.0 10.0
7.	32 10.0	18. 8.0 10.0
8.	8.0 10.0	19. 8.0 10.0
9.	8.0 10.0	20. 8.0 10.0
10.	8.0 10.0	21. 8.0 10.0
11.	8.0 10.0	22. 8.0 10.0
12.	8.0 10.0	23. 8.0 10.0
		24. 8.0 10.0

© ETH Zürich, Stefanie D. Krämer
www.pharma.ethz.ch/institute_groups/biopharmacy

Choose your own

- compartment model
- route of application
- pharmacokinetic parameters
- doses and dose intervals

Or choose a drug from the **drug library** *

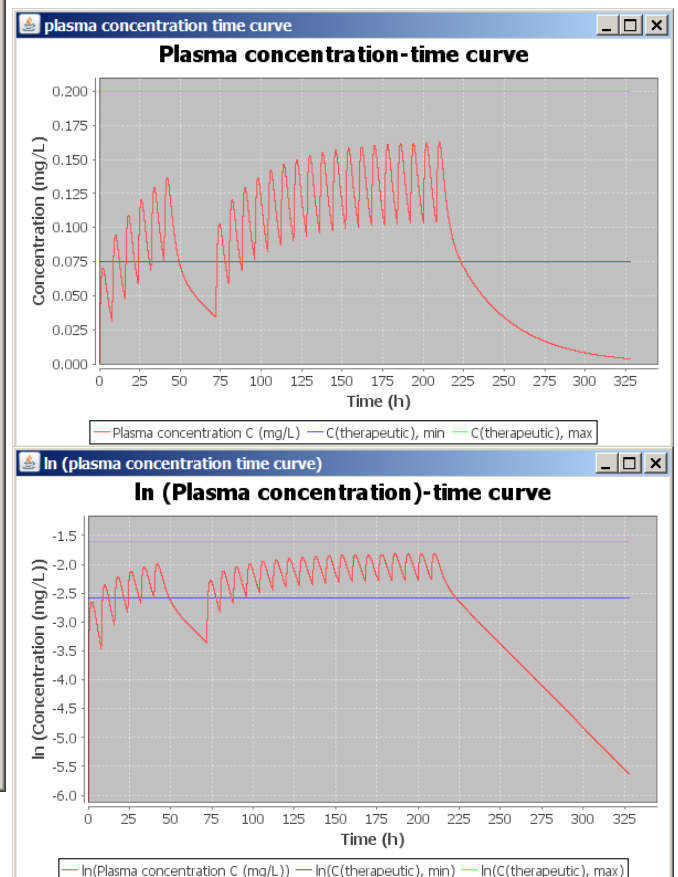
Draw plasma-concentration time curve of

- single dose
- multiple dosing with individual doses and intervals
- multiple dosing with loading dose
- therapeutic range
- linear and semi-logarithmic

Calculate

- clearance
- hypothetical loading dose
- estimate steady state concentration

* You may sponsor library entries (see below).



To sponsor an entry in the drug library:

Contact skraemer@pharma.ethz.ch, indicate the drug(s) and if not available in the public domain the PK parameters: bioavailability, volume(s) of distribution, terminal (distribution, absorption) half life(s), a typical dose and a typical dosage interval. Suggested fare: 500 Euro per drug (one drug) or less in case of several drugs.