



Simulated population:
Age/ weight/height/
creatinine clearance
(CrCL)



Dose_{guidelines} :

5 mg/kg once a day for GCV and
 $7 \cdot \text{BSA} \cdot \text{CrCL}$ for VGCV, (max 900mg)
Simulation of full PK profiles at Steady State
(10341 GCV, 10644 VGCV)

$\text{AUC}_{0-24\text{h,ref}}$ calculated using
trapezoidal rule



Data splitting
75/25 %

**ML algorithms to predict $\text{AUC}_{0-24\text{h,ref}}$ with 2
concentration times**



Evaluation performances of the algorithm selected in
the test set and with real patients



Comparison performances of the algorithm selected to
Bayesian estimations from population
pharmacokinetic models

Simulated patients

Simulated patients and real patients