

PK43: Objective

- Characterize absorption of Compound X by both the buccal and GI routes, with different ka for each
- Model one-compartment elimination
- · Find estimates for:
 - ka1 = rapid absorption in buccal cavity
 - ka2 = delayed absorption via GI tract
 - V = volume of distribution
 - K = elimination rate for compound X
 - Frapid = fraction absorbed via the rapid buccal route
 - 1 frapid = fraction absorbed via GI route
 - Tlag = lag time to reach the GI absorption site

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PK43: Summary

- Fit 1-comp PK with multiple absorption routes + lag time
- · Build model graphically
- Derive initial estimates
- · Fit the model to the data
- · Review results



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PML School: Materials

- Each model will be made available in Certara Forum
 - Link to live webinar and presentation slides
 <u>https://support.certara.com/forums/forum/34-pml-school/</u>
 - Model text as file download
 Can be imported into Phoenix model object to be run on a new dataset
 - Questions and comments can be exchanged in the Forum
 Topic 4: Multiple Absorption Routes using the Phoenix Graphical Model

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