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Laboratory result not fitting patient

Why doesn't the "blue line" cross through the lab result?

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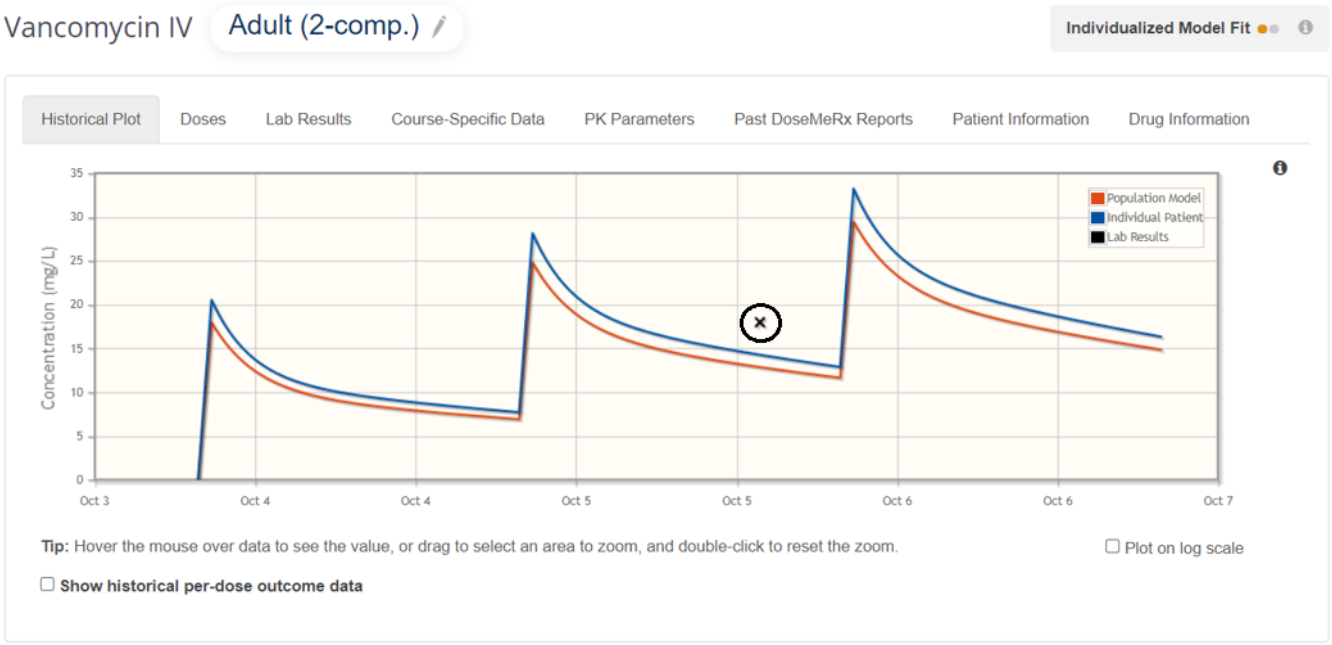
A single laboratory result (e.g. drug level) is all that DoseMeRx needs to generate an individualized historical plot curve (represented by the blue line). In order to create this curve, DoseMeRx's Bayesian dosing methodology evaluates each result, as indicated by the black "x" on the graph, in terms of the "likelihood" of the observed level.

When a laboratory result is recorded for the patient, if the level observed is considered to be highly likely, the blue line will be close or may even cross through the recorded level on the graph. However, if the result is a far outlier in the range of probable results based on the population drug model, DoseMeRx will assume that there has been an error with the result and will weight it minimally when building the model for your individual patient. Essentially, the further any laboratory result is from what DoseMeRx considers likely, the less impact that result will have on the individual model. The graphic below illustrates this concept.

DoseMeRx is able to learn over time. Each subsequent laboratory result recorded increases DoseMeRx's interpretation of any outlying data. In addition, the model fit indicator displayed can also assist with the interpretation the information that is being displayed in the Historical Plot.



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