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Initial Dosing Using the Population Model

How do I start an initial course of a drug for a new patient in DoseMeRx (web-based users)?



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Updated in the last 15 minutes

Once you've logged into DoseMeRx, you will land on the patient dashboard screen. Users will select [Add patient](#) and enter the requested information and a drug model for the course.

Upon selecting Save Patient, you will be brought to the historical plot. If a serum creatinine value is available, we encourage you to enter it on the Lab Results tab, but you can move forward with no doses or lab results by selecting calculate dose. If you do not enter a serum creatinine, a default serum creatinine of 69.5 $\mu\text{mol/L}$ (0.786 mg/dL) for females and 84 $\mu\text{mol/L}$ (0.95 mg/dL) for males will be used in the model calculations.

Having no historic doses or lab results, DoseMeRx will use the [population](#) model to provide a dose recommendation for this patient. This approach utilizes all information that we currently know about the patient (height, weight, age, sex, and serum creatinine if applicable) and runs this information against the population model and DoseMeRx algorithm to produce the Population Model-Based Dose.

Patients > Demo, Test (1234567) > Vancomycin IV - Adult (1-comp.) > Dosing Report

Name	Demo, Test	eCrCl	93.2 mL/min (Cockcroft-Gault)
DOB	Dec 13, 1989 (32 years)	Most Recent Dose	None
Weight	61 kg	Most Recent Lab Result	SeCr 0.80 mg/dl (Dec 12th 2021, 19:10)
Dosing Weight	TBW: 61 kg	Indication	Non-severe Infection
Height	167 cm	Trust in Assay Results	Normal

Vancomycin IV **Adult (1-comp.)** /

✓ Population Model-Based Dose ⓘ

1250 mg over 1.5 hours every 12 hours for 3 days ⓘ

Target: AUC24: 450 mcg.h/mL

Predicted: AUC24: 413.8 mcg.h/mL

Peak 27.6 mcg/mL

Trough 9.6 mcg/mL

AUC24 413.8 mcg.h/mL

☒ Plot

Guideline Dose ⓘ

1500 mg once, then 1000 mg every 12 hours for 3 doses

Peak 22.7 mcg/mL

Trough 7.5 mcg/mL

AUC24 332 mcg.h/mL

☒ Plot

Label Dose ⓘ

750 mg every 12 hours for one day

Peak 15.1 mcg/mL

Trough 5.2 mcg/mL

AUC24 224.7 mcg.h/mL

☐ Plot

By default, multiple doses will be provided for this dose recommendation, but a single loading dose is able to be simulated in the customize panel.

To do this, use either the Target tab or Dose tab, set the number of doses to 1, and select calculate. DoseMeRx will provide a loading dose and the associated predicted outcomes.

✓ Customize

Target Dose View Outcome

DoseMeRx can calculate a dose based upon previously-processed pathology results. Please review against the guideline dose and consider the clinical implications carefully.

Target AUC24

AUC24 450 mg.h/L

Infusion Length 1.5 hours

Dosing Interval 12 hours

Number of Doses 1 doses

Next Dose At 2021-08-03 19:10

Note: The next dose can only be calculated from Aug 3 2021, 19:10 to Aug 7 2021, 00:00.

Calculate

✓ Customize

Target Dose View Outcome

Dose 2000 mg

Infusion Length 2 hours

Dosing Interval 12 hours

Number of Doses 1 doses

Next Dose At 2021-08-03 19:10

Note: The next dose can only be calculated from Aug 3 2021, 19:10 to Aug 7 2021, 00:00.

Reset Dose to Calculate

Hint:

Drug model settings like the number of doses and days of dosing might have to be adjusted by either your team's administrative users or DoseMeRx customer experience staff to enable this functionally. Please contact us at any time to confirm you have this feature enabled.

Helpful FAQs

For more information, check out these DoseMeRx Help documents.

- [Population vs Individualized Models](#)
- [How does DoseMeRx "learn" over time?](#)

Did this answer your question?



doseme-rx.com

