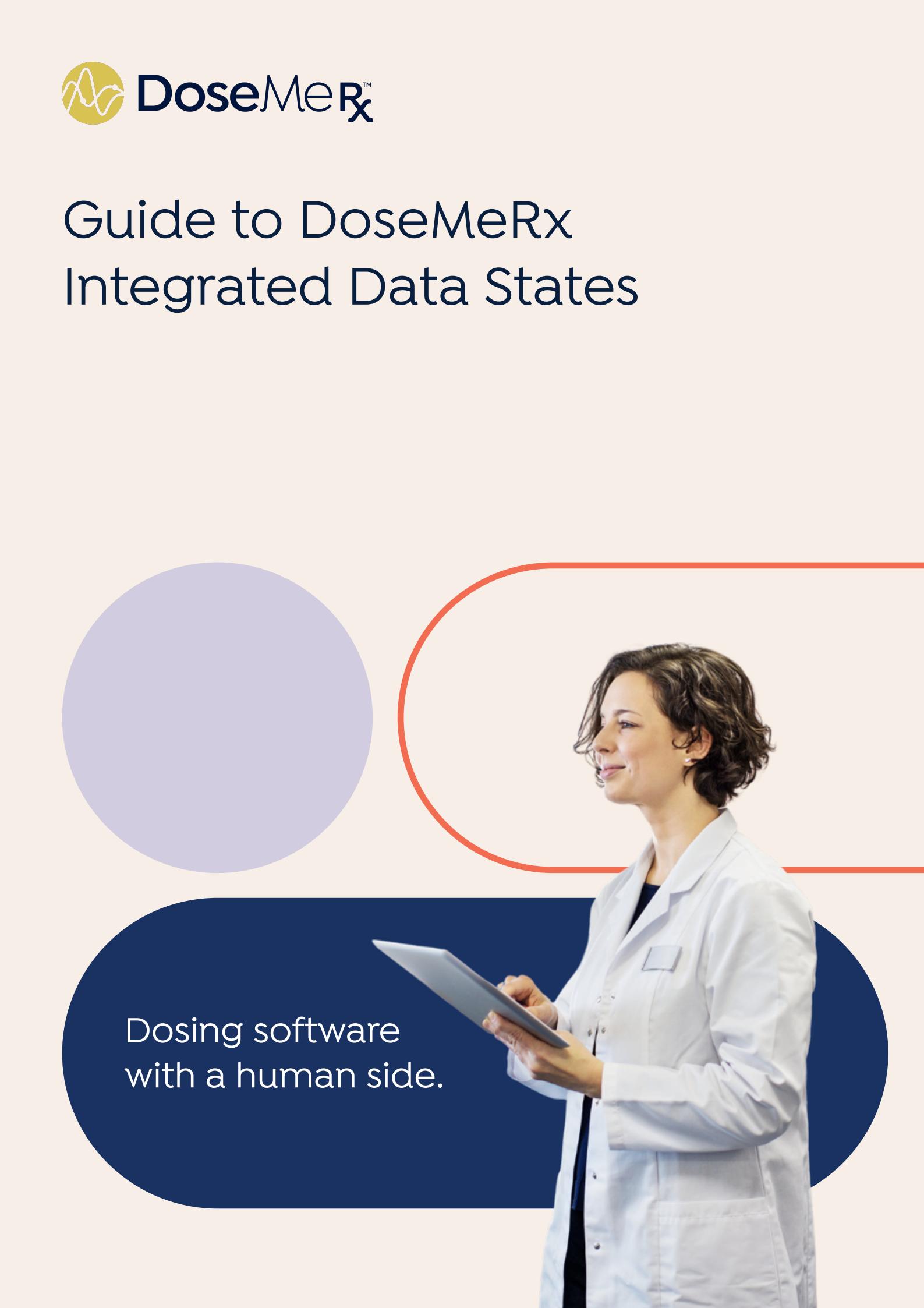




Guide to DoseMeRx Integrated Data States

The background of the page features several overlapping circles. A large light purple circle is positioned on the left side. A red circle, which contains a portrait of a smiling woman in a white lab coat holding a tablet, is centered on the right. Below these, a large dark blue circle covers the bottom half of the page. The woman in the red circle is looking towards the right, and the overall composition suggests a professional medical or scientific setting.

Dosing software
with a human side.

Guide to DoseMeRx Integrated Data States

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Data Types

There are two **types** of data that we will refer to in this document, and expand on below:

- Patient Demographic Data
- Course Data

Patient Demographic Data

Patient demographic data is what provides parameters around the patient themselves, and will be displayed in the 'Patient Information Header' at the top of the page.

Patient Demographic Data includes:

- Age (Date of Birth)
- Sex
- Weight
- Height

With patient demographic data, we will use the EHR as the source of truth. That means every time DoseMeRx is launched, patient demographic data will be reset to the latest valid values recorded in the EHR. The one exception to this is when there is no EHR data recorded for a particular field.

DoseMeRx will check the EHR for patient demographic data. If there is no value received from the EHR then we will continue to display the manually entered value – so you do not need to reenter it every time. However, if the EHR is sending a value, any manual edits to patient demographic data inside DoseMeRx will be reset to the latest valid EHR values.

Note: *Dosing Weight* observations (if provided) will be prioritized over other types of weight values such as *Measured Weight*.

Data Types

Course Data

Course data is what makes up the course history, and will be displayed in the 'Recorded Course Data' panel on the course page.

Course Data includes:

- Doses
- Observations (i.e., Drug Level, Serum Creatinine etc.)

For course data, any edits or manually entered data will be saved inside DoseMeRx across sessions and across users.

We update existing course data records originally sourced from your EHR every time DoseMeRx is launched, unless they have been manually edited inside DoseMeRx.

If a record has been edited then it will stay that way, exactly as it was edited, even if the record is updated in the EHR.

Note: If a record is marked with a red indicator (because it has been manually added or edited), it may not match your current EHR data.

Please make sure to review any of these data records, and update them if required.

Data Sources

DoseMeRx supports data from two different **sources**:

- Data automatically read directly from your EHR
- Data that you manually add in DoseMeRx

Read from your EHR

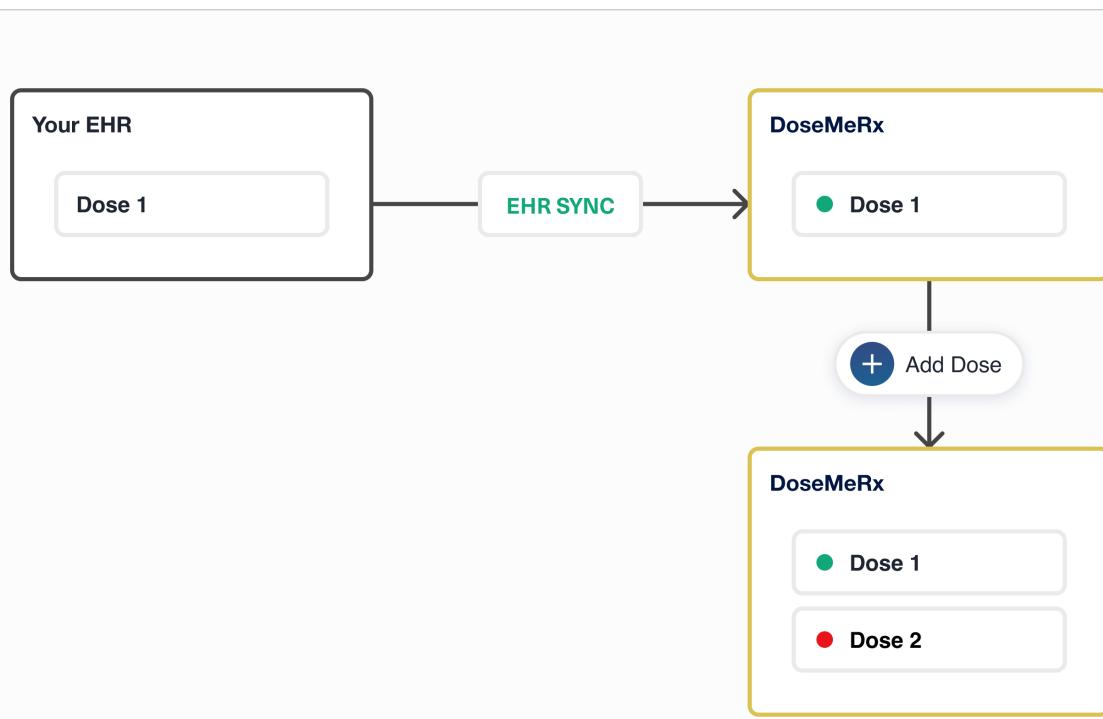
On launch, DoseMeRx will attempt to communicate with your EHR and read the latest patient demographic data, as well as recorded course data.

For recorded course data, DoseMeRx will search for doses that have been administered to the patient in the last 28 days. Doses that are retrieved are grouped into courses based on the drug and your hospital settings. Once courses have been determined, DoseMeRx then searches for recorded observations (drug levels, serum creatinine) and includes them into courses based on the time of the first and last dose in each course.

Manually Added

You can manually create a course, add all types of course data (doses, observations), and add any patient demographic data that hasn't been read from the EHR (patient weight, height, or date of birth).

Any manually created course, or manually added/edited course data records in DoseMeRx, will not be written back to your EHR.



Data Handling

Visual Indicators

DoseMeRx uses visual indicators to show the state of patient demographic and course data.

- Synced with EHR

Applies to course data that was obtained from your EHR. You will see a green indicator next to the course data records (doses, observations) which match the latest version of course data read from your EHR.

- Edited or Manually Added

A red indicator is used to show when a record does not match the latest EHR data DoseMeRx has retrieved. You will see the red indicator next to patient demographic data or recorded course data point that has been manually added, as well as any EHR data that has been edited inside DoseMeRx.

- Excluded

Applies to course data that has been excluded from calculations.

Course data can be excluded manually by a user, or may be automatically excluded if the data received is unsupported or invalid (e.g. unknown units, non-numerical amount values).

Excluded records will still show in the recorded course data table, however they will appear grayed out and display the gray bar icon.

Any manually excluded data can be re-included at any time by the user (see the 'Excluding Data' section of this document). However, automatically excluded data cannot be re-included, and will need to be manually recreated with the appropriate values to be used in calculations.

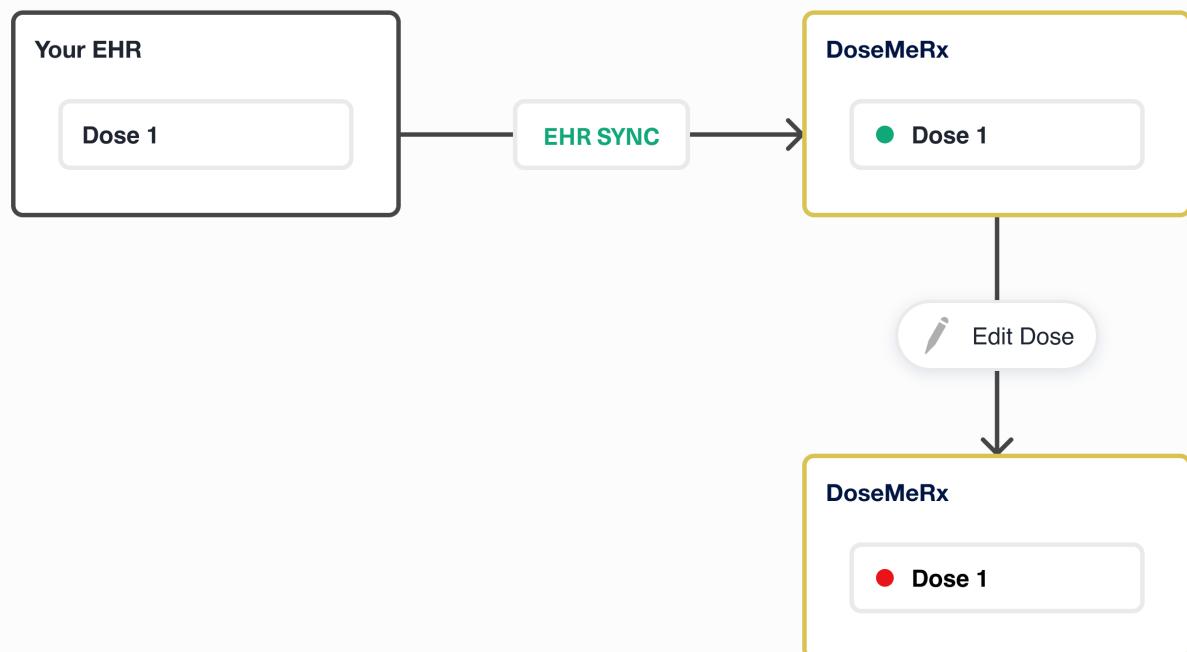
Data Handling

Editing

You can “edit” EHR data in DoseMeRx (both course data and patient demographic data).

Patient demographic data that has been edited will display a red indicator to show it does not match the latest EHR record retrieved. Every time DoseMeRx is launched, any edited patient demographic data will be reset to the latest valid value received from the EHR. If there is no EHR data recorded for that particular field, then the manually added value will be retained.

Course data that is edited will be saved inside DoseMeRx as an updated record, and display a red indicator to show it does not match the latest EHR records retrieved. Every time you come back into DoseMeRx any edited course data will remain as edited.



Data Handling

Excluding

Course data can be excluded from calculations; which means it will not be included in the historical dosing profile, and will not be factored in next dose calculations/recommendations. Both EHR and manually added data can be excluded. Any course record that has been excluded from calculations will be saved that way, so when the next time DoseMeRx is launched it will remain excluded.

Recorded Course Data

Type	Time	Amount	Infusion	AUC _T	AUC ₂₄
Dose	Oct 27 2021, 16:21	1250 mg	2.0 h	242.6	484.3
Level	Oct 28 2021, 15:51	14.9 mg/L	—	—	—
Dose	Oct 28 2021, 16:07	1250 mg	2.0 h	242.6	484.3
Dose	Oct 29 2021, 16:13	1250 mg	2.0 h	242.6 ¹	484.3 ¹
SeCr	Oct 29 2021, 19:51	1.4 mg/dL	—	—	—

Add Dose Add Observation

AUC Peak/Trough

mg.h/L calculated by DoseMeRx

Edit this observation

Exclude from calculations

To exclude a dose or observation in the recorded course data table, click the more options  icon, and select the 'exclude from calculations' option.

Recorded Course Data

Type	Time	Amount	Infusion	AUC _T	AUC ₂₄
Dose	Oct 27 2021, 16:21	1250 mg	2.0 h	242.6	484.3
Level	Oct 28 2021, 15:51	14.9 mg/L 	—	—	—
Dose	Oct 28 2021, 16:07	1250 mg	2.0 h	242.6	484.3
Dose	Oct 29 2021, 16:13	1250 mg	2.0 h	242.6 ¹	484.3 ¹
SeCr	Oct 29 2021, 19:51	1.4 mg/dL	—	—	—

Add Dose Add Observation

AUC Peak/Trough

mg.h/L calculated by DoseMeRx

Excluded records will still show in the recorded course data table, however they will appear grayed out and display a  icon.

You can also re-include a manually excluded record. Simply click the more options  icon next to the excluded record, and select the 'Include in calculations' option.

Recorded Course Data

Type	Time	Amount	Infusion	AUC _T	AUC ₂₄
Dose	Oct 27 2021, 16:21	1250 mg	2.0 h	242.6	484.3
Level	Oct 28 2021, 15:51	14.9 mg/L 	—	—	—
Dose	Oct 28 2021, 16:07	1250 mg	2.0 h	242.6	484.3
Dose	Oct 29 2021, 16:13	1250 mg	2.0 h	242.6 ¹	484.3 ¹
SeCr	Oct 29 2021, 19:51	1.4 mg/dL	—	—	—

Add Dose Add Observation

AUC Peak/Trough

mg.h/L calculated by DoseMeRx

Excluded from calculations, value is outside hospital limits.

If a record has been automatically excluded, the reason for its exclusion will be explained in a message that can be read by hovering your mouse over the  icon.

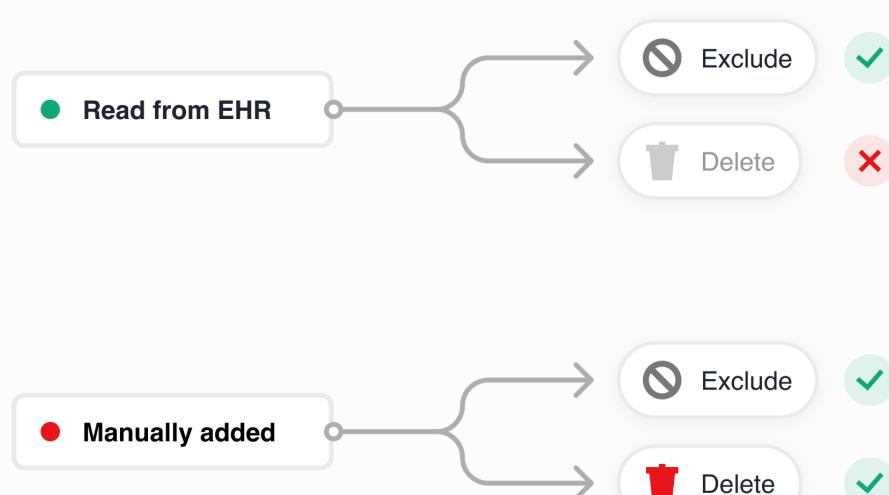
Automatically excluded records cannot be re-included.

Data Handling

Deleting individual records

Individual course data records can only be deleted if they have been manually added.

You cannot delete course data records that have been retrieved from the EHR.



Recorded Course Data [Add Dose](#) [Add Observation](#)

View All		Doses	Observations	AUC	Peak/Trough
Type	Time	Amount	Infusion	AUC _T	AUC ₂₄
● Dose	Oct 27 2021, 16:21	1250 mg	2.0 h	242.6	484.3
● Level	Oct 28 2021, 15:51	14.9 mg/L	—	—	—
● Dose	Oct 28 2021, 16:07	1250 mg	2.0 h	242.6	484.3
● Dose	Oct 29 2021,			242.6 ¹	484.3 ¹
● SeCr	Oct 29 2021,			—	—

[Edit this dose](#) [Exclude from calculations](#)

[Delete dose](#)

To delete a manually entered dose or observation, click the more options icon, and select the 'Delete this dose' / 'Delete this observation' option.

Note: You will only see this option if it is possible to delete that record.

Data Handling

Deleting courses

Any course can be manually deleted in DoseMeRx.

When a course is deleted, any manually added data will be permanently deleted and cannot be recovered. If the deleted course contained any course data retrieved from your EHR, it may be regenerated the next time DoseMeRx is launched for that patient.

The screenshot shows the DoseMeRx software interface. At the top, there's a 'Patient Information' section with details like Age: 45 years, Weight: 108 kg, Height: 172 cm, Sex: M, and BMI: Obese (Class II). Below this is a 'Course List' table with four rows: Vancomycin IV, Amikacin, Gentamicin, and Tobramycin. To the right of the list is a 'Course Preview' panel for 'Vancomycin IV' (Adult (1-comp.)). The preview shows 'Recent Doses' and 'Recent Observations' tables. A red box highlights the 'Delete Course' button in the preview panel.

To delete a course, first select it in the course list, then in the course preview panel click the more options icon, and select the 'delete course' option.

The screenshot shows the DoseMeRx software interface with a 'Delete Course' dialog box in the foreground. The dialog title is 'Delete Course' and it says 'Vancomycin IV – Adult (1-comp.)'. It contains a message: 'Course data read from your EHR in the last 28 days will be re-generated next time DoseMeRx is launched for the patient.' Below this, another message states: 'Manually added/edited/excluded data will be permanently deleted. This particular action cannot be reversed.' At the bottom of the dialog are 'Cancel' and 'Delete' buttons. The background shows the same 'Patient Information' and 'Course List' as the previous screenshot.

The delete confirmation popup will display, to show the course you are deleting and explain what will happen to the data it contains.

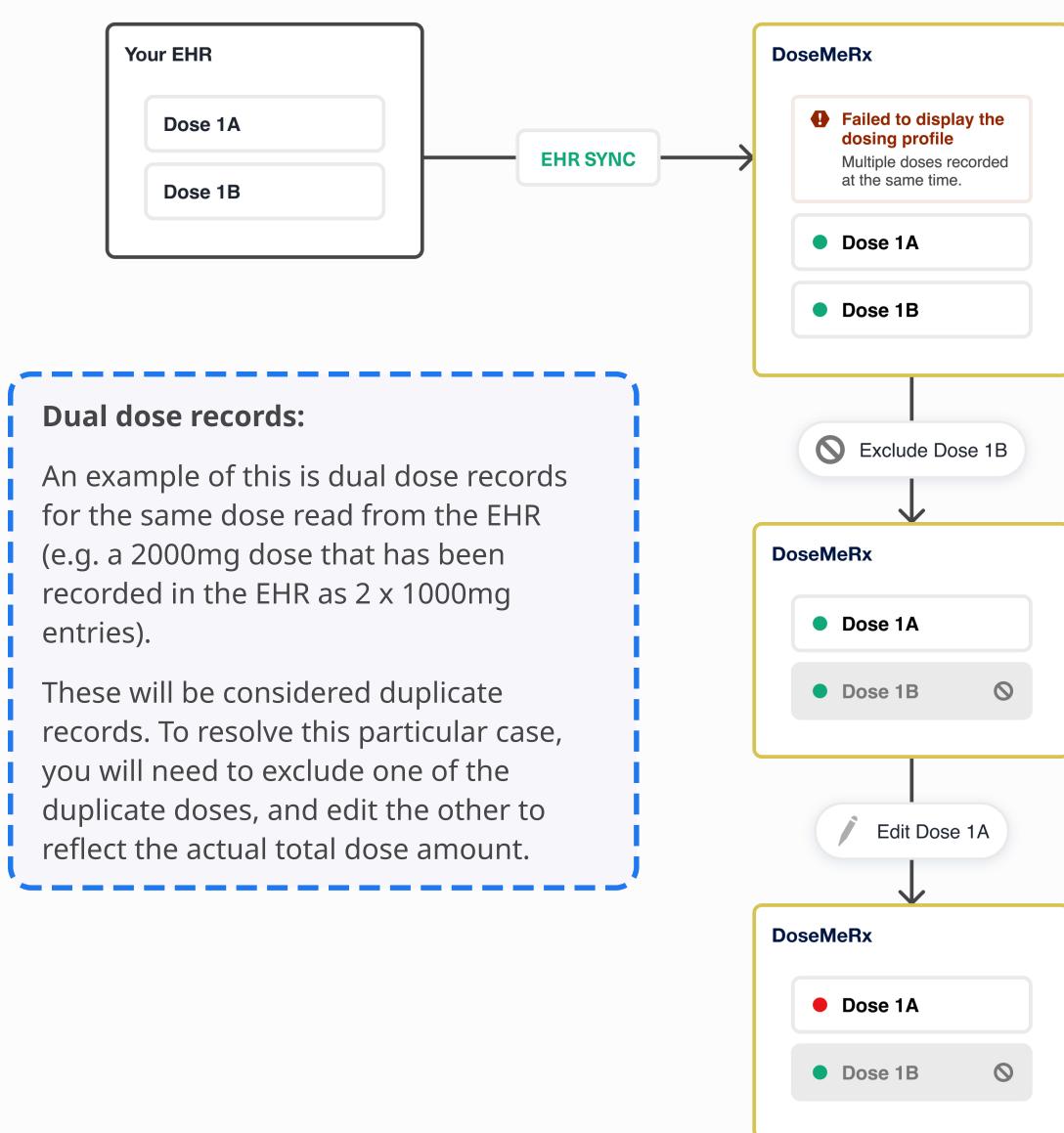
Data Handling

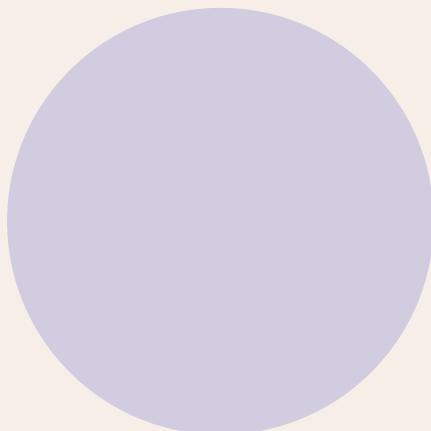
Duplicate Data

If two or more course data records of the same type (e.g. two doses, two drug levels etc.) have been recorded at the same date and time, these will be considered **duplicate records**.

DoseMeRx **only checks the date and time** in order to flag duplicates, the records do not need to be identical in every way. For example, two doses will not need to have identical dose amounts or infusion lengths for them to be considered duplicates.

Action will be required to **resolve duplicates**. If there is potential duplicate data, you will see an error on the Dosing Profile, and the duplicates will need to be dealt with manually (by either editing, excluding or deleting one of the duplicate records).





**Dosing software
with a human side.**

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