MEDIWARE

Project MwPharm

FREQUENTLY ASKED QUESTIONS

Name	**Authors**
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Revision	**Date**
1.2	1.7.2024

Document History

Revision	Date	Author	Description
1.0	19.05.2021	Matouš Kasal	First Revision
1.1	24.05.2022	George Douša	Second Revision
1.2	01.07.2024	Marina Radić	Third Revision

Content

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1 General Information

1.1 About application

1.1.1 What is MwPharm Online?

MwPharm is clinical pharmacokinetic program used primarily to establish proper dosing regimen which is determined by both the population pharmacokinetic parameters from a drug database being a part of MwPharm and individual patient physiological parameters.

1.1.2 What are the benefits from using this software?

The program was designed to:

- Improve the drug prescription quality
- Prevent patient intoxication
- Prevent patient underdosage
- Reduce the number of measurements of plasma drug concentration
- Shorten the time spent in the hospital for the patient
- Simplify the communication among doctors

1.1.3 What is the difference between MwPharm++ and MwPharm Online?

MwPharm++ is an older, stand-alone version of our product. Switching to online version makes it easier for customer to access and work with the software from anywhere in the world.

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1.2 Registration

1.2.1 How long is the trial version valid for use?

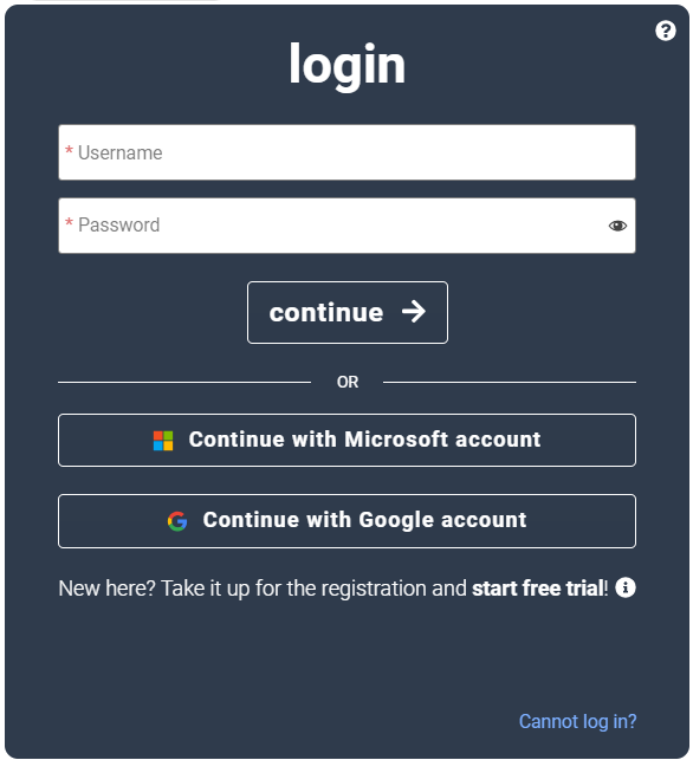
Trial version license works for **30 days**. You have all components of our software unlocked to truly test out our software. After this time period, it is necessary to buy a license in order to be able to use the application.

1.2.2 How to get a licence?

If you decided that you want a license for our software, feel free to email us: **info@mediware.cz** where you will obtain a pricelist with specification on the price and period of usage for our software.

1.2.3 How to register to the application?

You can register to the application by three different ways: using your e-mail and password, Microsoft or Google account. Login page is directly accessed by searching for https://mwpharm.online/en/account/login.



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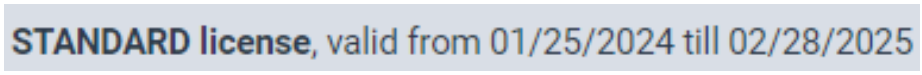
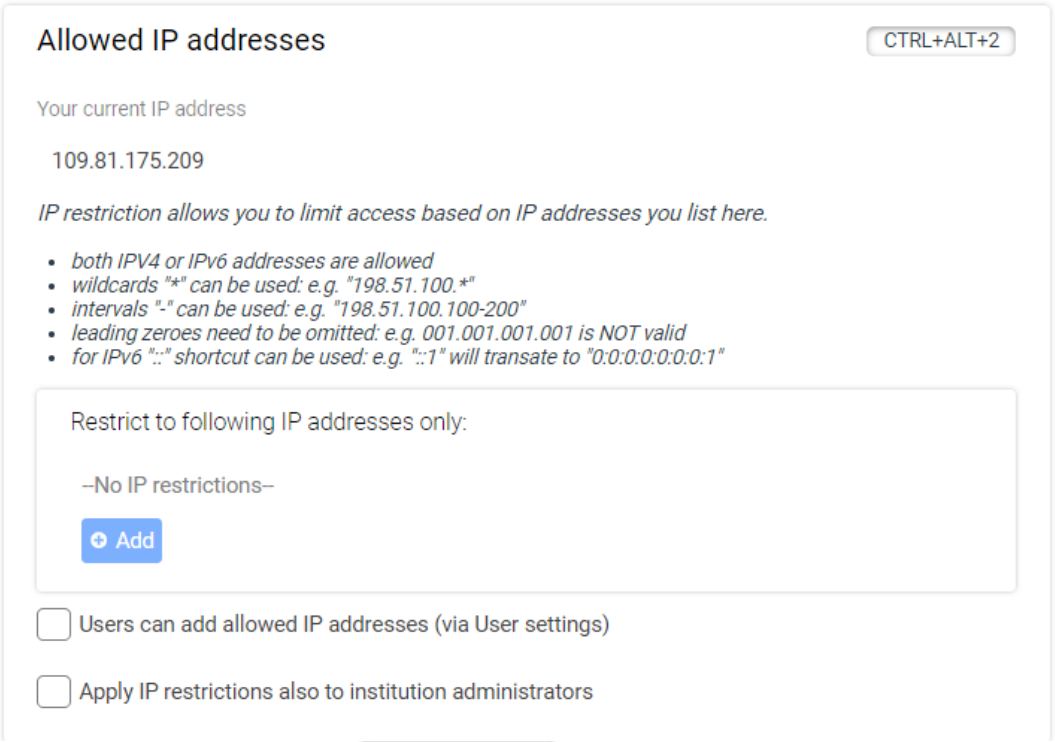
1.2.4 How to check the expiration date of a license?

Your license validity is always displayed on the dashboard. There's also a reminder to extend your license when the expiration date is approaching.



1.2.5 How can I secure my account?

You can secure your account by setting a two-factor authentication in the application settings. It is also possible to restrain access only to certain IP address in the settings. See photo below.



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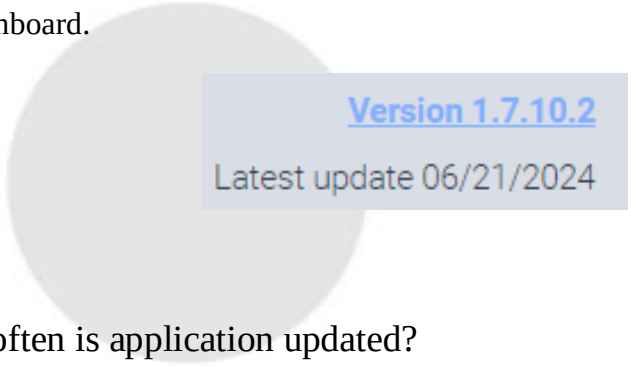
1.3 Updates and Maintenance

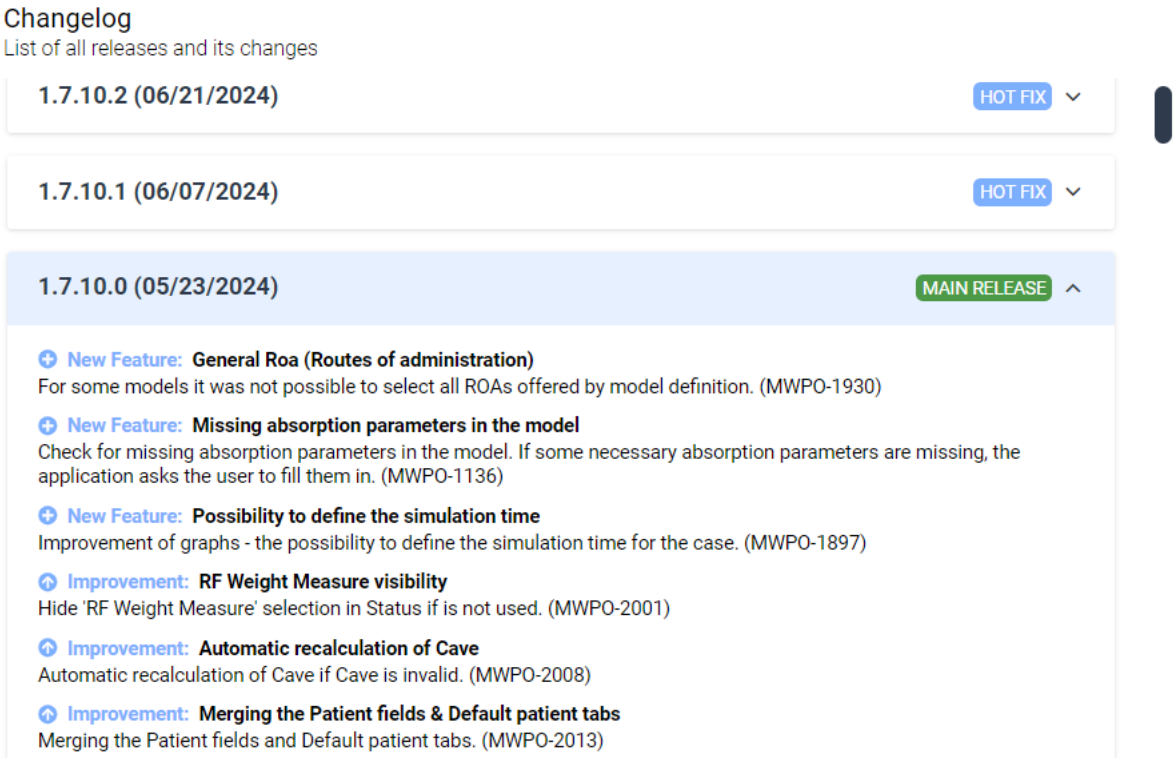
1.3.1 Where can I see application version?

You can find information about current application version and latest update in upper right part of section Dashboard.



1.3.2 How often is application updated?

The application is updated 4 times a year. You can see list of all main realeases and hot fixes once you click on the version part mentioned in question 1.3.1.



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1.4 Support and Contact Information

1.4.1 How do I contact customer support?

Directly send comment or question to our client support team **support@mediware.cz**.

1.4.2 What support resources are available?

We provide customer support via e-mail, telephone, forum and service desk. You can contact us directly using FEEDBACK button in MwPharm application, placed in the middle of the right part of the application in each section or send an e-mail to support. Register on our service desk via e-mail and get the support as soon as possible https://mediware.atlassian.net/servicedesk/customer/portal/3.

1.4.3 Are there user forums or community support options?

Yes, from the Dashboard you can easily access MwPharm Forum designed specifically for our users to share valuable insights in software and discuss important topics regarding pharmaceutical field. You can also easily access it via this link: https://forum.mwpharm.online/

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1.5 Training and Onboarding

1.5.1 Will I be trained to use the software?

Yes, we provide our customers with training via Workshops. Workshops are usually held online and they are defined by the level.

1.5.2 What types of Workshop there are?

First level Workshop

First level Workshop is held for beginner users that are getting to know the software.

Second level Workshop

Second level Workshop is held for users that need furher, more detailed explanation of software use.

Technical Workshop

Technical Workshop is set for users that have trouble installing to software, where we provide help to the IT team.

Questions & Answers Workshop

This type of Workshop is set for users that have defined use area of the software that they would like to further discuss.

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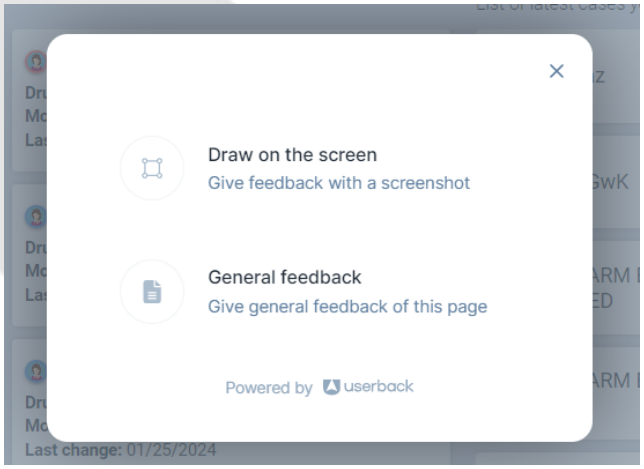
1.6 Troubleshooting

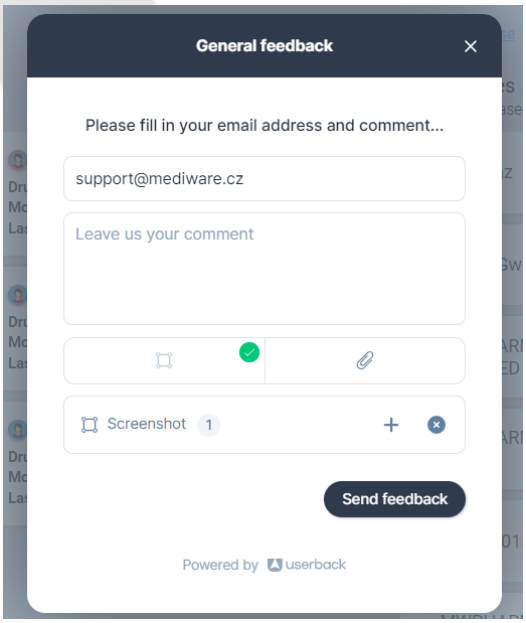
1.6.1 Bug Report

If you come across a bug or a fault in our software, there is always Feedback button in the right part of the screen. You can also use support resources mentioned in 1.4 of this document.

Two possibilities of bug reporting will pop up when pressing the Feedback button.



Draw on the screen: allows you to make a screenshot of conflicted part of the screen via click and drag tool. After the screenshot is made, you can press the green arrow to switch to comment section. Describe the issue and press send.



General feedback: allows you to directly send comment or question to our client support team (**support@mediware.cz**).

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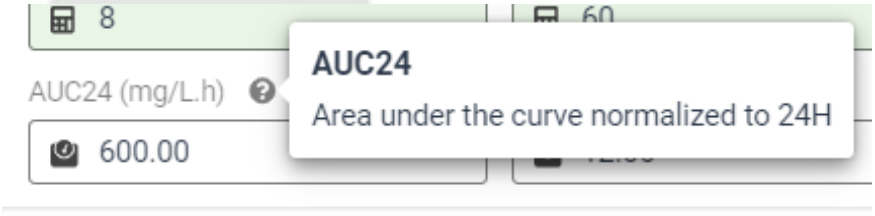
2 Features and Functionality

2.1 Understanding Key Parameters

2.1.1 What does the question mark by the items mean?

Moving your mouse to the question mark will show you detailed explanation of the parameter mentioned or detailes of the possible choices to choose from.



2.1.2 How can I change the basic default units?

Go to **Settings – User Settings – Application Settings** and there you can decide which units you prefere to use as default for each of the parameters.

2.1.3 How can I change the basic default unit of concentration for chosen model?

Unit of concentration can be changed in Application settings, as well as right away in Patient's history.

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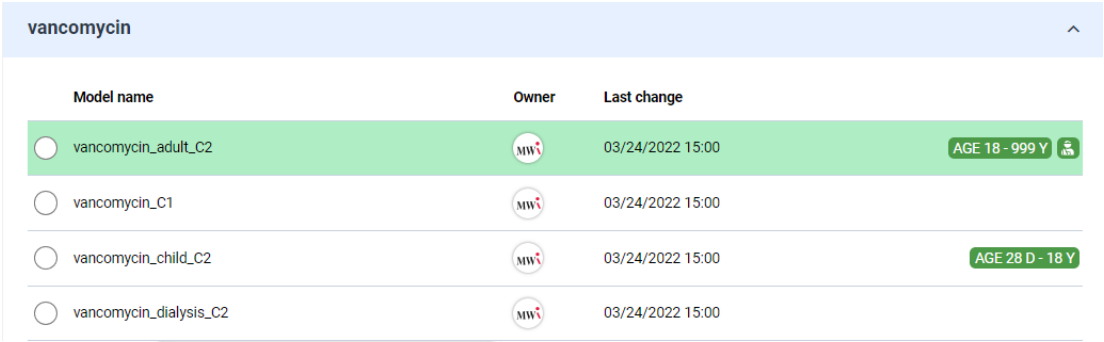
2.1.4 What does C1, C2 and C3 mean?

The C stands for compartment and the number by the letter stands for the number of compartments that are included in the model.



2.1.5 What do the prefixes and suffixes mean?

The following table shows the meaning of these suffixes and prefixes.

Prefix / Suffix	**Meaning**
C1, C2, C3	number of compartments in the model
child, adult, neonate	specifies the use of the model for the age of the patient
0-0.5m,0.5-1m,1-6m, 6-12m, 1-5y, 5-10y, 10-16y	specifies the use and range of the model for the age of the patient (m – months, y – years)
prefixes like !, # etc.	these models have different studies backing them up then our base models
cf	cystic fibrosis
ic	intensive care
k	elimination rate constant
capd	continuous ambulatory peritoneal dialysis

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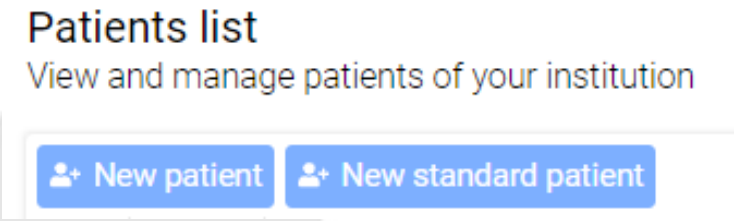
2.2 Patient

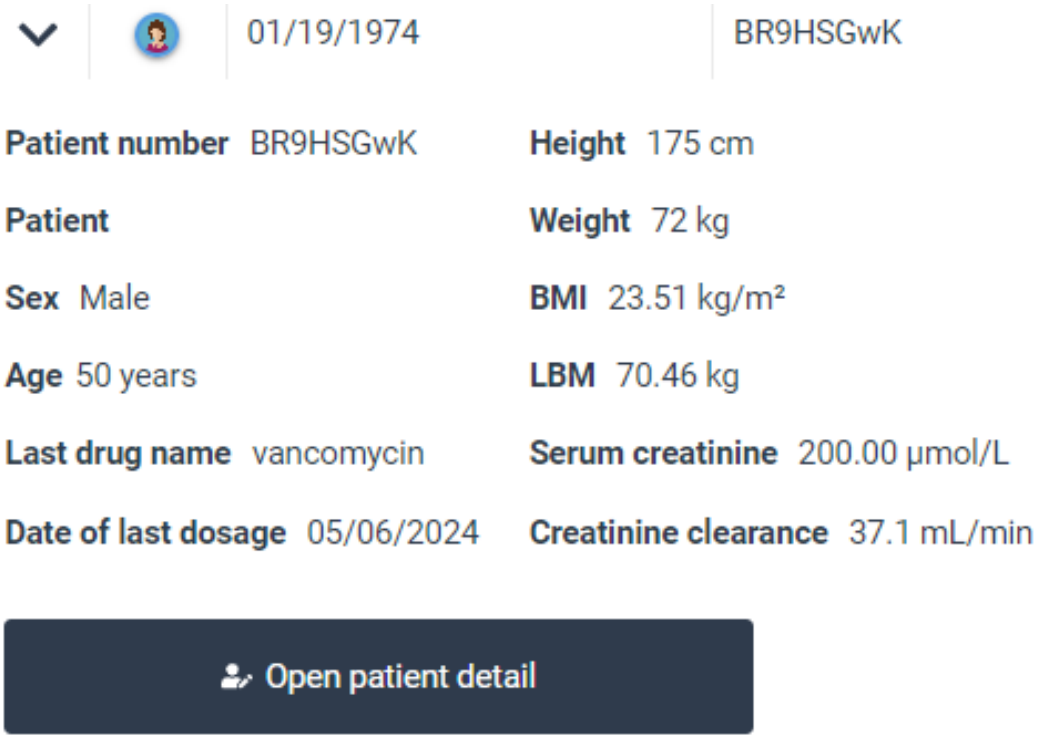
2.2.1 How to add a new patient?

To create a new patient, you need to go to the **Patient (F2)** tab and choose "New patient".



2.2.2 How do I access the patient I have been working with before?

In section Patient you can see the list of all your patients and choose the one that you would like to continue the work with by opening the patient details.



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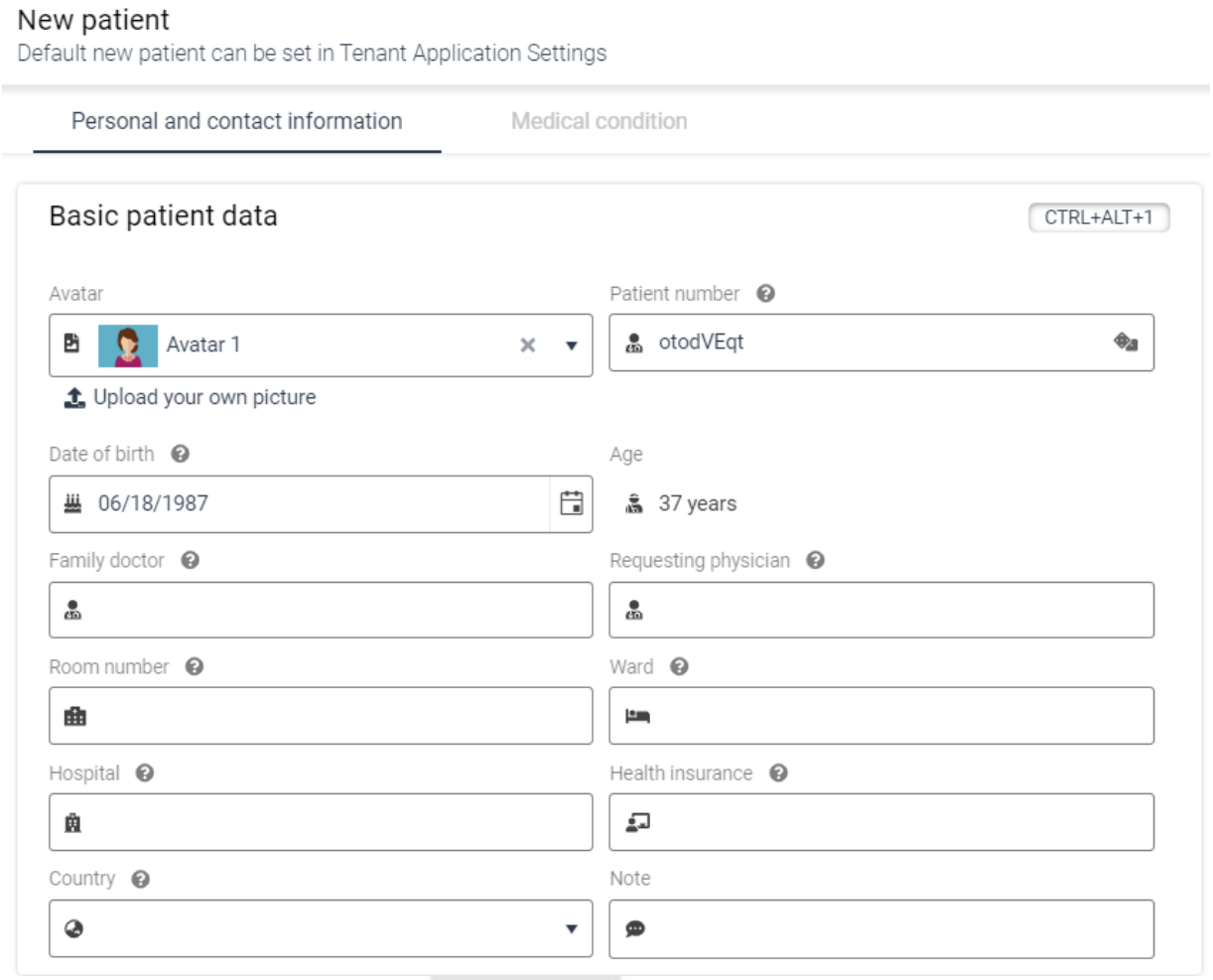
2.2.3 How to store patients data?

As a first step, fill in basic information about a patient. Rows **Patient number** and **Date of Birth** are mandatory and can't be blank. When you save the "Basic patient data", the application unlocks and automatically switches to the section "**Medical condition**". After you fill out these rows click on "**Save changes"** to create a new patient in your database.



2.2.4 Do I have to fill in personal patient information?

While entering patient data, user can also fill in personal and sensitive information, but this is not required for the application calculations. Personal information such as first name, last name, e-mail, phone number, and address can be filled. If you do not wish to see this field, you can change its appearance in application settings.

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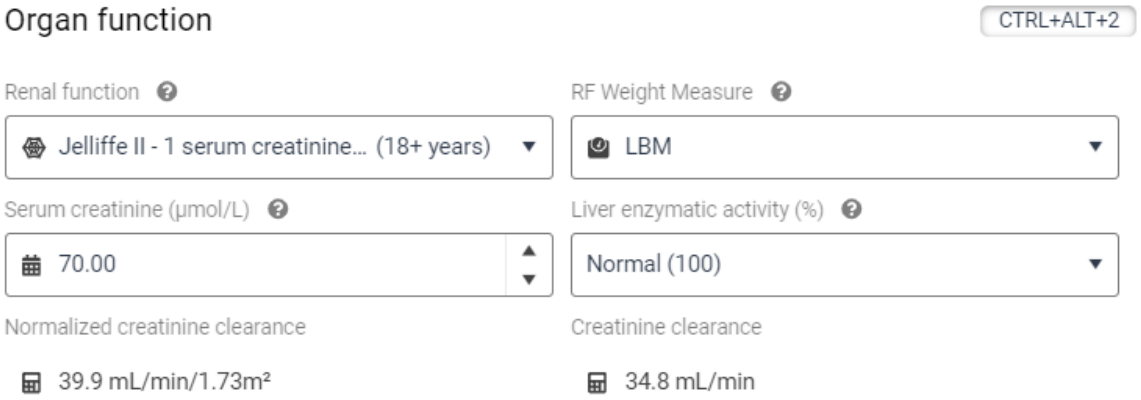
2.2.5 How to define patient medical condition?

Defining patients medical condition is neccessary for the software to make individual calculations. Weight and height are mandatory fields, you can also specify other patient parameters such as body constitution, sex and race which will help in specification of the dosing.

2.2.6 What does Organ function field serve for?

Organ function is very important field since its purpose is to define the value of creatinine clearance. This parameter is calculated from the inserted serum creatinine value based on the renale function that the user chooses. User can decide between 14 offered renal functions, as well as the option user-estimated creatinine clearance.



2.2.7 What is the difference between Simplex and Marquardt method?

The Simplex method calculates without standard deviation. The Marquardt calculates with standard deviation.

2.2.8 What is the difference between Jelliffe “renal functions” in Status card + Schwartz children formula?

Jelliffe Ⅰ and Jelliffe Ⅱ are two methods published by Dr. Jelliffe. The equations are following:

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Jelliffe 1 *(Ann. Int. Med. 79: 604, 1973)*

$$CL_{cr} = F_{sex} \cdot \frac{98 - 0.8 \cdot (Y - 20)}{Cr} \cdot 88.5$$

F_{male} = 1.00

F_{female} = 0.90

Jelliffe 2 *(Math. Biosc. 14: 17-24, 1972)*

$$F_1 = (29.305 - 0.203 \cdot Y) \cdot LBM \cdot \frac{(1344.3 - 43.76 \cdot \frac{\Delta Cr}{2})}{(1344.3 - 43.76 \cdot 1.1)} \cdot 0.85 \cdot F_{sex}$$

$$F_2 = 4 \cdot LBM \cdot \frac{\Delta Cr}{\Delta t} \qquad F_3 = \frac{\Delta Cr}{2} \cdot 1440 \qquad \Delta Cr = \frac{(Cr_1 - Cr_2)}{88.5}$$

$$CL_{cr} = \frac{F_1 - F_2}{F_3} \cdot 100 \cdot \frac{1.73}{BSA}$$

F_{male} = 1.00

F_{female} = 0.90

Δt is the time (`days`) between two successive creatinine level measurements Cr_1 and Cr_2 (`µmol/L`).

Schwartz *(Pediatrics 58: 259-263, 1976)*

$$CL_{cr} = \frac{0.55 \cdot BH}{Cr} \cdot 88.5$$

The Jelliffe Ⅱ-2 serum creatinine levels method is suitable for calculating the creatinine clearance in case of an instable kidney function. It is the only method that takes the non-renal creatinine clearance into account with patients suffering from a chronic kidney disease. The net creatinine production is only dependent on Ccr levels in case of Jelliffe 2. The Schwartz children formula is only available if the subject is younger than 20.

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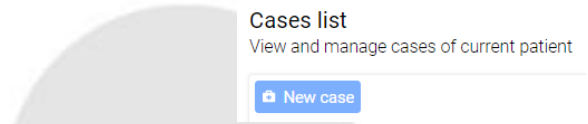
2.3 Case

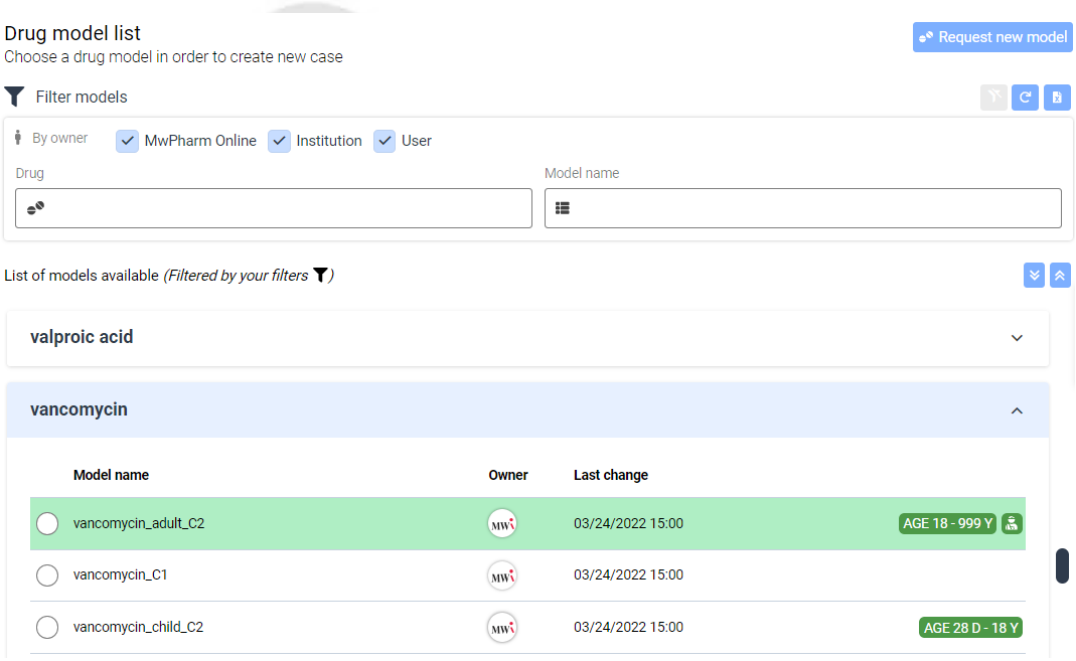
2.3.1 How do I create a new case?

Once you have created a new patient or opened details of the old one, go to the section Case and create a new case using the button **New case**.



2.3.2 How do I decide which drug model to use?

While creating a new case, you can choose the medicine that you would like to apply to your actual patient. You can choose the medicine from Drug model list, which contains about 180 different drugs, and around 300 models altogether. Once you decide your medicine of choice, application will automatically suggest which model of the specific drug you should use based on patient parameters you have previously entered in Patient section. The suggested model will be marked with green colour.



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2.4 History

2.4.1 What parameters can I insert in History?

History section allows the user to have overview of loading and maintenance dose, that are specified by the application. User can insert specifical parameters for the actual patient such as changes in weight, drug concentration from the blood sample, creatinine, liver function and values specific for dialyses.

Timestamp		Doses and dialyses					Samples	Measurements		
Date	Time	Route of administration	Value	Number	Interval [h]	Infusion duration [h]	Concentration mg/L	Weight [kg]	Creatinine [µmol/L]	Liver function [%]
06/18/2024	10:22	IV	1 500 mg	1	12 h	1 h	-	89 kg	70 µmol/L	100 %
06/18/2024	22:22	IV	1 250 mg	1	12 h	1 h	-	-	-	-
06/19/2024	08:00	-	-	-	-	-	-	75 kg	-	-
06/19/2024	10:22	IV	1 250 mg	1	12 h	1 h	-	-	-	-
06/19/2024	22:22	IV	1 250 mg	1	12 h	1 h	-	-	-	-
06/20/2024	09:00	-	-	-	-	-	20 mg/L	-	-	-
06/20/2024	10:22	IV	1 250 mg	1	12 h	1 h	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

2.4.2 How to copy history between the models?

Open the History tab and press **History import (Ctrl+Shift+I)**. MwPharm Online will automatically open all cases with the same drug substance which you are currently using. You can import history from another case in the application or import from CSV file from your PC. Choose the case and press **Import history** to finish the process.

2.4.3 How to export model with History

To export the model with History, go to the **History Tab** and click **Export** (or CTRL+SHIFT+E).

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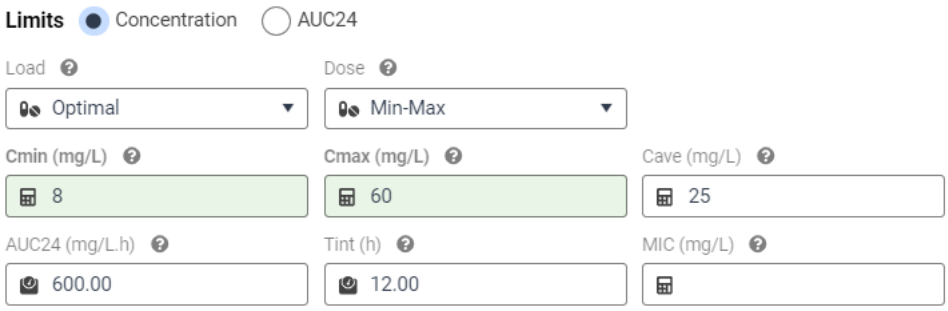
2.5 Dosing

2.5.1 How to generate a dose?

New dose can be generated based on concentration or AUC24 parameters. Each of these require the user to choose wanted targeted value for each parameter.



2.5.2 What does Practical mean?

MwPharm automatically calculates the Exact dose for you actual patient, which is often hard to implement in clinical setting. For this reason, we offer 4 Practical dosing regimens, that are easy for pratical clinical realization.

Each of these dosing regimens has specified values, that can be modified by user directly. After choosing your prefered dosing regimen, add it to the history.

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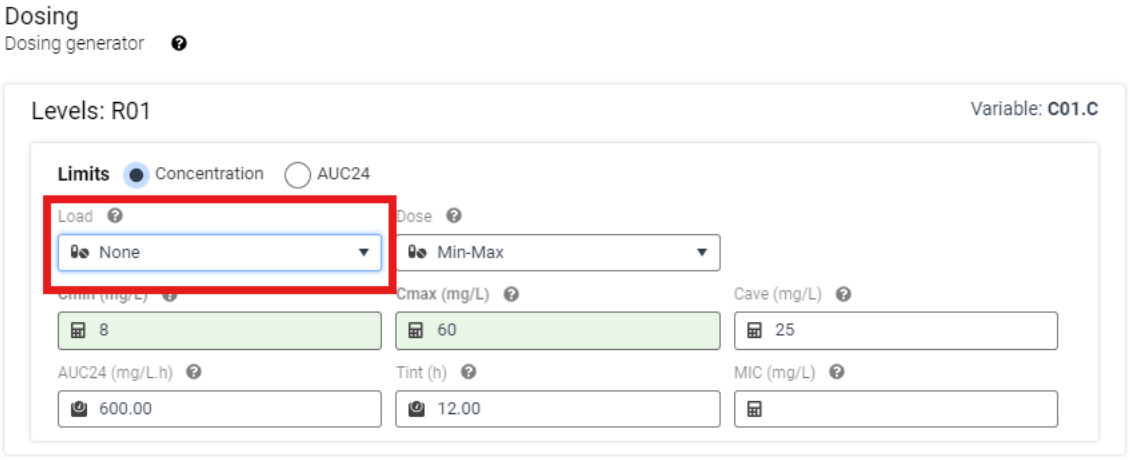
2.5.3 How to set loading dose to NONE?

In order to set loading dose to NONE, choose None for parameter Load in Dosing section. See photo below.



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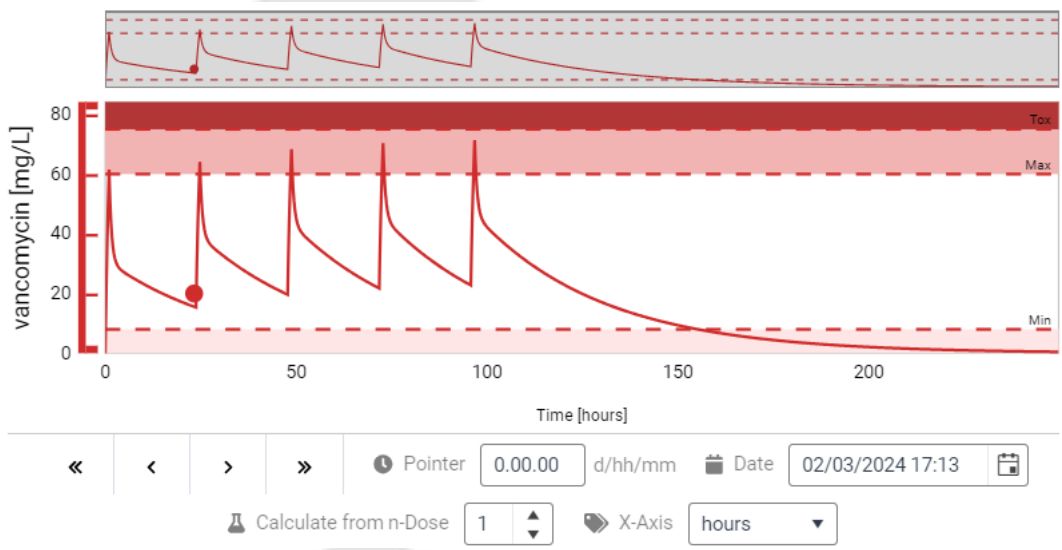
2.6 Simulation

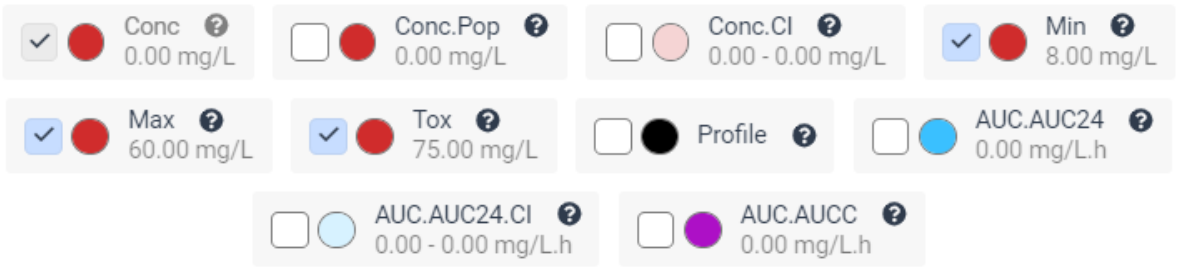
2.6.1 How to change scaling of a graph

At first, go to the Simulation graph, where the scaling can be done. Easiest way to scale your X axis is to use scrolling wheel of your mouse while above the graph. You can also choose different time units below the graph as shown.



2.6.2 How to add another curve?

In order to add a new curve to the graph, you can choose from the parameters automatically shown below the graph, as in the photo below. To show any of the graphs, check the box.



MwPharm enables lots of other curves, that can be imported. For this, go to the Settings in section Simulation and choose one the parameters suggested or choose Other chart selection. You can choose colour and line type of the new curve. Don´t forget to check the box in order to show graph and click save.

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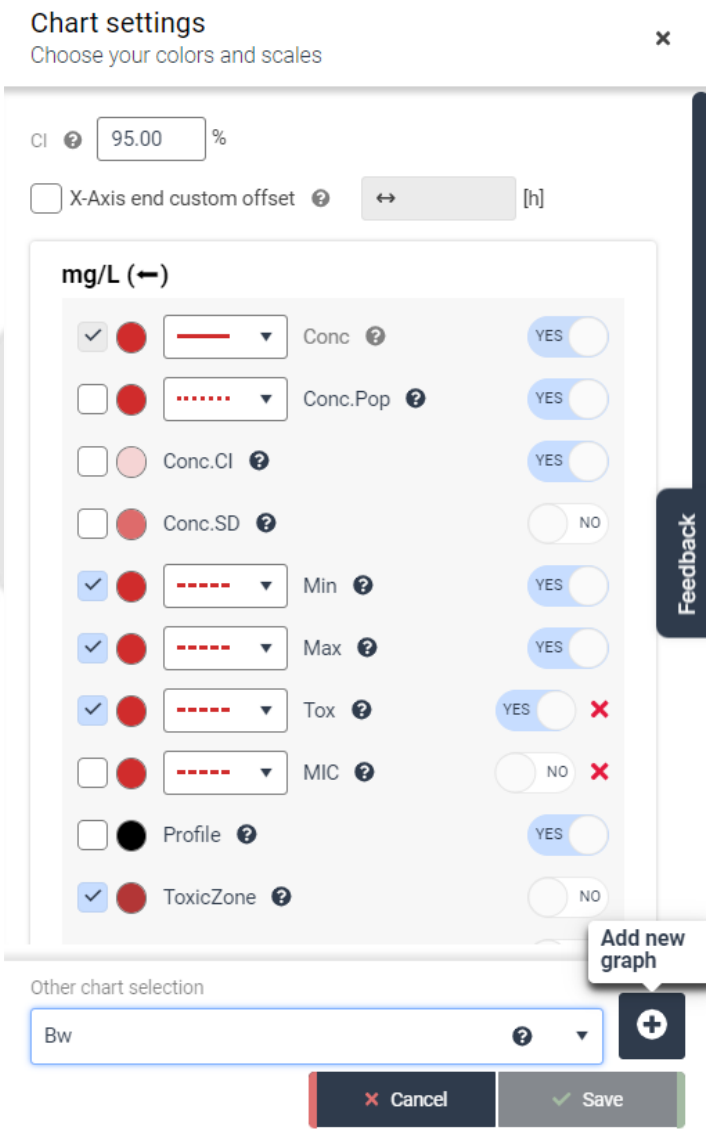
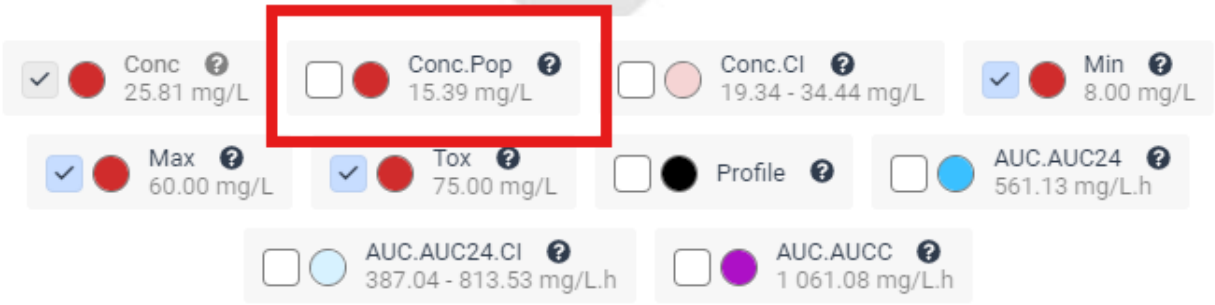


2.6.3 What does POP check box mean?

Checkbox "POP" will show the curve based on POPulation data. When user goes back into simulation tab after fitting, the program will use the most accurate available data (fitted individual parameters). However, if the user wants to see how the curve looks based only on population data, use the check-box “POP”.



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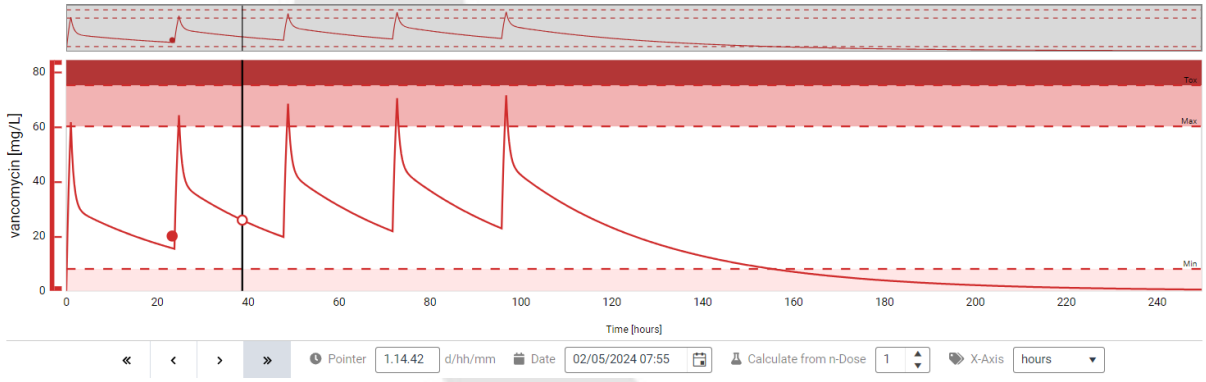
2.6.4 What are the individual checkboxes in Simulation tab good for?

Checkbox	Meaning
Conc	Shows the concentration of the drug
MIC	Minimum inhibitory concentration
AUC(C)	Area under curve (cumulative)
CI	Confidence interval
SD	Standard deviation
AUC24/MIC	Area under curve normalized to 24 h divided by MIC
Ccr	Creatinine clearance rate
Bsa, Lbmc, Bw	Body surface area, lean body mass, body weight
eGFR(n)	Estimated glomerular filtration rate (normalized)
Total	Shows the doses used
POP	Shows concentration level for population
Time	Shows vertical time lines for better reading from graph

2.6.5 How to determine the concentration at time X?

Time cursor can be moved by clicking on the arrows below the graph. One arrow for minimal time step, two arrows for bigger time steps. Concentration values and other variables (at certain time) can be seen below the simulation graph.



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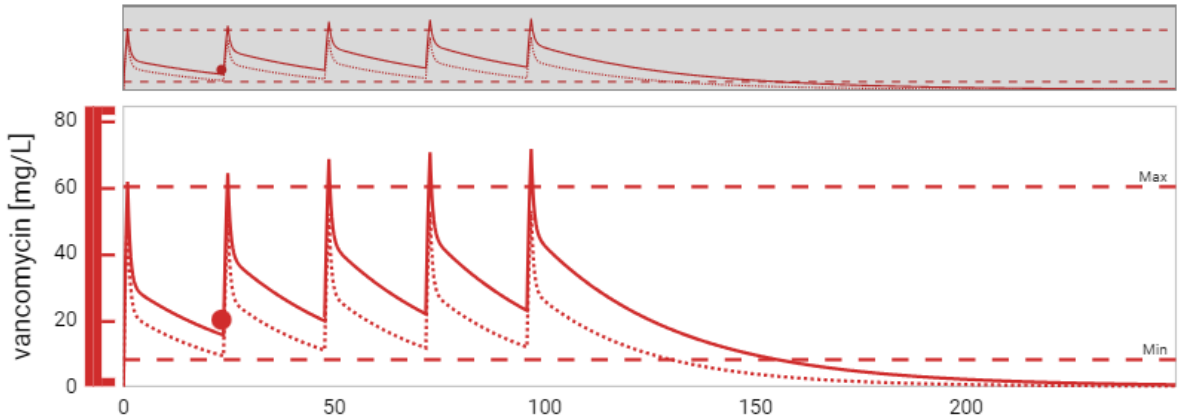
2.7 Fitting

2.7.1 What is the purpose of fitting?

Fiting section enables the user to fit the simulation of the drug model based on population to its specific patient. This will lead to individual specified simulation. Fitting is done automatically with use of mathematical functions based on scientific literature. After saving the fitting, simulation curve will change. The photo shows simulation based on population with dashed line and new fitted simulation with continuous line.



2.7.2 Fitting from one point

Option A - with Bayes:
We recommend this option in 95% of cases. First, you should try tick off fitting using Bayes, if it isn't selected and press Fit. If you have a new model, you will be offered if you want to generate Bayes or not.

Option B - without Bayes:
If you would like to fit the model from one point without Bayes, error message will appear in the lower right corner. It is therefore necessary to reduce the number of fitting parameters. The number of fitting parameters can be reduced when you select Fixed in the column Type. In case you want to fit all the selected parameters, you must increase the number of measurements of the concentration. You have to have at least the same number of measurements, as you have fitted parameters.

2.7.3 What is the difference between fitting with or without Bayes?

The Bayesian method combines a priori information (population data) with a posteriori information (one or more measured concentrations) for finding the statistically most likely values of the individual parameters. The number of non-Bayesian can never exceed the number of observations. That means that fitting using just one measured concentration point can be done with a model containing maximally one non-Bayesian parameter.

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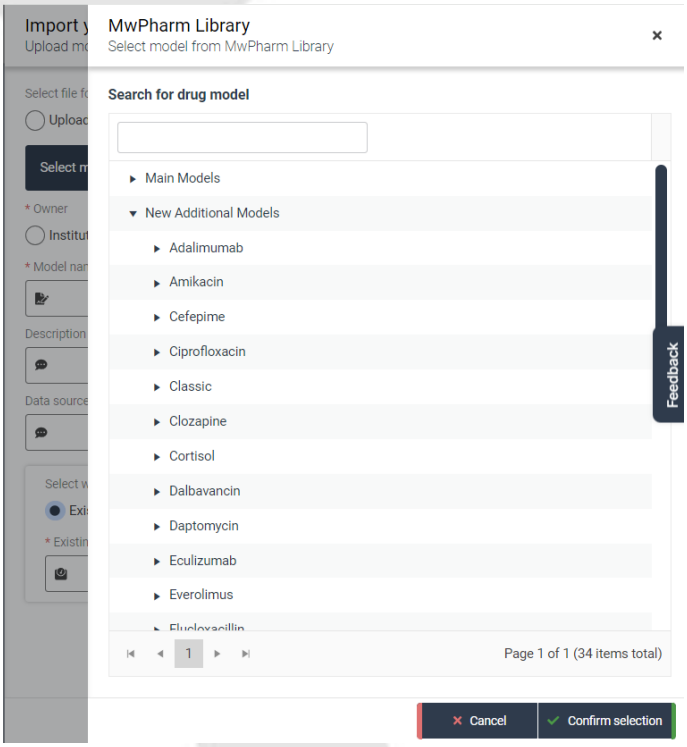
2.8 Drug models

2.8.1 How do I find the information about the sources of the models?

To find this information, you just need to go to the **Drug models (F4)** tab and select the model you want to find the information about. Information about the source will pop up in the right part of the screen.

2.8.2 How to import a new model to your database

In **Drug models** section choose **Import model – Select from MwPharm Library**, where you can select your model of choice. The other option is to upload file of a model.



2.8.3 How to add a new model?

New models can only be added to the database by Mediware a.s. However, new models can be created on a request. Email us at: support@mediware.cz where we can discuss all the possibilities.

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2.8.4 How to change model parameters?

Choose the model in Drug models and press button Copy model. A copy of your model will be automatically created in the database (e.g. YourModel_C1_COPY). You can now use the **Open model details** in the roll out window to open the model editor. Go to Parameters section in order to change any parameter values.

2.8.5 Is it possible to work with drug interaction in Mwpharm Online?

The software is ready for this implementation, but currently there are no drug-interactions models available in the default database. If you have data and parameters for drug interaction, you can model this in Edsim++ using special interaction building blocks.

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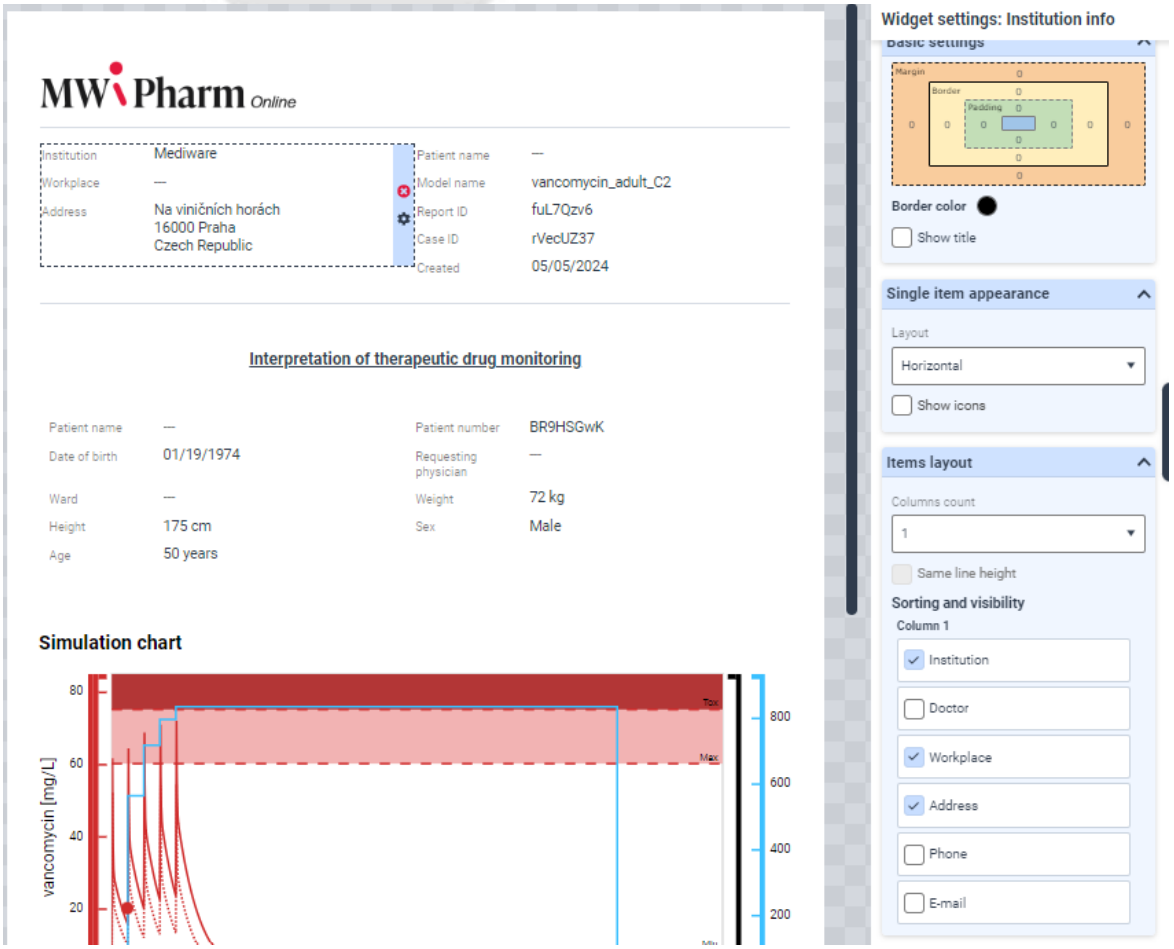
2.9 Report section

2.9.1 How to create a new report?

In section Reports you can create a New report and choose from one of the 3 default reports, that are set in the software. Default reports are based on the templates used the most from our users.

2.9.2 How to change the Export Templates and Reports?

Reports in MwPharm Online are very easily editable. Each part of the report can be adjusted with a click on the Settings icon..



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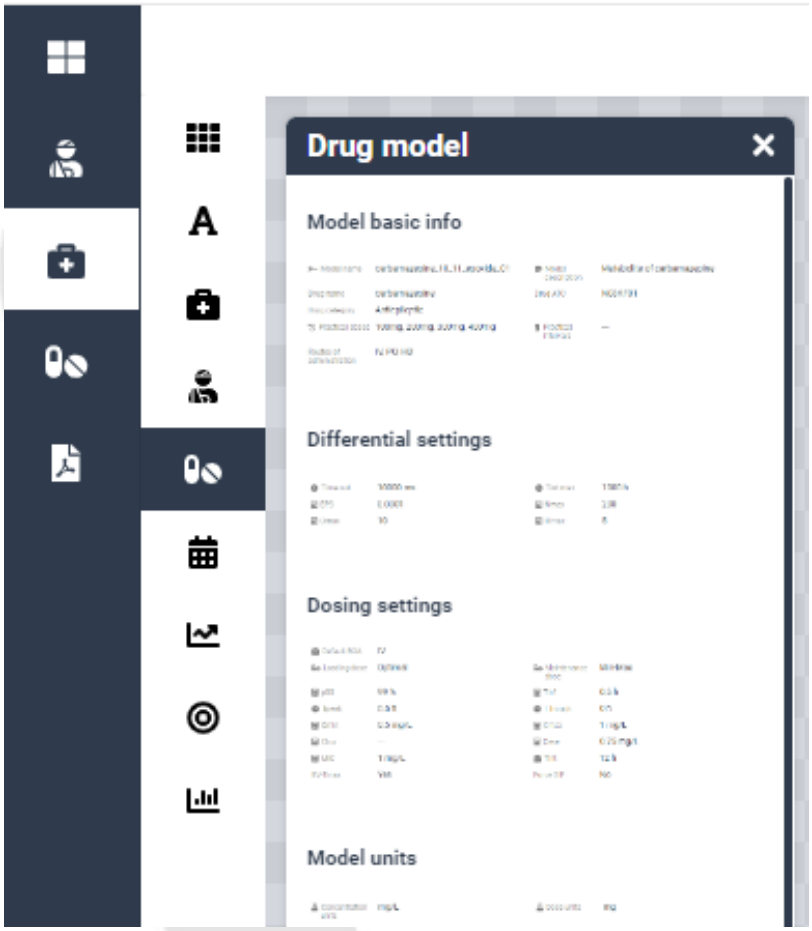
2.9.3 Is it possible to add new parts to the report?

User can also easily add new parts to the report by choosing the component on the left side of the screen. Each component of the report can be „dragged & dropped“ with a mouse.



2.9.4 Do reports stay in the database?

After saving a new report, it will permanently stay in your database even after printing it.

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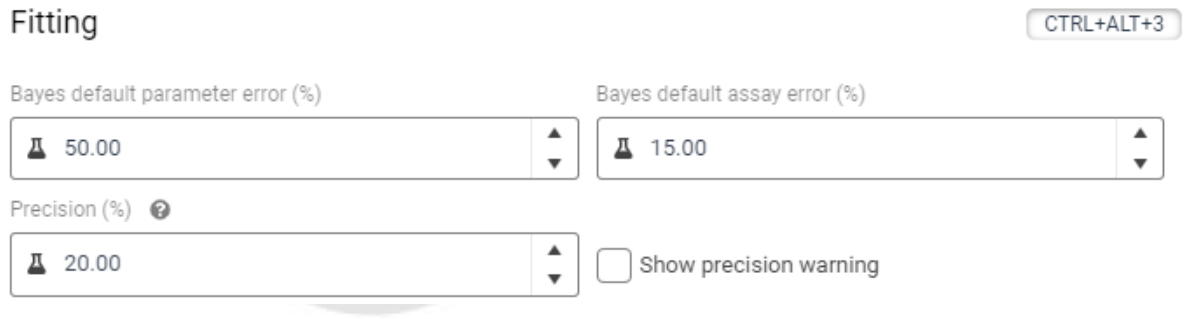
3 Settings

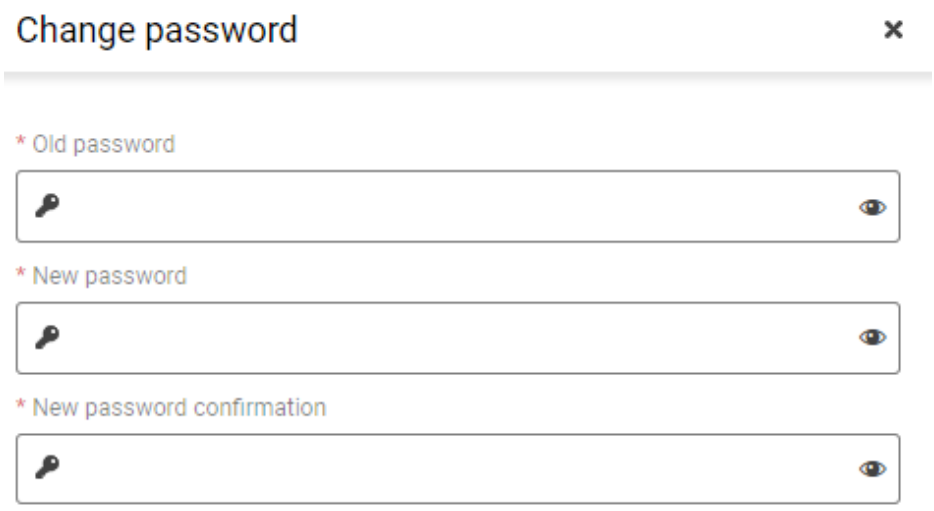
3.1 How to change Bayes settings

To change Bayes settings, go to the **Settings (F7)** tab and choose **Application settings (ALT+2)**. You can change the settings for Bayes default parameter error (%) and Bayes default assay error (%) in Fitting section.



3.2 How to change your password in MwPharm Online

In order to change your password, go to **Settings (F7)** – User settings – Authentication. In Authentication method section choose button Change password. Fill in both old and new versions of your password and press **"Save "**.



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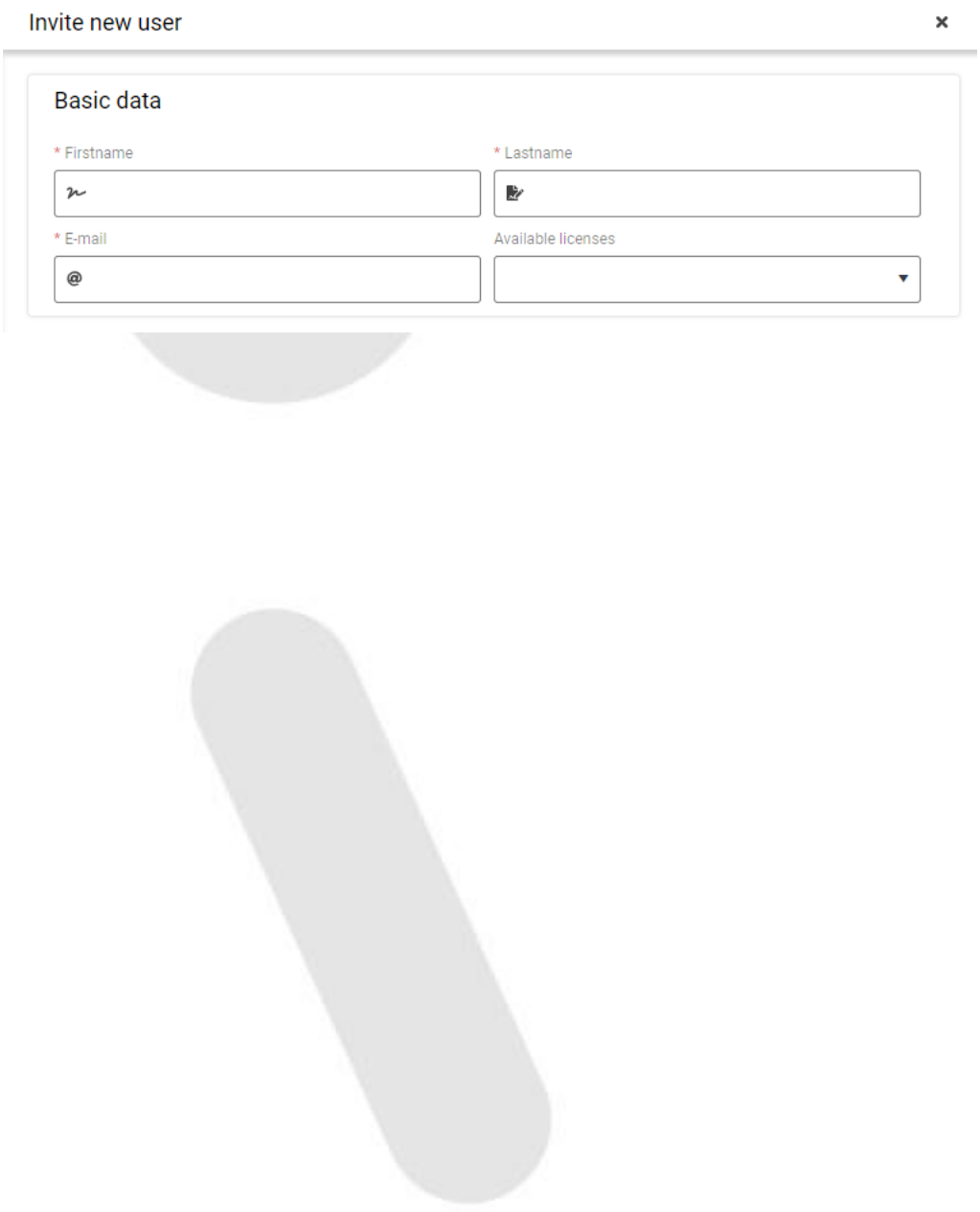
3.3 How to add a new user to my institution?

In order to add a new user, go to **Settings (F7) – Users** and press **Invite new user** button. You will be required to insert basic user data, and potential user will recieve the invitation to join via e-mail.



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