

MWPHARM++ USER MANUAL

LOGIN SCREEN

After launch and load the app, it is necessary to log in. By default (until the user changes it) via:

Username: **admin** and Password: **admin** or Username: **user** and Password: **user**.

New version supports **multiple user accounts** – each user can have their own drug and patient database, or partially or fully shared with another specific user.





PATIENT SCREEN

Click on **Standard** button to create new record in the patient database. Fill the Patient Number, Name, Date of Birth and Sex and click on **Insert** button. New patient will be inserted into the database.

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		Type:			
Model Results Notes MwPha	am				
PATIENT	1				
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Patient Number	1				
Name and Initials	MW	11/11/1950	!C001	!CASUS 001	^
Date of Birth	08/12/1959	11/11/1945	!C002	!CASUS 002	
Sex	Male	21/08/1936	!C003	CASUS 003	
		11/11/1946	!C004a	CASUS 004a	
		11/05/1993	!C004b	CASUS 004b	
		11/11/1922	1C005	CASUS 005	
Address		11/11/1992	1C006	CASUS 006	
Postcode / Zipcode		11/11/1915	1007	ICASUS 007	
City		11/11/1024	10000		
Family Doctor		11/11/1924	1000		
Pequesting Physician		26/04/1926	1N001	INDEM 001	
Requesting Physician		27/12/1929	1N001	INPEN 002	
Ward		26/04/1923	1N003	INPEM 003	
Room Number		22/11/1984	!N004	INPEM 004	
Description		22/03/1921	!N005	INPEM 005	
		31/10/1942	!N006	INPEM 006	
	2.	15/04/1910	!N007	INPEM 007	
	24/11/2014	30/08/1926	!N008	INPEM 008	
Medication Date	24/11/2014	11/05/1930	!N009	INPEM 009	
		27/12/1949	!N010	INPEM 010	
Age	55 years	19/07/1939	0 EXAMPLE 1	Adult	
		19/07/1939	0 EXAMPLE 2	Dialysis	
Last Medication		19/07/1939	0 EXAMPLE 3	CAPD	
Lust medication		14/07/1994	0 EXAMPLE 4	Tour De Pharm	
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Select the patient and click on Load button to load existing patient from the database.

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PATIENT					
		Dob	Number	Name	
Patient Number	10003				
Name and Initials					
	21/00/1026	11/11/1950	1C001	CASUS 001	^
Date of Birth	21/08/1930	21/08/1036	1002	ICASUS 002	
Sex	Male	11/11/1946	1000J	ICASUS 004a	
		11/05/1993	10004b	CASUS 004b	
		11/11/1922	!C005	CASUS 005	
Address		11/11/1992	!C006	CASUS 006	
Postcode / Zipcode		11/11/1915	!C007	CASUS 007	
City	ENISCHEDE	13/09/1990	!C008	CASUS 008	
City Constitue Do este o	ENSCHEDE	11/11/1924	1C009	CASUS 009	
Family Doctor		11/11/1977	!C010	CASUS 010	
Requesting Physician	PUOZ 94	26/04/1926	1N001	INDEM 001	
Ward		2//12/1929	10002	INDEM 002	
Room Number		22/11/1984	1N005	INPEN 004	
Description		22/03/1921	1N005	INPEM 005	
		31/10/1942	1N006	INPEM 006	
		15/04/1910	!N007	INPEM 007	
		30/08/1926	!N008	!NPEM 008	
Medication Date	24/09/1994	11/05/1930	!N009	INPEM 009	
		27/12/1949	!N010	INPEM 010	
Age	58 years	19/07/1939	0 EXAMPLE 1	Adult	
		19/07/1939	0 EXAMPLE 2	Dialysis	
Last Medication	tobramycin	19/07/1939	0 EXAMPLE 3	LAPU	
Lust medication	town and years	19/07/1939	0 HISTORY	Tour De Pharm	
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Date of Change		01/01/1951	102	TEST-D	
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STATUS SCREEN



Specify the data of your patient: weight, height, sex, etc.

List of abbreviations (Status screen):

Bsa	Body surface area
Bmi	Body mass index
Lbm	Lean body mass
Lbmc	Corrected lean body mass
Ffm	Fat-free mass
CL	Total clearence
V	Volume of distribution
fe	Fraction excreted unchanged
t½	Elimination half-life



Select apropriate renal function:





CASE SCREEN

To administer a drug to the patient select appropriate one from the left column (1). In the middle column will show the drug for specific groups of patients (specific PK parameters). By selection the drug from the middle column (2) and clicking on **Insert** button (3) is the drug assigned to the patient. Application newly allows user to define its own "cases" – user can change PK parameters of the particular drug but at the same time not overwrite the original parameters of the drug. To continue to the History screen, click on **Load** button (4).





HISTORY SCREEN

Fill the drug administration history: date, time, road of administration and dosing.

Moving cursor to the red triangles, the help will show.

To save the patient history, click on Store button or get back to the Case screen and click on

Update button under right column.

To perform the simulation, click on Sim button or move forward to the Simulation screen.



List of abbreviations (History screen):

Roa	Road of administration
No	Number of administrations or dialyses
Interv	Time interval between administrations or dialyses
T(inf)	Duration of adminitrations or dialyses
Conc.	Drug concentration
Creat.	Creatinine level



SIMULATION SCREEN

By cheching the boxes, user can show different curves in the graph: concentration, average concentration, AUC (under every peak), AUCC (from zero to the infinity), creatinine clearence confidence interval etc.

To perform the fitting, move to the Fitting screen.



List of abbreviations (Simulation screen):

Conc	Concentration	CLcrN	Normalized creatinine clearence
Cave	Average concentration	Bsa	Body surface area
AUC	Area under curve	Lbmc	Corrected lean body mass
AUCC	Area under curve from zero to infinity	Bw	Body weight
Ccr	Creatinine concentration	CI	Confidence interval
CLcr	Creatinine clearence	INI	Initial prefit curve



To zoom the graph, select particular time interval.





To find out exact concentration, AUC etc. use the **arrow** buttons to move the blue indicator. Values will show on the right side of the screen.





By clicking on **T** button you can add a text to the simulation graph. There is **R** button on Patient, Status, History, Simulation, Fitting and Dosing screen to print the screen.





FITTING SCREEN

To fitt the PK parameters, click on **Fit** button. To Bayes fitting, check the **Bayes** checkbox. In case of missing Bayesian Parameters, click on **B** button to generate Bayesian Parameters and then run the fitting.



List of abbreviations (Fitting screen):

WSS	Weighted sur	n of squares
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- RMS Root mean square
- R2 Coefficient of determination

After the fitting, there are the individual PK parameters on the Status screen. Individual parameters can be deleted by clicking on **POP** button.

DOSING SCREEN

On Dosing screen it is possible to show different dosing regiments by checking to boxes.

List of abbreviations (Dosing screen):

Load	Loading dose
Dose	Maintenance dose
Tint	Time interval between doses
Ndos	Number of doses

You can select appropriate route of administration and define different therapeutic range.

Clicking on the **P*** buttons, it is possible to load pratical regiments to the User regiment to adjust loading dose, maintenance dose, time interval and number of doses. User dosing regimen can be added to History screen by clicking on **Add to History** button.

