

# RIVUS

Uroflowmeter



- Diagnostics of lower urinary tract diseases
- Measurement accuracy is  $\pm 1$  ml (g)
- Wireless UFM sensor for the patient's privacy
- State-of-the-art system with a touch control and an integrated thermal printer
- Standard uroflow tests and PAD test

# **RIVUS UROFLOWMETER**

## **is the first step for the delicate problem solution**

Uroflowmetry is an essential non-invasive urodynamic test allowing quantification of the bladder function. Diagnostics of the patients with LUTS (lower urinary tract symptoms) and OAB (overactive bladder) is started from the uroflowmetry.

The uroflowmeter is intended to quantify the flow characteristics of the lower urinary tract.

## **System Components**

**Wireless uroflowmetric (UFM) module with status indicator**



**User terminal or tablet PC with Rivus software**



## Select Required Configuration

Rivus uroflowmeter is able to work both in wireless mode and using a wired connection between the UFM sensor and the terminal via USB cable. If the physician's working area and the patient's area are separated, the wireless operation is a good choice.

**Commode chair**



**Uroflow stand, funnel and urine container**



# Essential Tool for Any Urologist

## Step 1

Select the appropriate mode of operation

- Quick start mode
- Database mode

Exam data can be retrieved from the device memory any time for review, printing, comparison with the previous data and data transfer to hospital information system etc.

## Step 2

Press the button, and the test will be started automatically.

Ensure convenience and privacy, leaving the patient alone in the procedure area. As soon as a patient is ready, urination may be started. The test recording will be started automatically after an urination start. Simultaneously the flow and volume graphs will be plotted on the terminal display.

If needed, the device can be switched to the mode when the measurement is started manually by button click on the screen.

### PAD test

Uroflowmeter also performs PAD test (using urological pads); it enables measuring of the pad weight before and after the test.

PAD test allows objective assessment of involuntarily excreted urine amount. Currently PAD test is an additional option in the diagnostics of urinary incontinence. By default, the software has two options to choose from: 1-hour and 24-hour tests.

To measure the pad weight, place it into the urine container on the UFM sensor. If you know the initial pad weight, you may enter it manually into Initial pad weight field.

Patient's ar

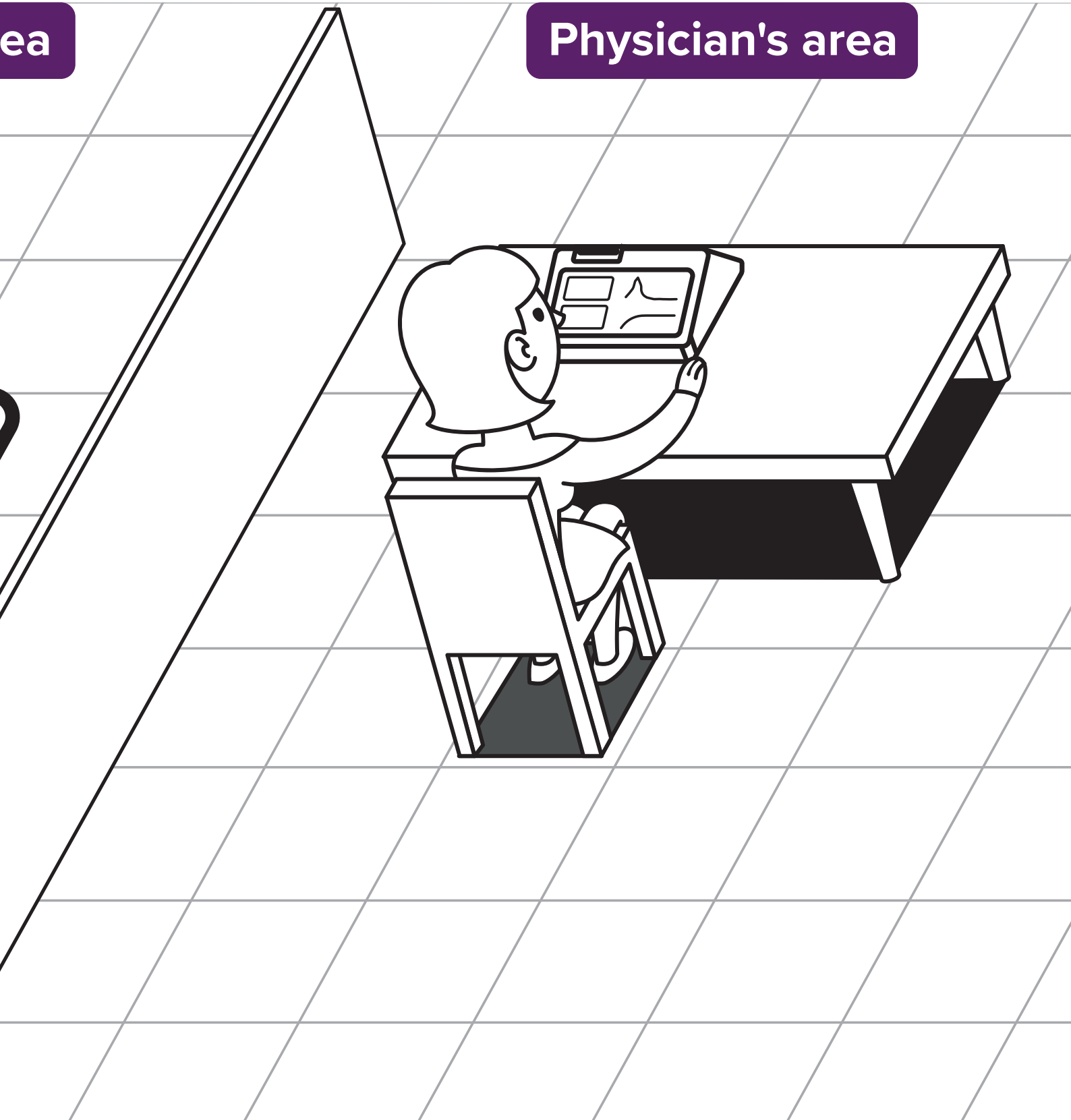


### Step 3

Get the results  
printed instantly

Rivus terminal has integrated printer. Hence the test results are printed immediately after the test and stored in the database.

When tablet PC is used instead of Rivus terminal, the standard laser or Wi-Fi printer can be used to print the test results.



# Software Capabilities

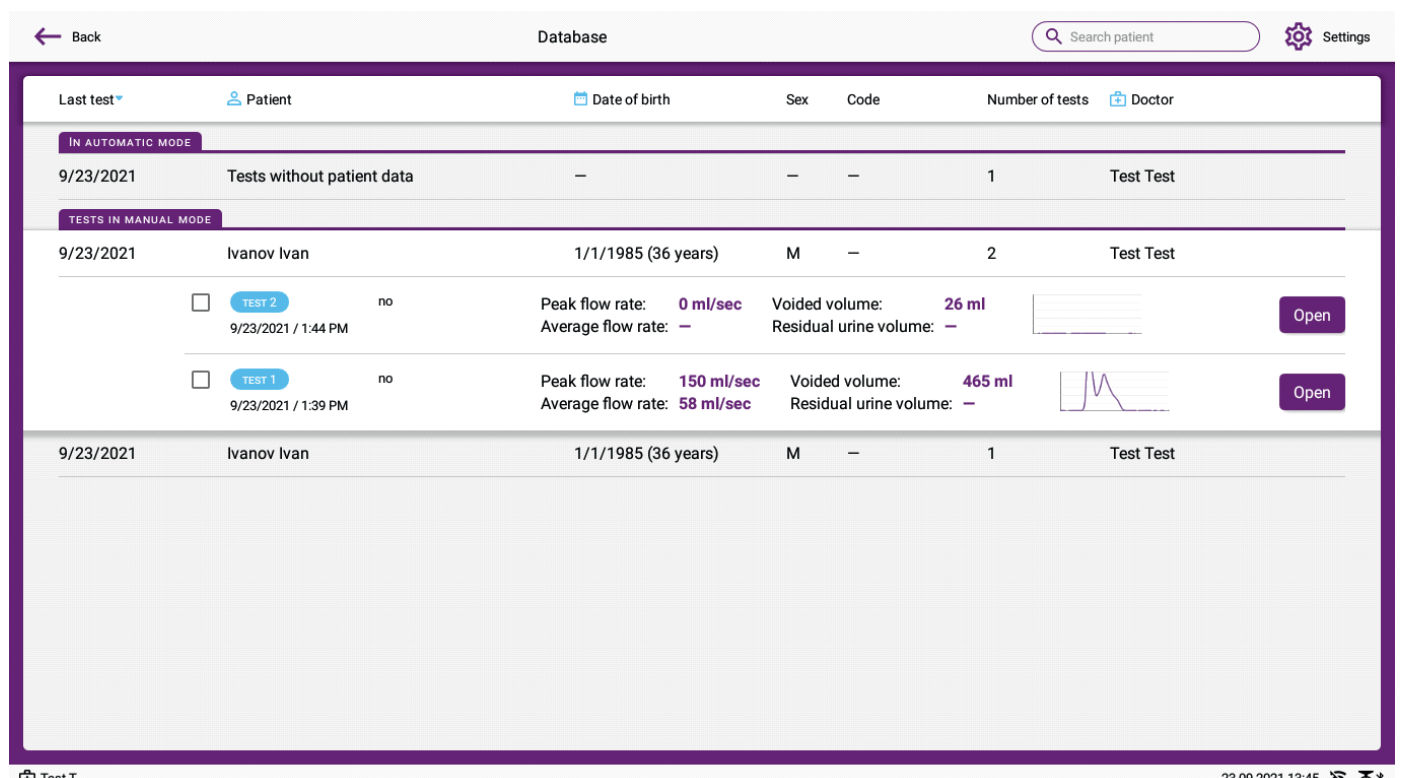
State-of-the-art and user-friendly software with outstanding features to analyze and set-up the parameters helps the physician to perform the uroflow test easily. The software converts data into the graphs, tables and nomograms and then submits it to the physician for diagnostics.

Rivus software can be run on Android platform



## How to Work with Test Database

Each test made by the uroflowmeter is saved in the test database. The software enables sorting the patients by the latest test date, name, date of birth, sex, ID, number of tests, and the operator performing the test.

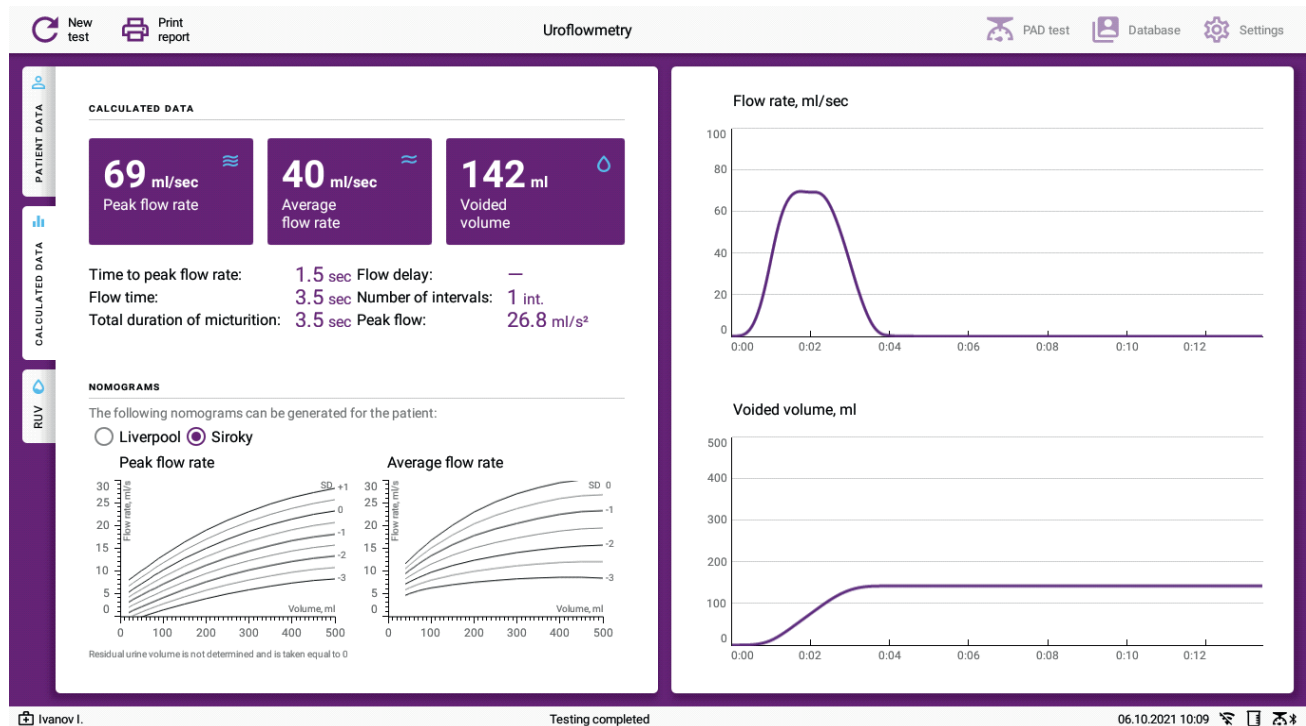


The screenshot shows the 'Database' screen of the Rivus software. At the top, there is a 'Back' button, the title 'Database', a search bar for 'Search patient', and a 'Settings' icon. Below the header, there is a table with columns: 'Last test', 'Patient', 'Date of birth', 'Sex', 'Code', 'Number of tests', and 'Doctor'. The table is divided into two sections: 'IN AUTOMATIC MODE' and 'TESTS IN MANUAL MODE'. The 'IN AUTOMATIC MODE' section shows a single test entry for '9/23/2021' with 'Tests without patient data'. The 'TESTS IN MANUAL MODE' section shows two test entries for 'Ivanov Ivan' on '9/23/2021'. Each entry includes a checkbox, a test ID (TEST 2 and TEST 1), a status 'no', and detailed flow data: Peak flow rate, Average flow rate, Voided volume, and Residual urine volume. There are also small graphs and 'Open' buttons for each test entry. At the bottom left, there is a 'Test T.' icon, and at the bottom right, the date and time '23.09.2021 13:45' along with system icons.

Last test	Patient	Date of birth	Sex	Code	Number of tests	Doctor
9/23/2021	Tests without patient data	-	-	-	1	Test Test
9/23/2021	Ivanov Ivan	1/1/1985 (36 years)	M	-	2	Test Test
<input type="checkbox"/>	TEST 2 9/23/2021 / 1:44 PM	no	Peak flow rate: 0 ml/sec Average flow rate: -	Voided volume: 26 ml Residual urine volume: -		Open
<input type="checkbox"/>	TEST 1 9/23/2021 / 1:39 PM	no	Peak flow rate: 150 ml/sec Average flow rate: 58 ml/sec	Voided volume: 465 ml Residual urine volume: -		Open
9/23/2021	Ivanov Ivan	1/1/1985 (36 years)	M	-	1	Test Test

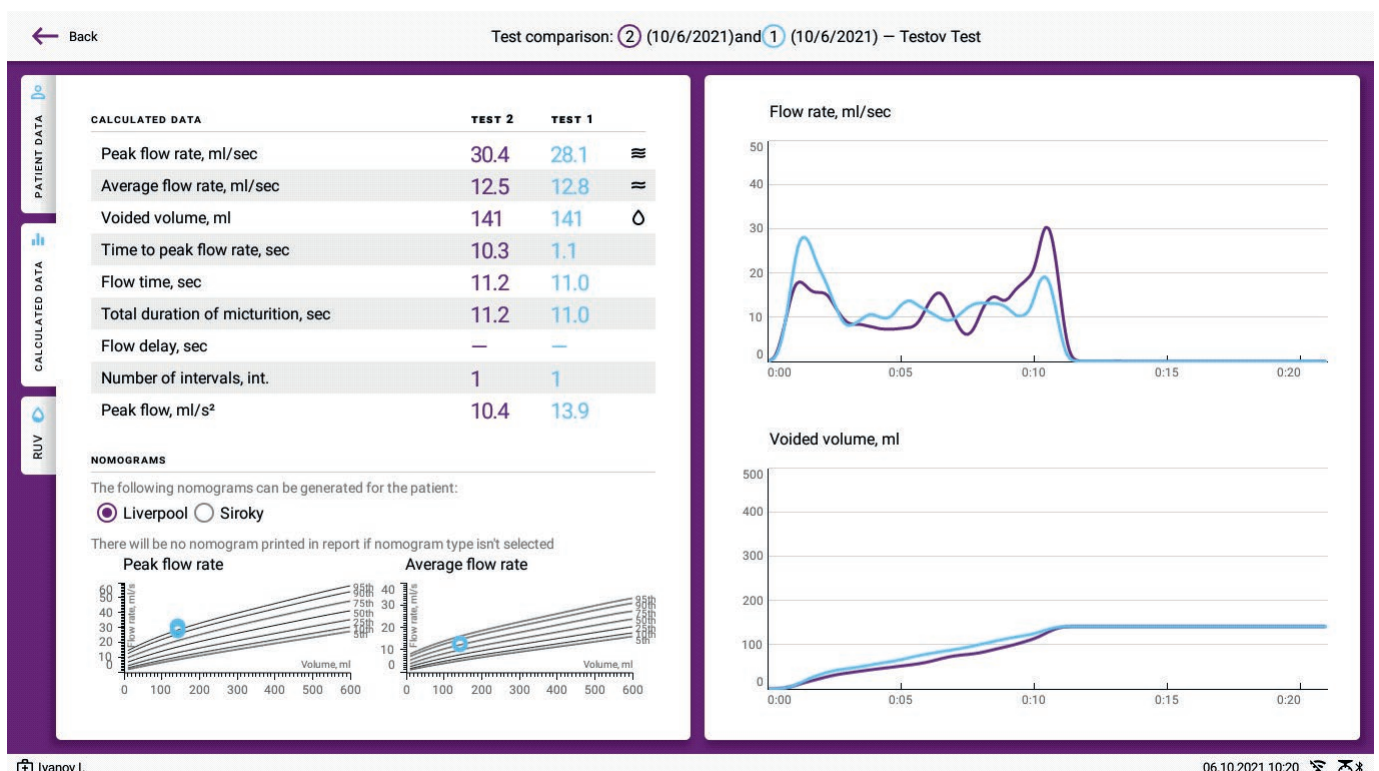
# Uroflow Test Viewing

For your convenience the plotted graphs and calculated data can be viewed. If you work in the test database mode, you may view the patient's and test data as well as residual urine volume (RUV) data.



# Uroflow Test Comparison

You may compare the plotted graphs, calculated data and nomograms for the selected tests on one display. For the tests performed in the test database mode, the patient's and test data as well as residual urine volume (RUV) can be compared. You may compare up to three uroflow tests for one patient in the test database mode.



# CAUTION:

Federal Law restricts this device to sale by or on the order of a practitioner licensed by the law of the State in which he/she practices to use or order the use of the device



[www.neurosoft.com](http://www.neurosoft.com), [info@neurosoft.com](mailto:info@neurosoft.com)  
Phone: +7 4932 95-99-99  
5, Voronin str., Ivanovo, 153032, Russia

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