



Patient Charting

User Guide

February 2019

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Introduction

The Patient Charting functionality has been enhanced to enable the user to enter a wider range of test results and patient specific measures. The functionality is available in Version 10 Service Pack 16 and higher.

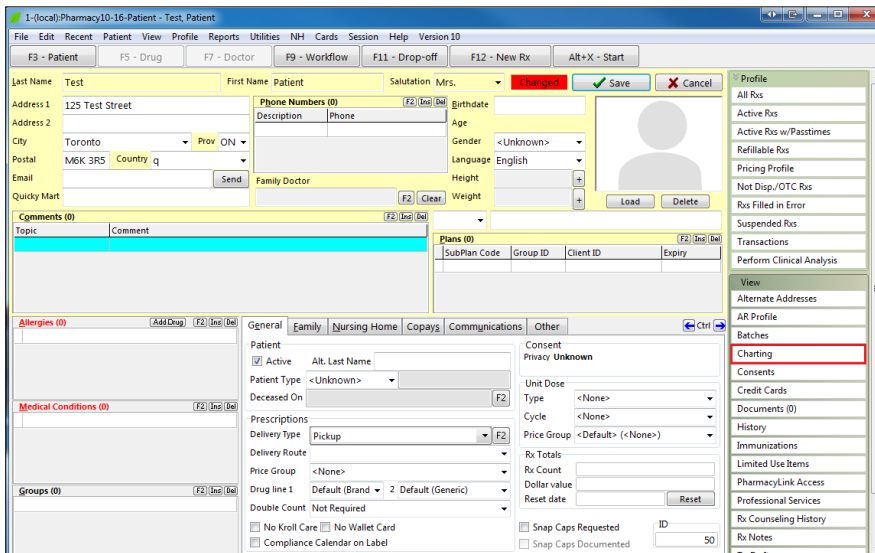
Below is a complete list of all the values that can be inputted by the user.

Blood Flow	Glucose
Cholesterol	Creatinine
Hematology	White Blood Cell Count/Differential
Weight	Height
BMI	Body Fat
Serotonin	Albumin
Alkaline Phosphatase	Amylase
Alanine Aminotransferase	Vitamin B12
Bilirubin	Blood Urea Nitrogen
Blood Urea Nitrogen	Chloride
Creatinine Phosphokinase	Follicle Simulation Hormone
Hemoglobin A1c	Hematocrit
Hemoglobin	Human Chorionic Gonadotropin
Iron	Lactate Dehydrogenase
Luteinizing Hormone	Lipase
Apolipoprotein A1	Apolipoprotein B
Magnesium	Red Blood Cell Indices
Catecholamine	Procainamide and N-acetylprocainamide
Potassium	Progesterone
Prolactin	Total Protein
Sodium	Testosterone
Thyroid Hormones	Thyroid Stimulating Hormone
Calcium	Urea
Uric Acid	Phosphate
Body Temperature	C-Reactive Protein
High Sensitivity C-Reactive Protein	Platelets

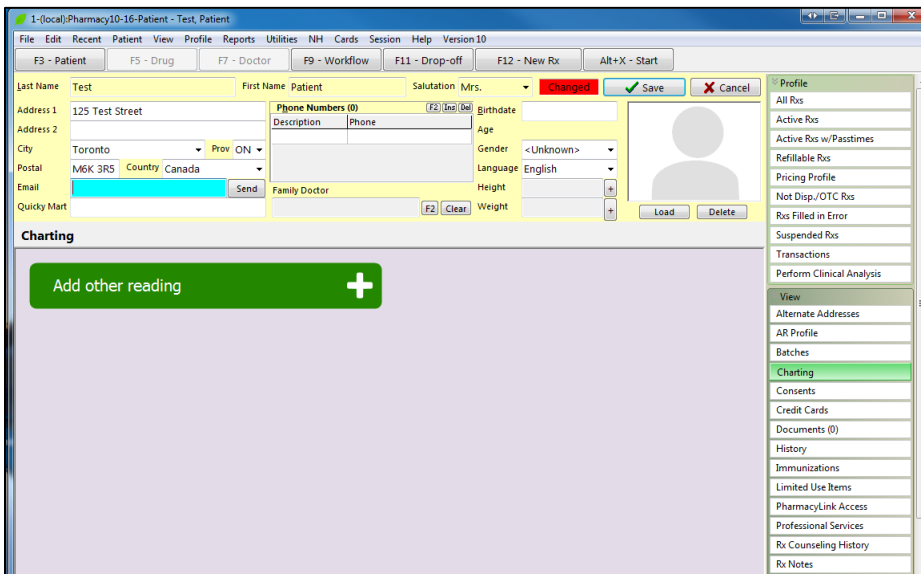
Accessing Patient Charting

The steps below can be used for any reading you wish to add or modify.

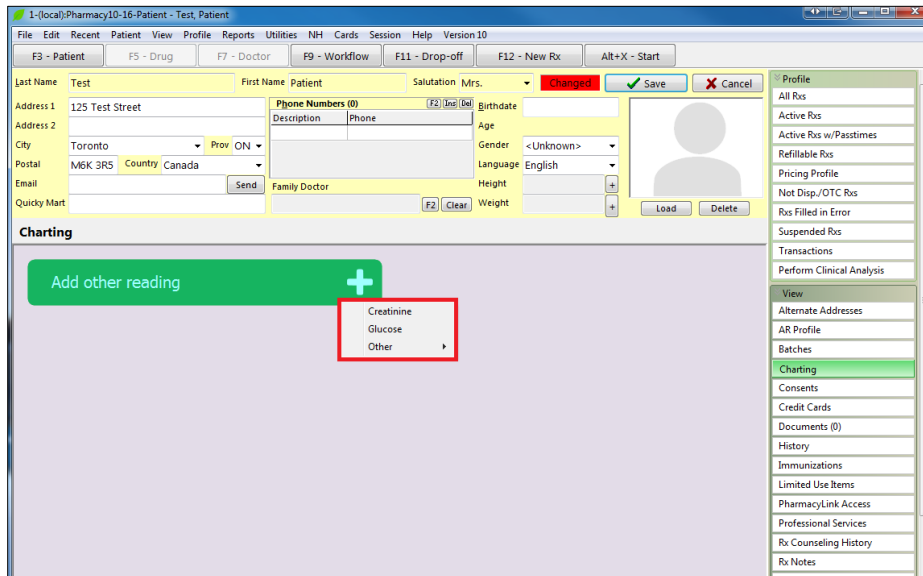
1. From the patient card, navigate to the right 'View' panel and select 'Charting' or, press **CTRL-T** on your keyboard.



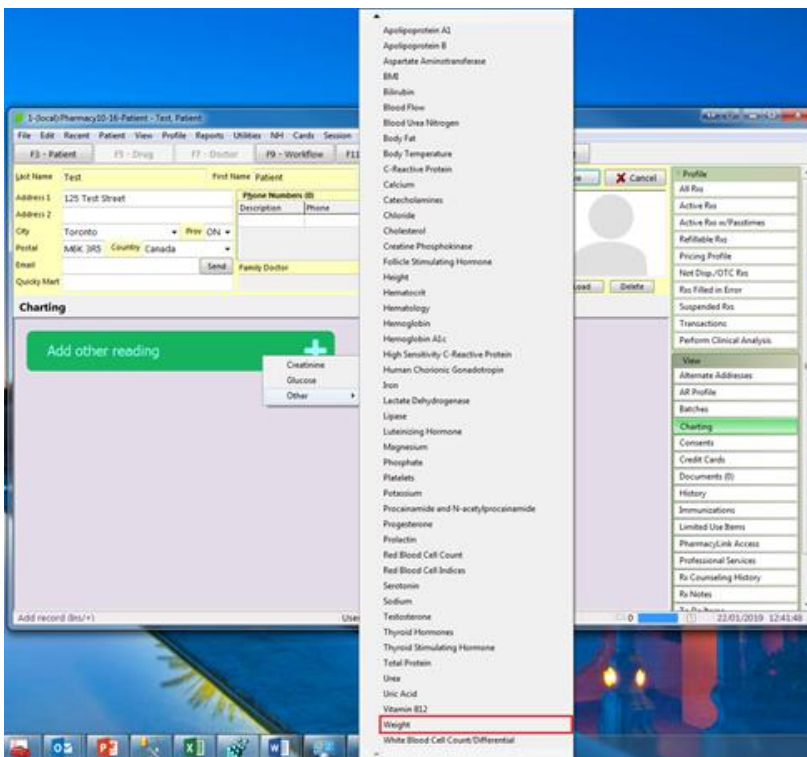
2. The charting section will display below the yellow patient details section as shown below.



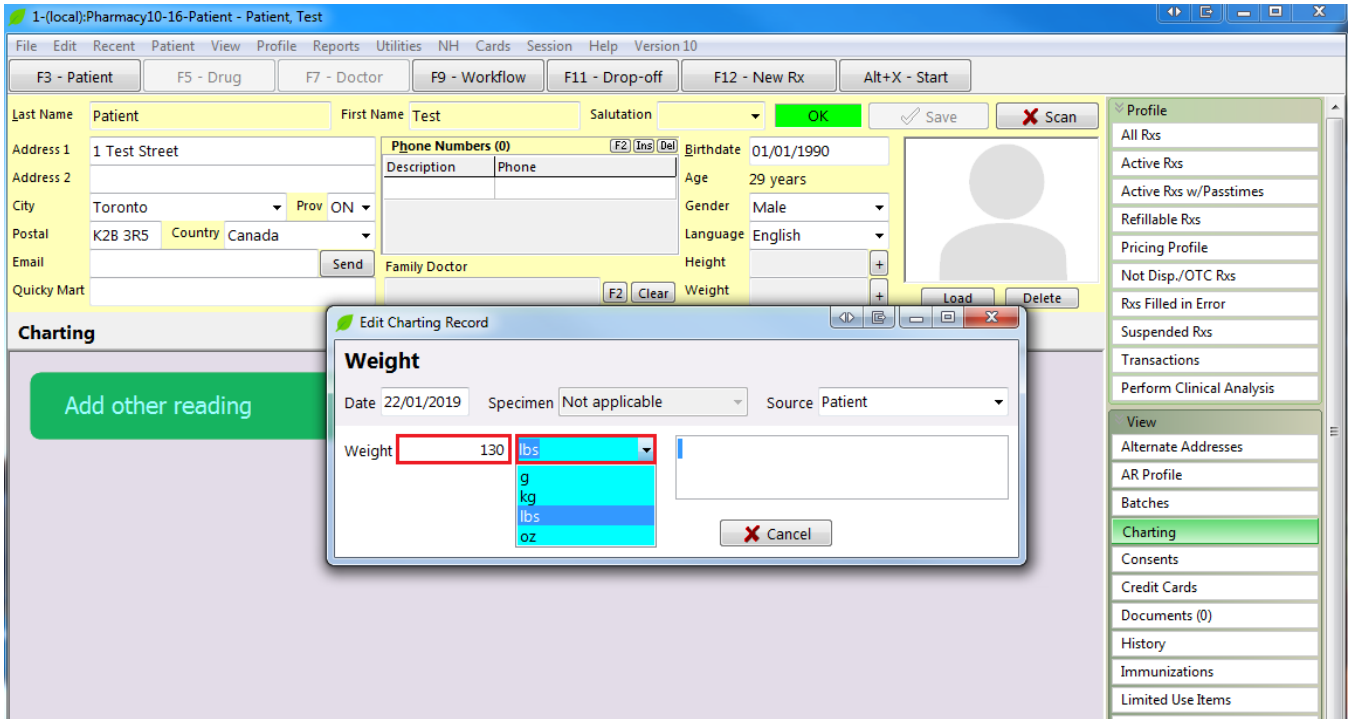
3. Select the green 'Add other reading' button. The most common lab values inputted by the user will be displayed first in alphabetical order.



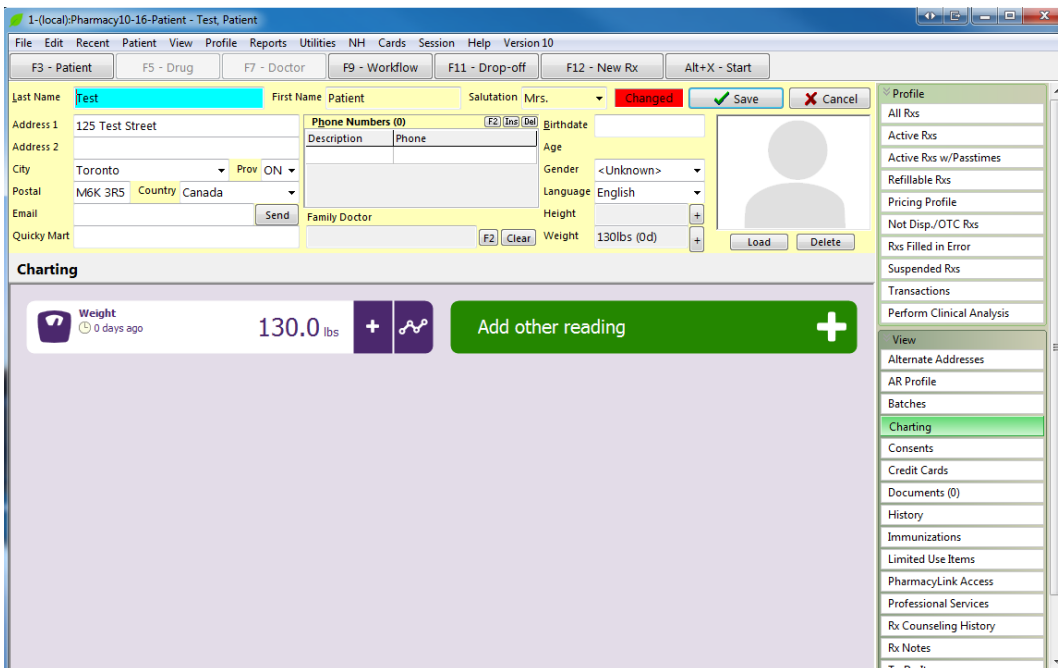
4. The user can also choose the 'Other' option to choose the desired value. For example, select the 'Weight' value.



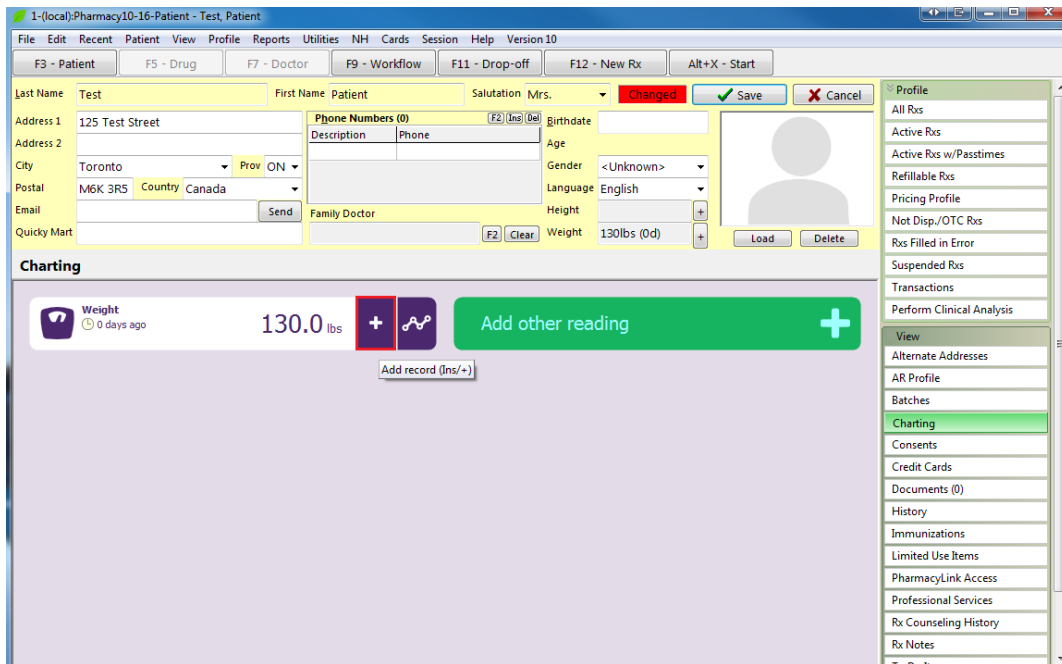
- The 'Edit Charting Record' screen will display. Enter the 'Weight' value and select a unit of measure from the drop down menu, in this example, '130' and 'lbs' were used respectively. Click 'Save'.



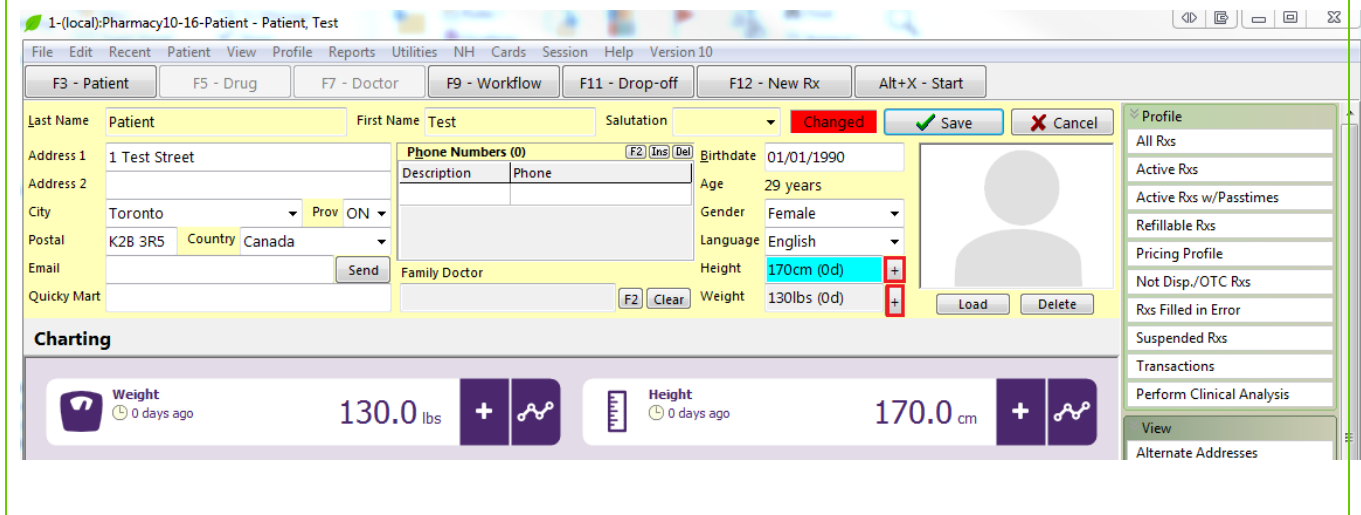
- The weight value will now display in the 'Charting' area of the patient card.



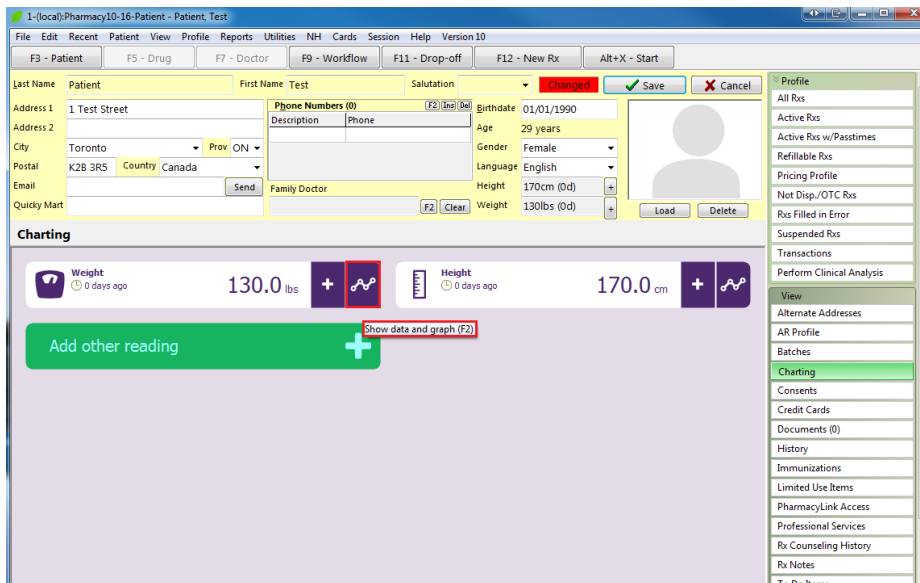
- The '+' icon allows the user to add a new value and the 'Edit Charting Record' screen will display again.



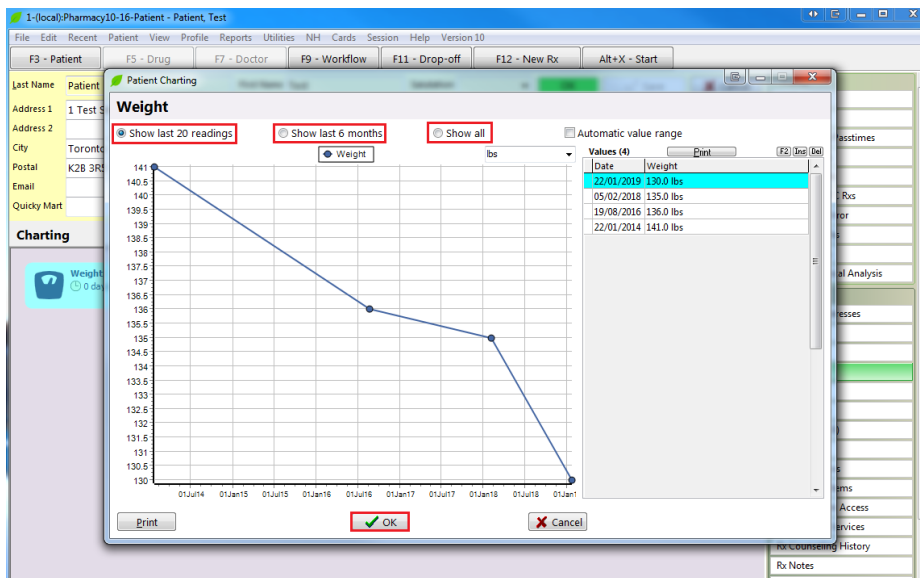
NOTE: The 'Height' and 'Weight' fields when displayed in the patient card will show the most recent changes to these values. To make changes, the user can click the '+' beside these fields and will be directed to the 'Edit Charting Record' screen identical as to when they are adding a height or weight value from the 'Charting' screen. Below, the Height (170cm) has been added from the '+' beside the Height field and now also shows in the Charting section. Also note that the age of the reading is shown for every charting value.



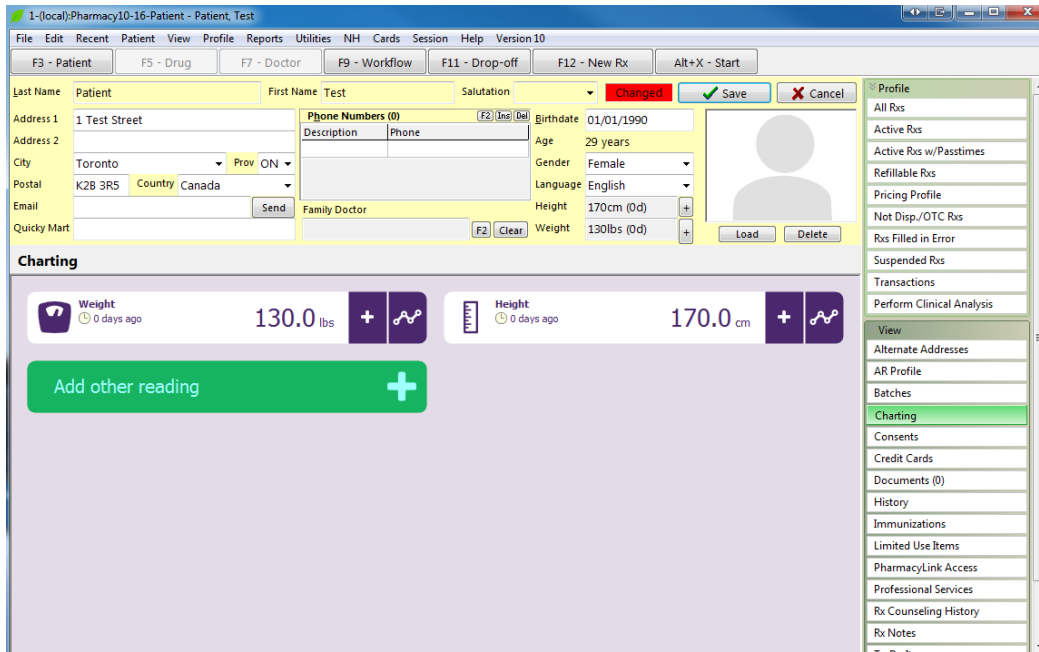
- The graph icon will display the values in a graph.



- From the 'Patient Charting' screen, the values will be displayed in a graph. As shown, the user has the ability to view the patient's weight changes through time. The user has the option to 'Show last 20 readings', 'Show last 6 months' or 'Show all'. Once the user is finished viewing the graph, they can click 'Ok'.

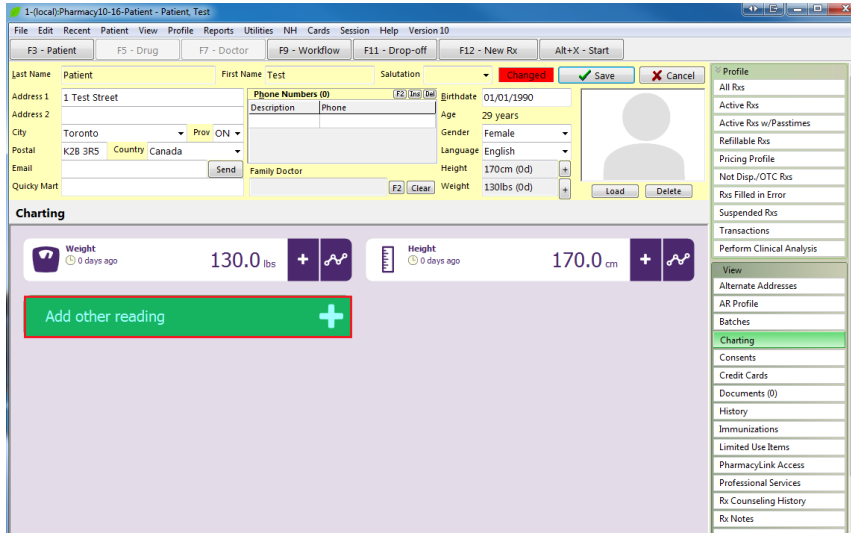


10. The user is brought back to the 'Charting' screen where they can add multiple readings.

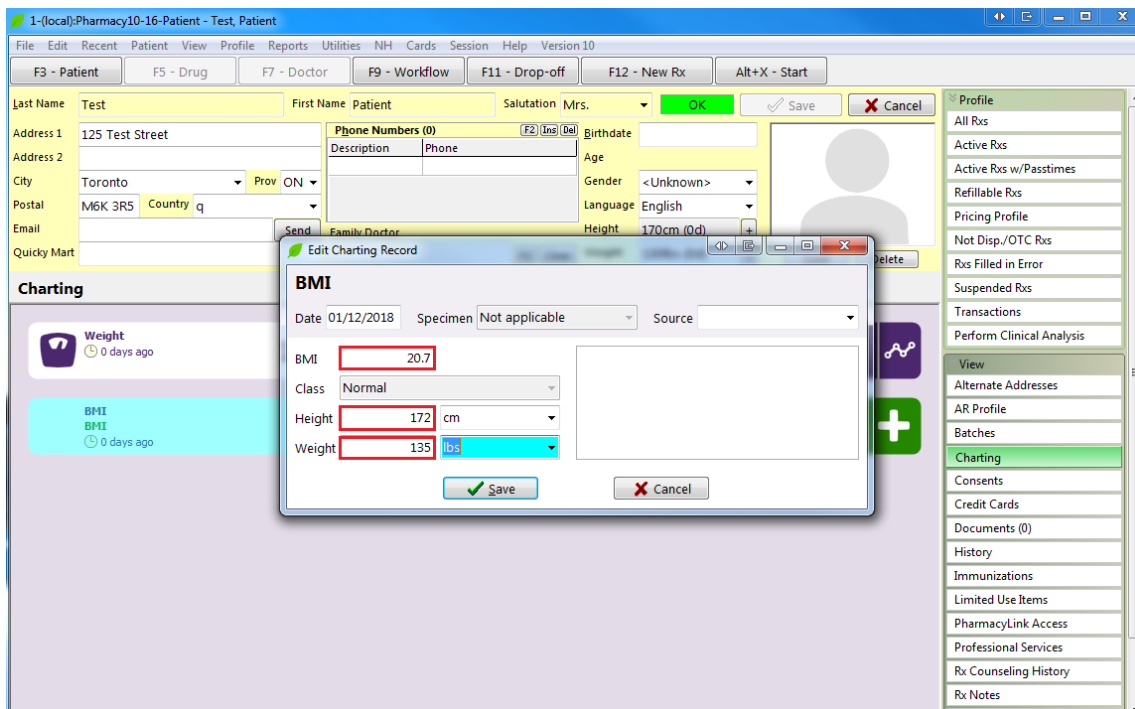


Scenario 1: Body Mass Index (BMI)

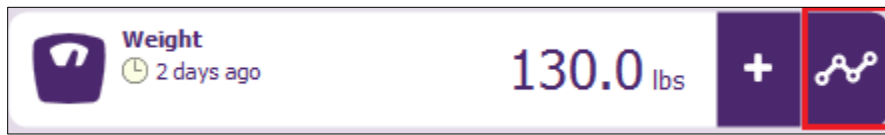
1. From the 'Charting' screen, select 'Add other reading'.



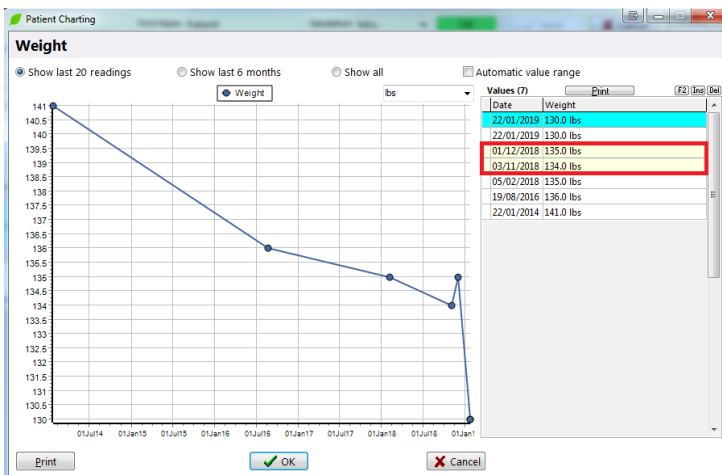
2. The 'Edit Charting Record' screen displays. You can optionally enter the BMI value directly if it is known or you can leave that field blank and enter the height and weight. If the BMI field was left empty, the BMI value will automatically be calculated. Click 'Save'.



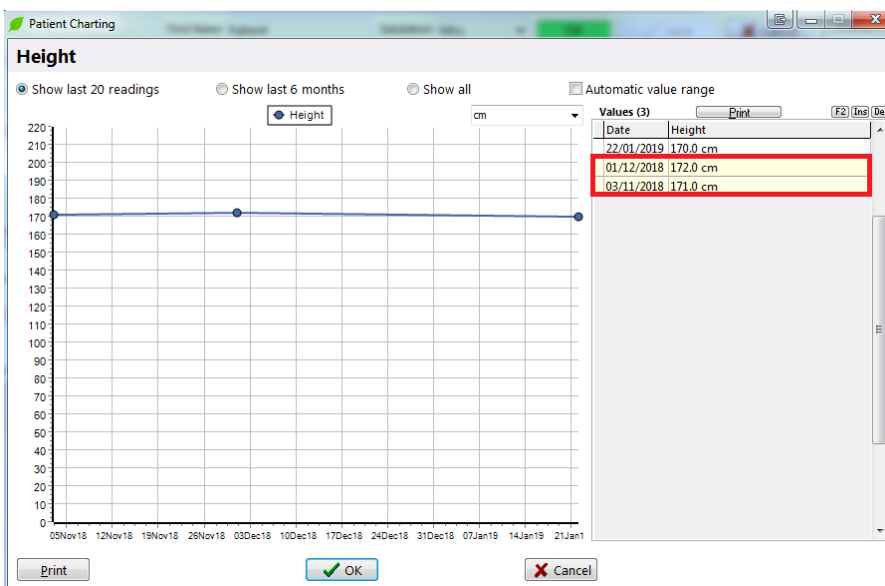
- You will be brought back to the 'Charting Screen'. From the 'Weight' block, select the graph icon.



- The values shown with a muted yellow background indicate that these were entered under a different chart. While you can view them here, you cannot edit them. If you need to make changes or delete these yellow items, you must return to the source chart.



- The Height values entered under the BMI chart can also be viewed in the same way under the main Height chart as shown below when viewing the graph.



Scenario 2: Hemoglobin A1c

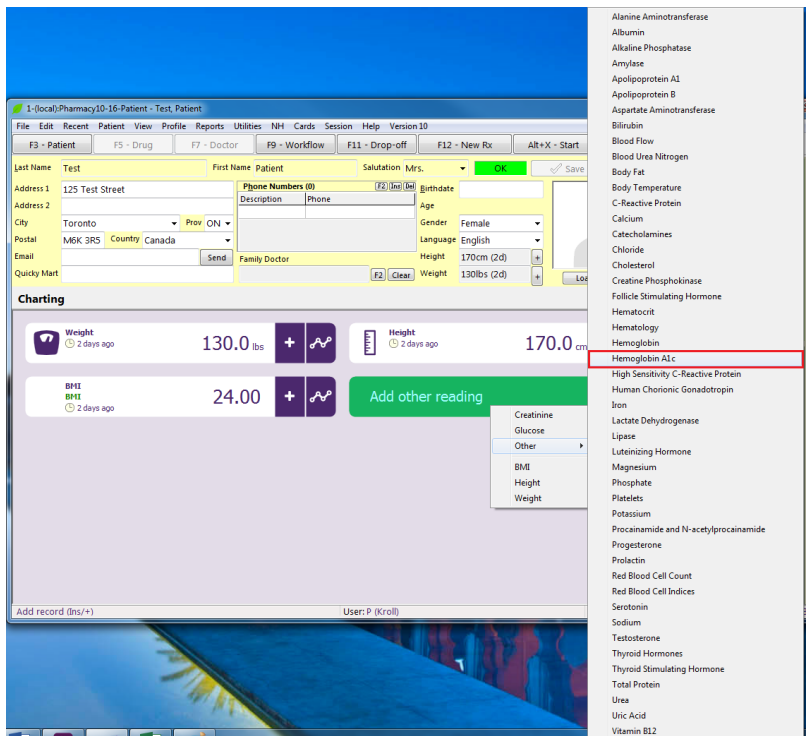
1. From the patient card, navigate to the right 'View' panel and select 'Charting' or, press **CTRL-T** on your keyboard.

The screenshot shows the '1-(local)-Pharmacy10-16-Patient - Test, Patient' window. The 'View' panel on the right side of the window is expanded, and the 'Charting' option is highlighted with a red box. The main patient details section is visible, including fields for Last Name (Test), First Name (Patient), Salutation (Mrs.), Address (125 Test Street), City (Toronto), Postal (M6K 3R5), and Country (Canada). The 'Medical Conditions' and 'Allergies' sections are currently empty.

2. The charting section will display below the yellow patient details section as shown below. Select the green box labeled 'Add other reading'.

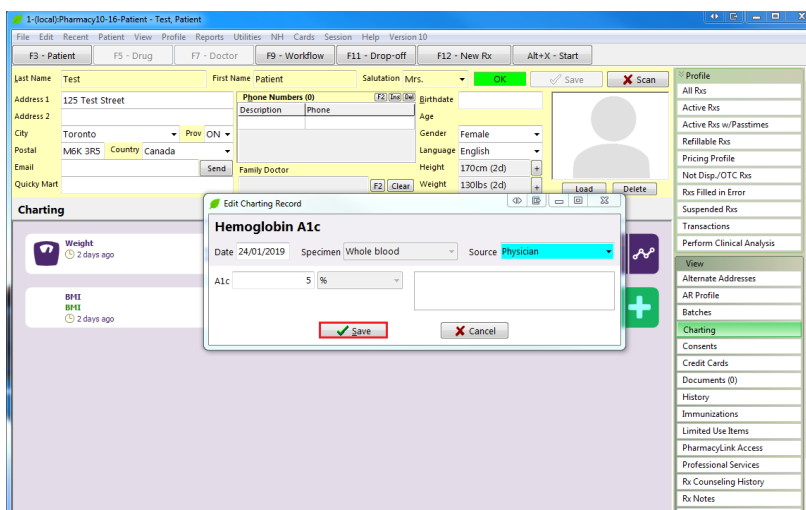
The screenshot shows the same patient profile window, but now the 'Charting' section is visible below the patient details. The 'Charting' section displays three data points: Weight (130.0 lbs, 2 days ago), Height (170.0 cm, 2 days ago), and BH1 (24.00, 2 days ago). A green box with a white plus sign and the text 'Add other reading' is highlighted with a red box. The 'View' panel on the right is still expanded, and 'Charting' is now highlighted in green.

3. Select 'Other' then 'Hemoglobin A1c'.



NOTE: When the user first clicks on 'Add other reading', the charting values that have already been used are displayed automatically as first options. In this case, since the 'BMI', 'Height' and 'Weight' values have already been modified, therefore, they are displayed first as shown above.

4. The 'Edit Charting Record' screen will display. Enter the 'A1c' percentage and select 'Save'.



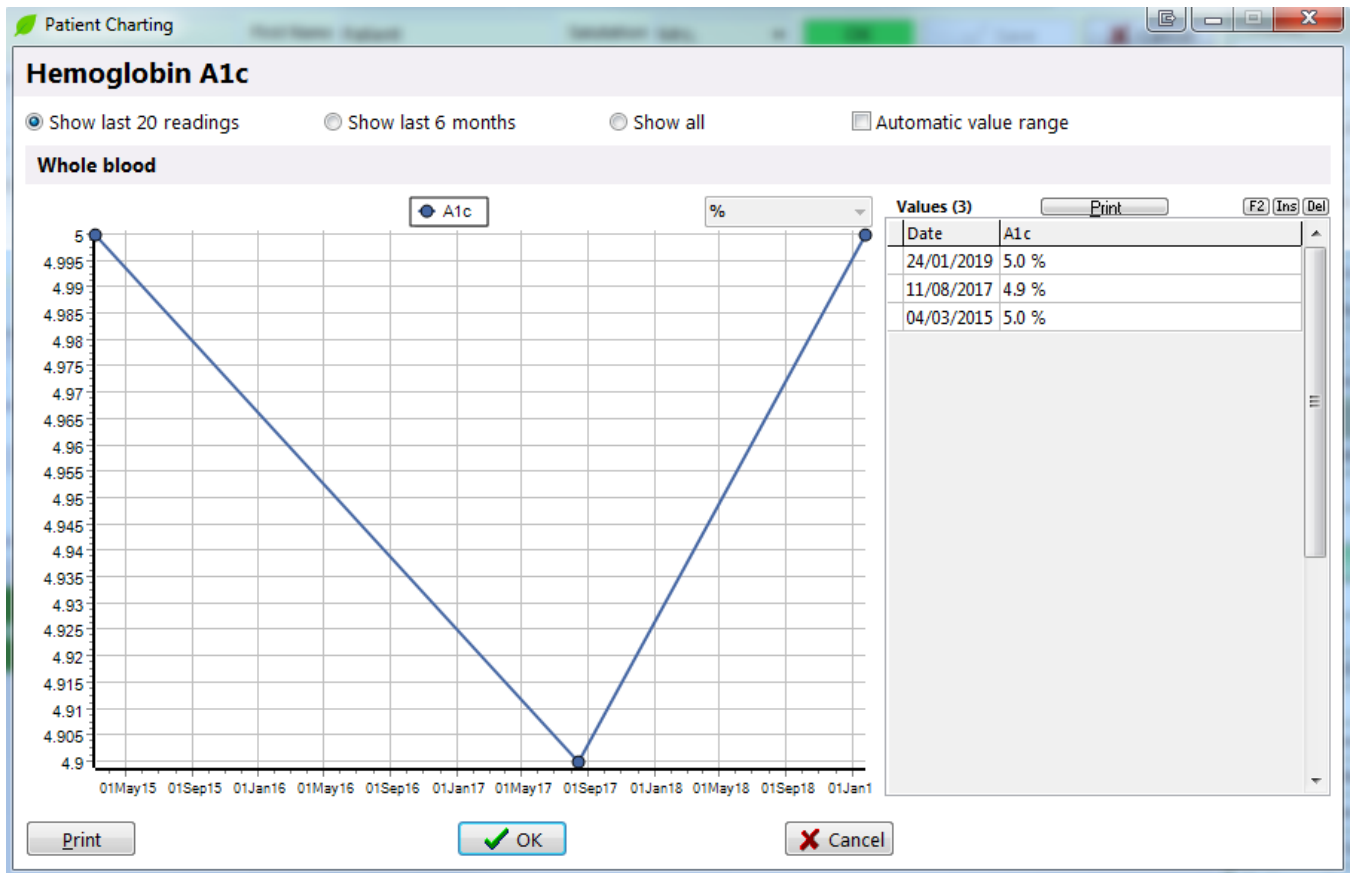
- The 'Hemoglobin A1c' value has been added to the 'Charting' screen.

The screenshot shows the 'Charting' section of a patient's profile. The patient's name is 'Test, Patient' and their address is '125 Test Street, Toronto, ON, Canada'. The charting area displays four data points: Weight (130.0 lbs), Height (170.0 cm), BMI (24.00), and Hemoglobin A1c (5.0%). Each data point has a plus sign and a graph icon. A green button labeled 'Add other reading' is visible at the bottom of the charting area. The right sidebar shows a list of profile categories, with 'Charting' highlighted.

- Click on the graph icon of the 'Hemoglobin A1c' chart to view all the values in a graph.

This screenshot is similar to the previous one, but the 'Hemoglobin A1c' data point is highlighted in light blue. The graph icon next to it is also highlighted, indicating it is the selected element. A tooltip 'Show data and graph (F2)' is visible over the graph icon. The 'Charting' area and sidebar remain the same as in the previous screenshot.

7. In this example, all the 'Hemoglobin A1c' values are displayed in the graph.



NOTE: When the mouse cursor is on the graph, the cursor will change as a double-headed arrow. This allows users to click and drag on the graph to view older or newer values.

Scenario 3: Cholesterol and Triglycerides

The Cholesterol and Triglycerides serum values are stated below.

Cholesterol LDL (Low-density Lipoprotein)

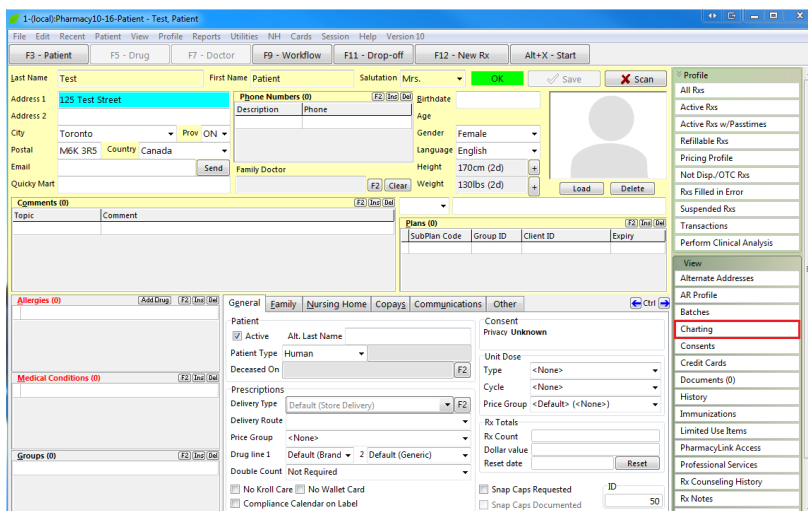
Cholesterol HDL (High-density Lipoproteins)

Cholesterol TC (Total Cholesterol)

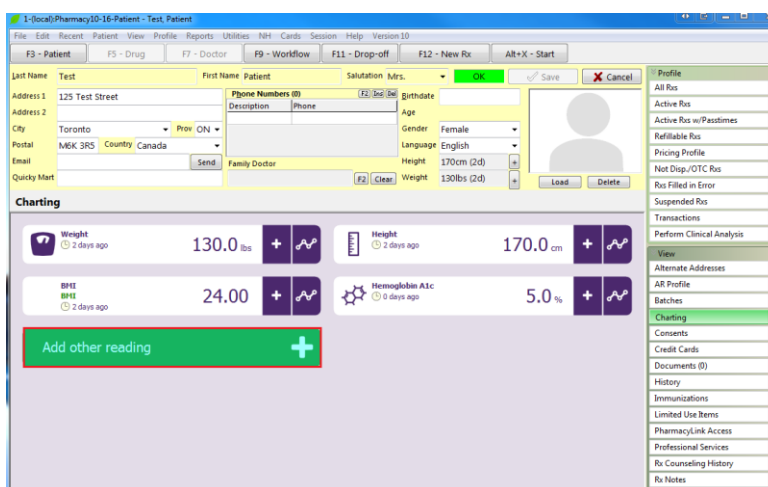
Cholesterol TRIG (Triglycerides)

Cholesterol VLDL (Very low Density Lipoprotein)

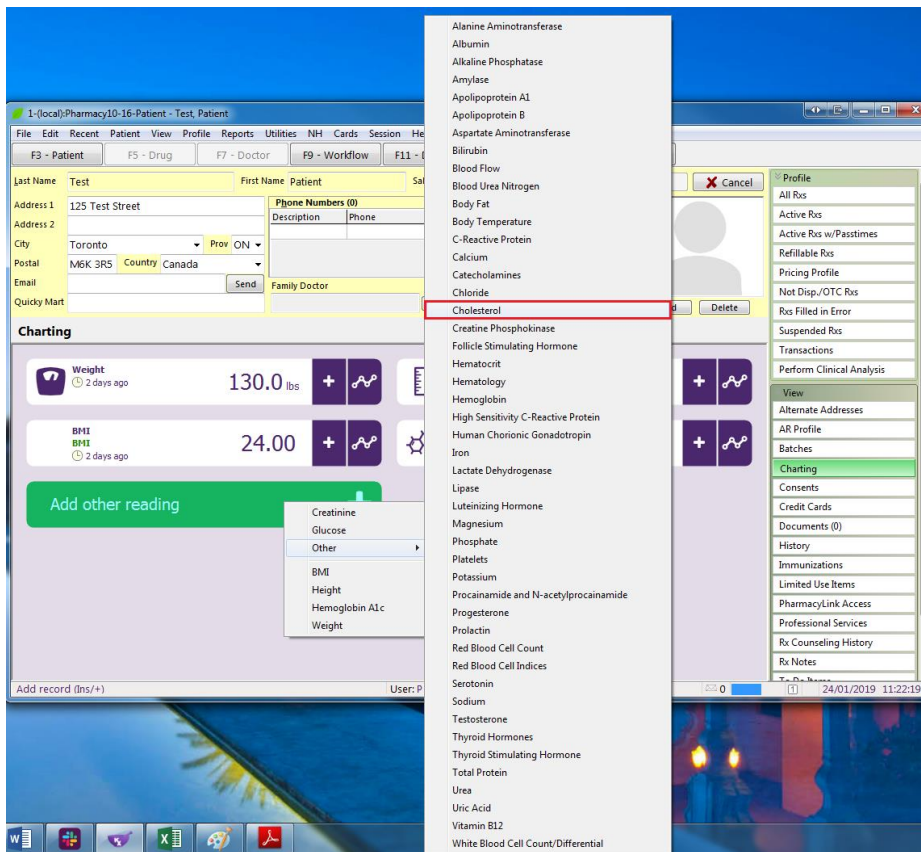
- From the patient card, navigate to the right 'View' panel and select 'Charting' or, press **CTRL-T** on your keyboard.



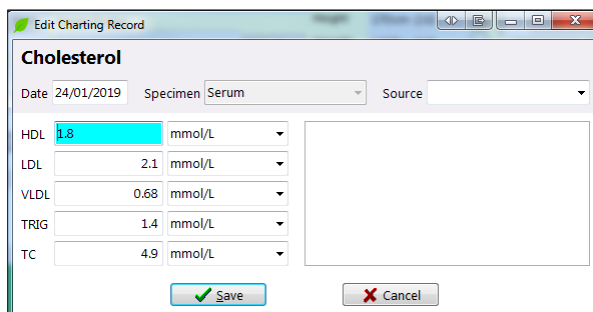
- The charting section will display below the yellow patient details section as shown below. Select the green box labelled 'Add other reading'.



3. Select 'Other' then 'Cholesterol'.



4. Enter your values in the fields you desire and click 'Save'. In this example, all the cholesterol values were entered as shown below.



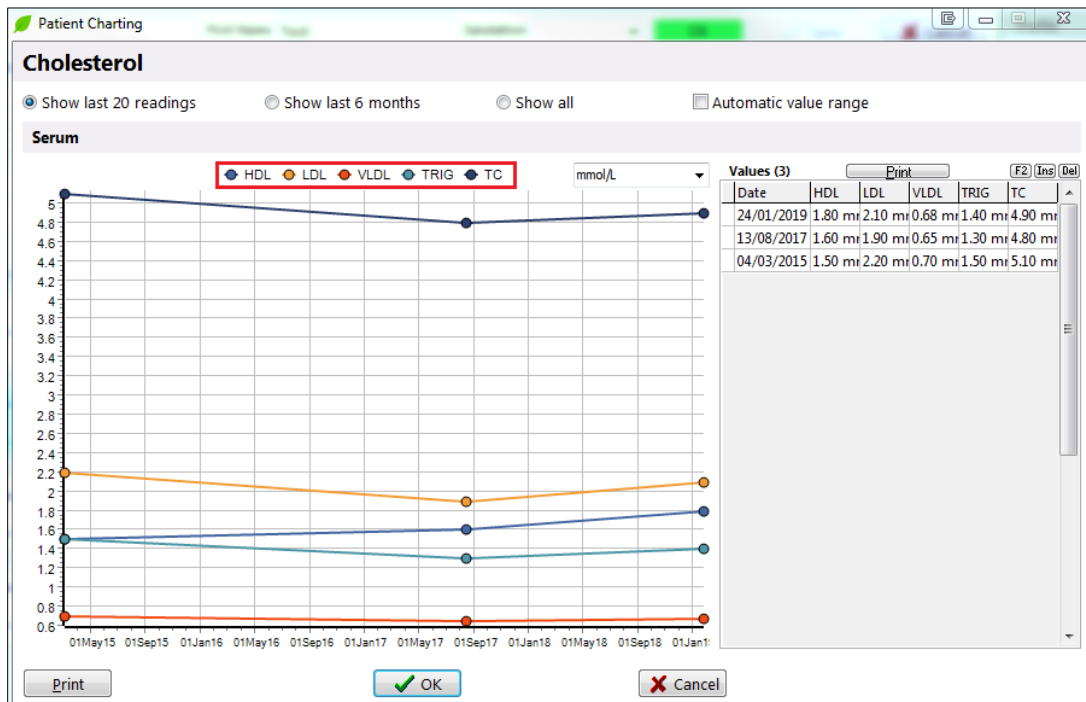
- The 'Charting' screen will display with all the cholesterol values shown individually: 'Cholesterol LDL', 'Cholesterol TRIG', 'Cholesterol HDL', 'Cholesterol VLDL', 'Cholesterol TC'. However, when selecting the graph icon beside any of the cholesterol values, all the five cholesterol values will display if applicable.

The screenshot shows a patient charting interface for a patient named 'Yest'. The interface includes a menu bar, a patient information section, and a 'Charting' section. The 'Charting' section displays several vital signs and cholesterol values, each with a graph icon. The values are:

- Weight: 130.0 lbs
- BMI: 24.00
- Cholesterol LDL: 2.10 mmol/L
- Cholesterol TRIG: 1.40 mmol/L
- Hemoglobin A1c: 5.0%
- Height: 170.0 cm
- Cholesterol HDL: 1.80 mmol/L
- Cholesterol VLDL: 0.68 mmol/L
- Cholesterol TC: 4.90 mmol/L

There is an 'Add other reading' button at the bottom of the charting section.

- In this example, the 'Cholesterol HDL' graph icon is selected. All cholesterol values are displayed in the 'Cholesterol HDL' graph through time. The cholesterol values are distinguished by their own respective colors specified in the legend on top of the graph.



Scenario 4: Creatinine

1. From the patient card, navigate to the right 'View' panel and select 'Charting' or, press **CTRL-T** on your keyboard.

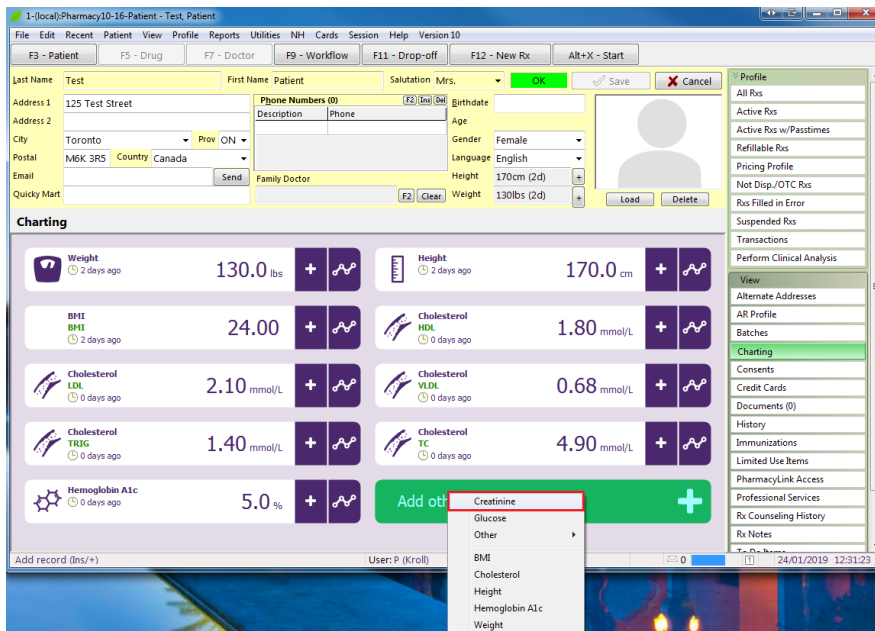
The screenshot shows the '1-local:Pharmacy10-16-Patient - Test, Patient' window. The 'View' panel on the right is expanded, and 'Charting' is highlighted in red. The main patient information area shows details for 'Test, Patient', including address (125 Test Street), city (Toronto), and various demographic fields like age, gender, and height.

2. The charting section will display below the yellow patient details section as shown below. Select the green box labelled 'Add other reading'.

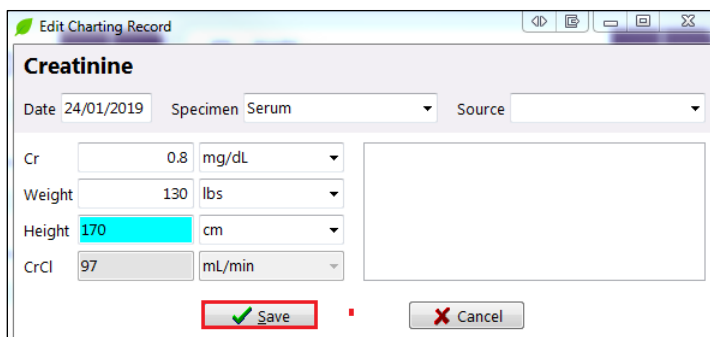
The screenshot shows the 'Charting' section below the patient details. It displays various vital signs and lab results in a grid format. At the bottom of the grid, there is a green button labeled 'Add other reading' with a plus sign, which is highlighted with a red box. The charting data includes:

Measurement	Value	Unit
Weight	130.0	lbs
Height	170.0	cm
BMI	24.00	
Cholesterol HDL	1.80	mmol/L
Cholesterol LDL	2.10	mmol/L
Cholesterol VLDL	0.68	mmol/L
Cholesterol TRIG	1.40	mmol/L
Cholesterol TC	4.90	mmol/L
Hemoglobin A1c	5.0	%

3. Select 'Creatinine'.



4. For this example, the 'Specimen' is set to 'Serum' and the value is measured in mg/dL. The 'Weight' and 'Height' fields have also been populated. Once these values have been inputted, the 'CrCl' (Creatinine Clearance) will automatically be calculated. In this case, the 'CrCl' value obtained is 97 mL/min. Click 'Save'.



NOTE: The weight and height are only optionally entries on this chart but if entered, the CrCl (Creatinine Clearance) is also calculated. The CrCl is calculated based on the formula you have selected under **File > Configuration > Store > Patient > Creatinine Clearance Equation**. However, it is not mandatory and if inputted, the weight and height will be displayed in their respective graphs and updated on the patient card if it is the newest reading.

- The Creatinine value will display in the charting screen. As shown below, there is an 'S' icon below 'Creatinine' specifying that it is a serum value. Inversely, if the 'Specimen' selected is 'Urine' a 'U' icon will be displayed instead of an 'S'.

The screenshot shows a software interface for patient charting. At the top, there is a menu bar with options like File, Edit, Patient, View, Profile, Reports, Utilities, NH, Cards, Session, and Help. Below the menu is a toolbar with buttons for F3 - Patient, F5 - Drug, F7 - Doctor, F9 - Workflow, F11 - Drop-off, F12 - New Rx, and Alt+X - Start. The main area is divided into several sections:

- Patient Profile:** Includes fields for Last Name (Test), First Name (Patient), Salutation (Mrs.), Address 1 (125 Test Street), Address 2, City (Toronto), Postal (M6K 3R5), Country (Canada), Email, and Family Doctor. There are also fields for Birthdate, Age, Gender (Female), Language (English), Height (170cm), and Weight (130lbs).
- Charting:** A grid of lab results with icons for each:
 - BMI: 24.00 (2 days ago)
 - Cholesterol HDL: 1.80 mmol/L (0 days ago)
 - Cholesterol LDL: 2.10 mmol/L (0 days ago)
 - Cholesterol VLDL: 0.68 mmol/L (0 days ago)
 - Cholesterol TRIG: 1.40 mmol/L (0 days ago)
 - Cholesterol TC: 4.90 mmol/L (0 days ago)
 - Creatinine: 0.8 mg/dL (0 days ago) - Note the 'S' icon below the value, indicating a serum specimen.
 - Hemoglobin A1c: 5.0% (0 days ago)
- Right Panel:** A sidebar menu with categories like Profile, View, and others. The 'Charting' option is highlighted.
- Bottom:** A green button labeled 'Add other reading' with a plus sign icon.