



bedfont GastroCHART Software User Manual

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Our family, innovating health, for yours.

Welcome to GastroCHART™

This manual outlines the basic functionality of the software, and guides the user through how to use each function. GastroCHART™ can be used with Gastro+™ and the GastroCH₄ECK® Gastrolyzer® to store, download and analyze results.

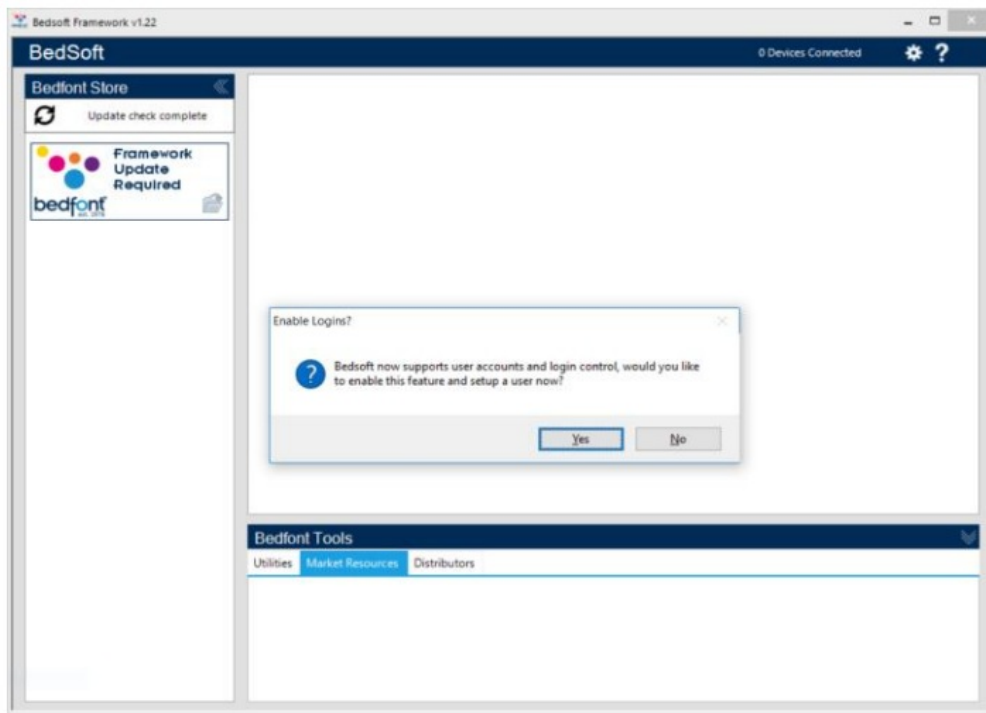
For further information about the Gastro+™ and GastroCH₄ECK® monitors, please see the printable manuals which can be accessed via the help menu within the software.

NOTE: Only technical data and no patient data is collected by Bedfont®.

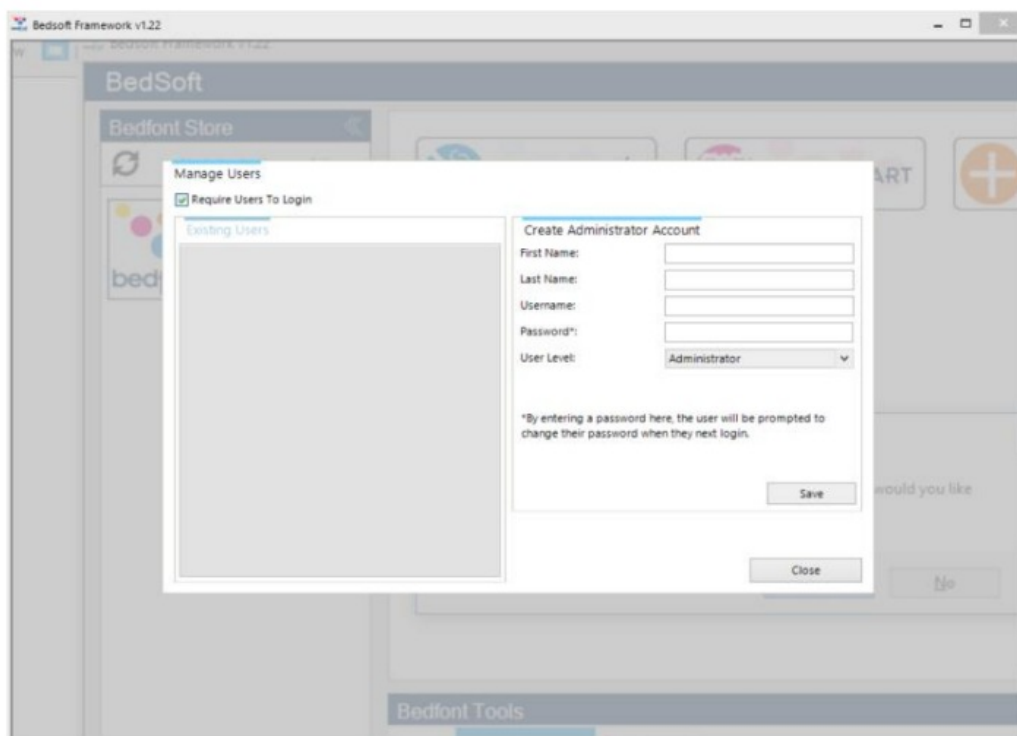
Installation

To access GastroCHART™, the Bedsat framework software must first be downloaded and installed.

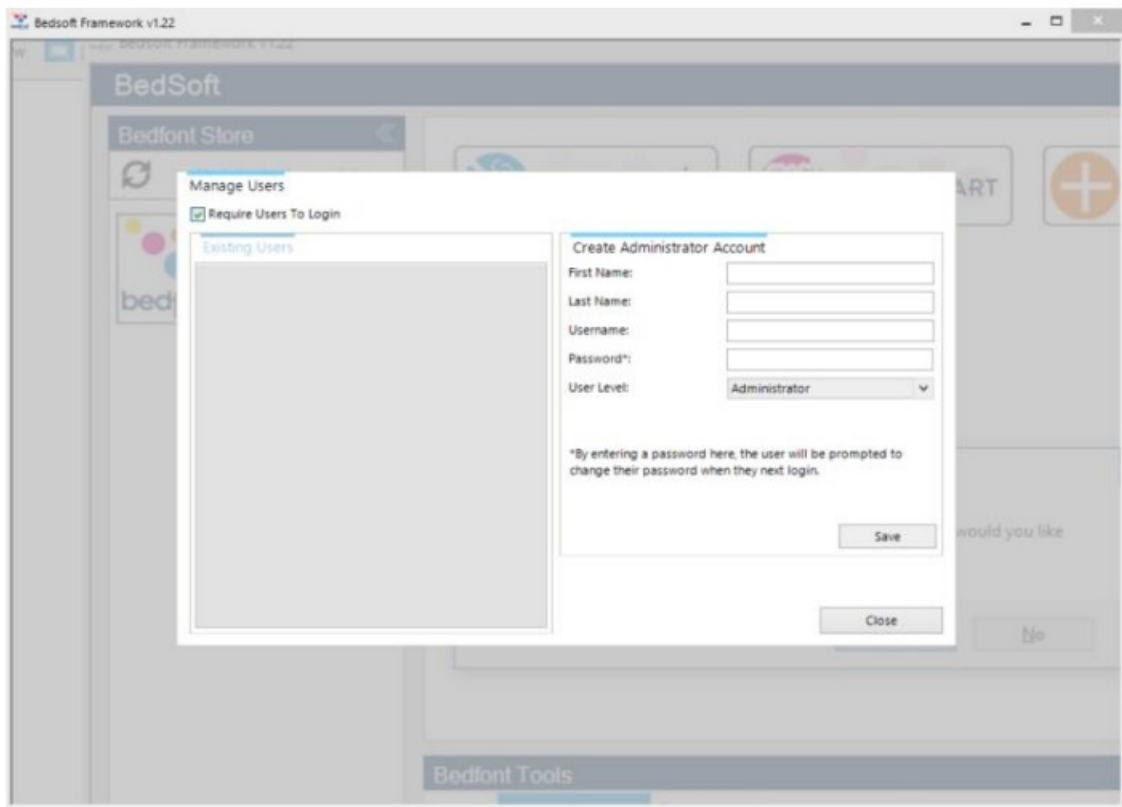
It is recommended that this software is downloaded and installed on a stand-alone computer, not connected to a network, to ensure optimum patient data security. If this software will be installed on a shared network, please ensure that both a domain account and a Bedsat product account with a secure password has been set up to protect patient data.



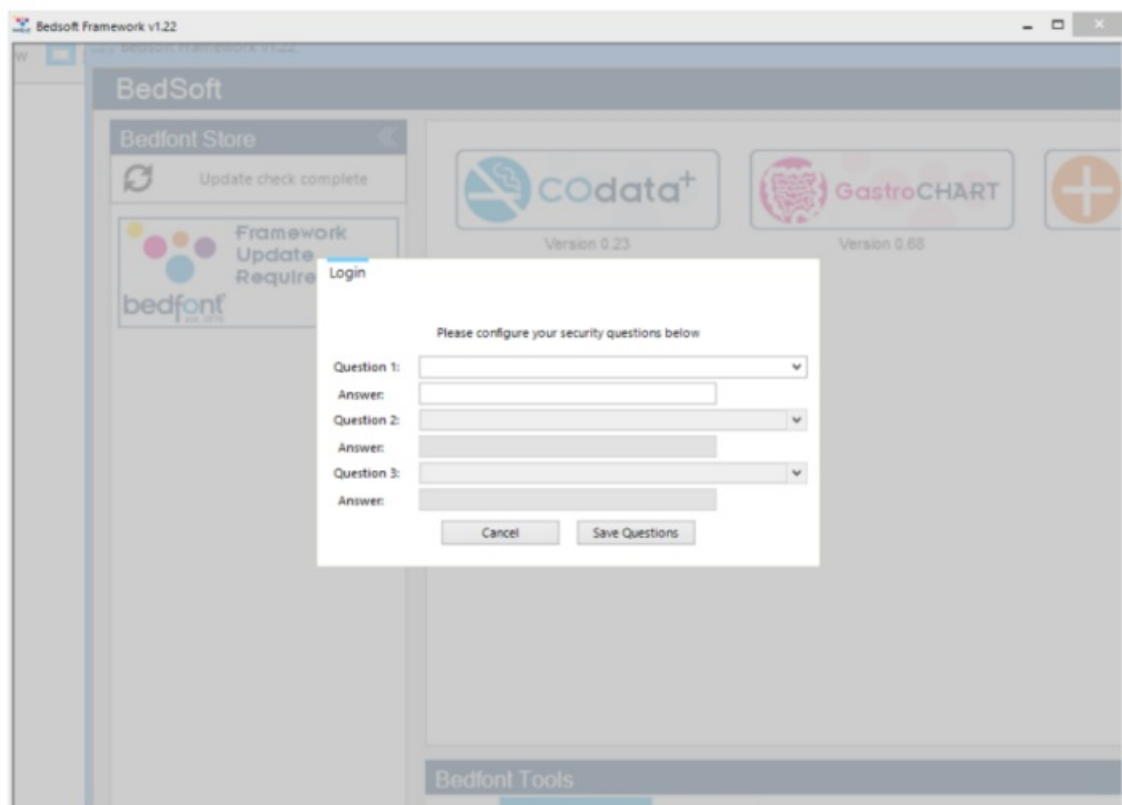
Bedsat has been updated to conform to the new GDPR standards, which means it now includes accounts and passwords to help limit unnecessary access to patient information. Once Bedsat has been installed and updated, a prompt will appear asking if user accounts are to be set up.



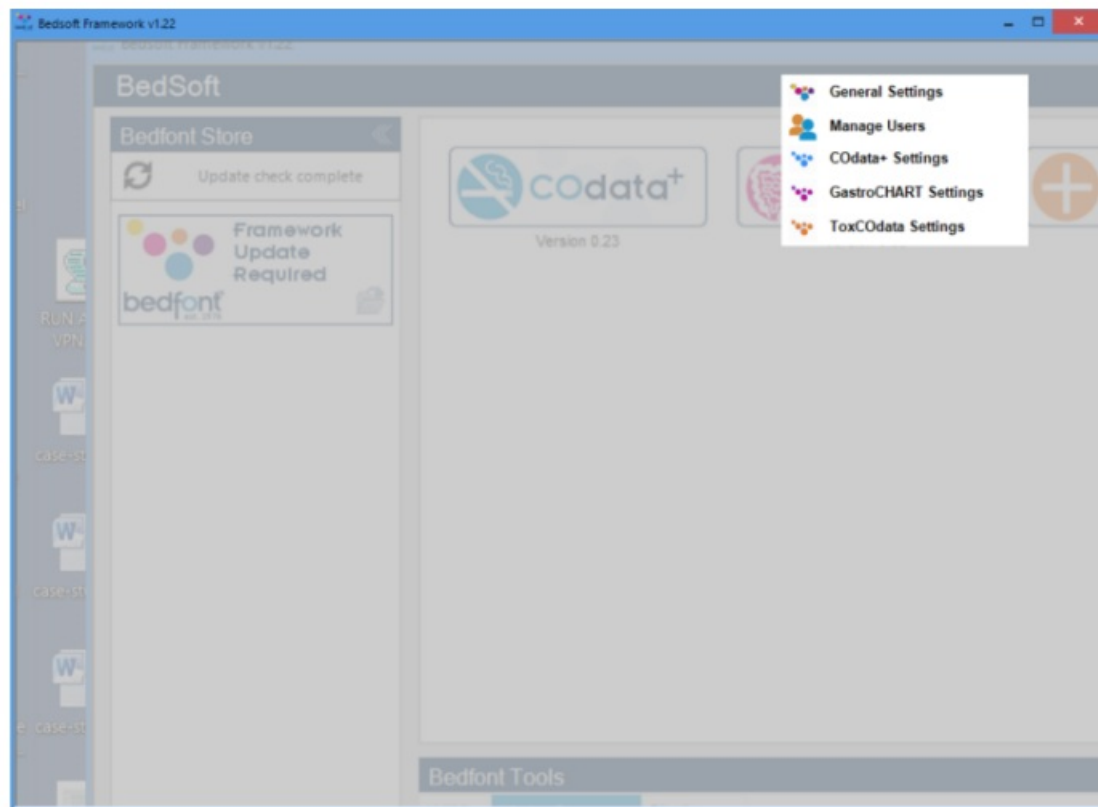
Clicking 'yes' will prompt the user to make the first account, which will be an administrator's account.



It is advisable to assign an admin person for the first account as this account will be used to manage any future users should they forget their login details.

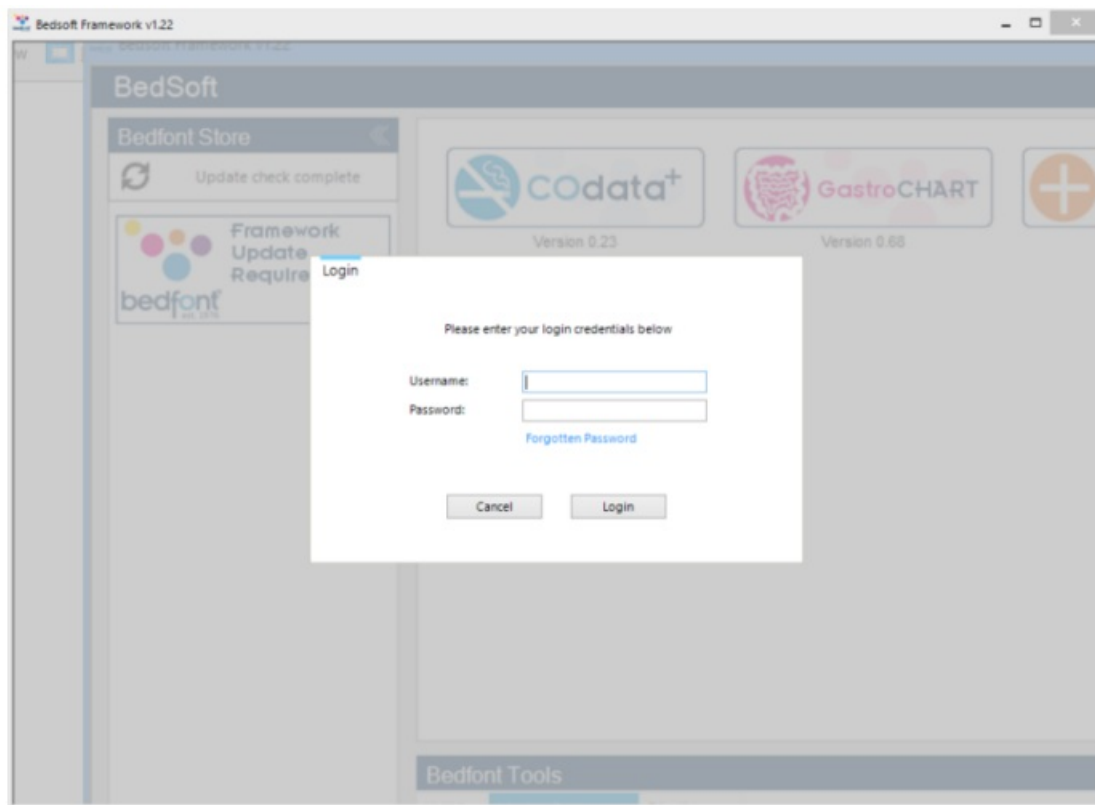


Upon the first login, the user will be prompted to provide 3 security questions and answers. This will be required in the event the user should forget their password.

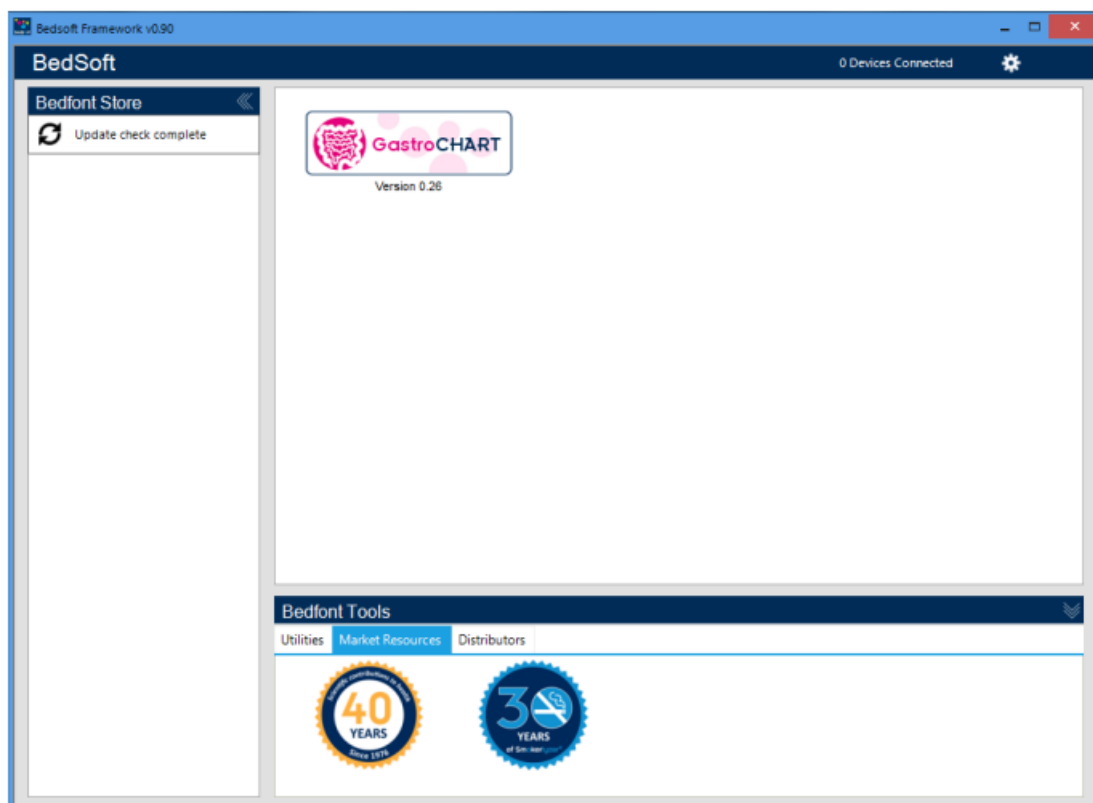


Please note:

- A user level account cannot access the admin panel to reset security questions or change account privileges – only an administrator account can access the admin control panel to reset security questions, passwords, username's and create/delete accounts.
- Within the admin panel there is an option to turn user accounts off completely, if this option is off then patient details will be accessible to anyone on the computer.
- In order to change accounts, Bedsat must be restarted.
- User accounts can be set up at a later date; if this is required then this can be accessed from the settings menu at any time. Switching user accounts on and off can also be done here.

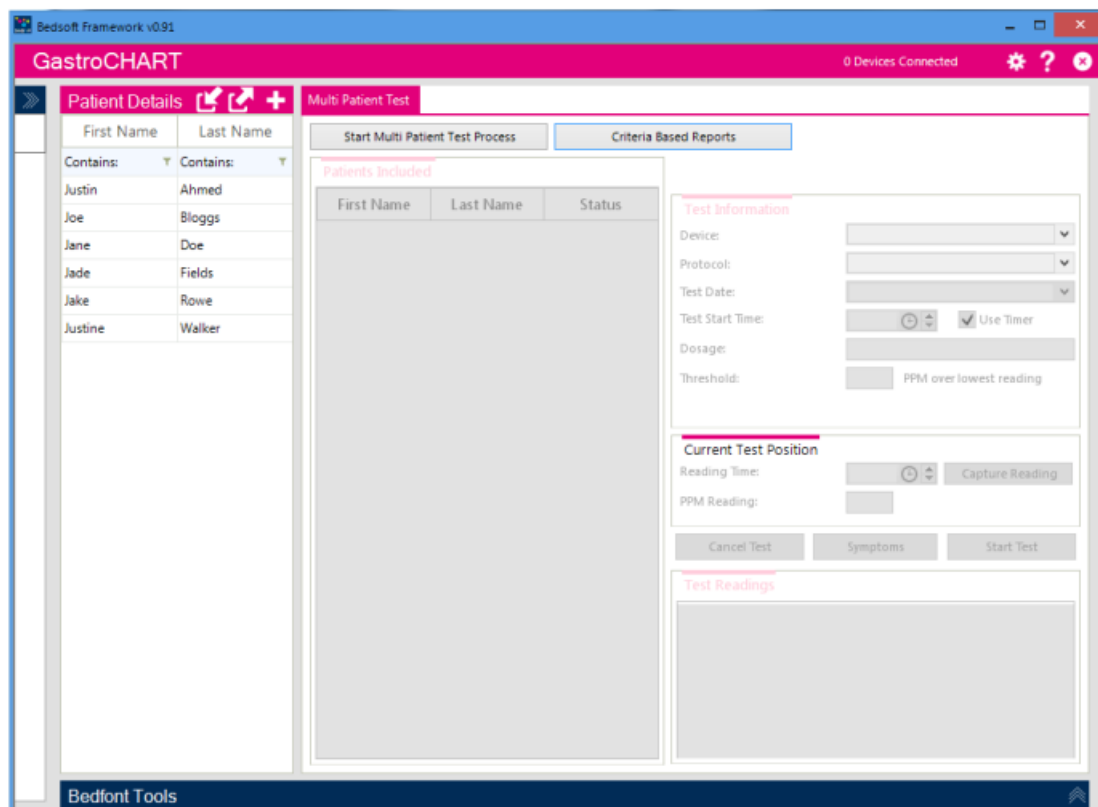


Once user accounts have been enabled, GastroCHART™ will not be able to accessed without login details.



Once Bedsat has been downloaded and user accounts enable/disabled, GastroCHART™ can be downloaded and installed from the left hand side of the screen, under the Bedfont® Store heading. Once GastroCHART™ installation is complete, the software tab will move into the centre of the screen, as shown.



Main Page



Click on the GastroCHART™ tab to open the main software window. This is the main layout of the programme.

Buttons

Description	Symbol
Add/edit patients	
Tools	
Start testing process	
Start testing process for multiple patients	
Generate report	
Close	
Save	
Delete	
Clear patient selection	
Device connected status	
Import/Export files	

Help	
Email	
Print	
Synchronise	

General Settings



General Settings



Codetta+ Settings



GastroCHART Settings

This section allows proxy server settings and email server settings to be edited. Click on the tools icon and select general settings.

Bedsoft Settings

Proxy Server Settings | Email Server Settings

☒ Direct access to the internet (no proxy server)

☐ Use a proxy server to access the internet

☐ Automatically detect proxy server

Proxy Server:

Port Number:

☐ Enable proxy authentication

Username:

Password:

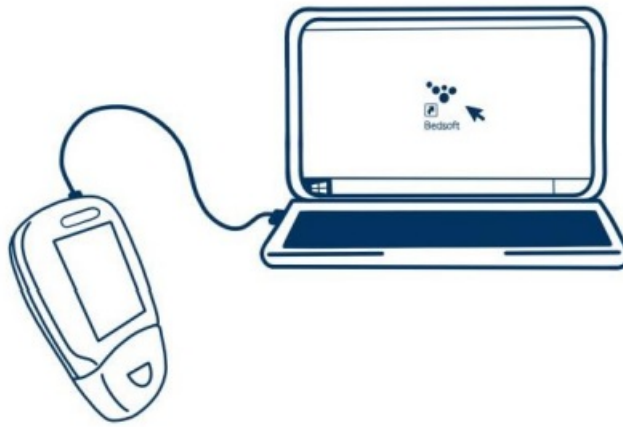
Close

From here the proxy server settings and email server settings can be edited.

Connecting GastroCHART™ to Gastrolzyer® device



Place one end of the connection lead into the USB socket on the top of the Gastro™ Gastrolyzer® product.



Connect the other end to the USB port on the PC.

Before starting the software, ensure that the Gastro TM Gastrolyzer® is connected to the PC and switched on. Double click the GastroCHARTTM icon on the PC to start the programme. Refer to the supplied documentation for how to operate GastroCHARTTM. GastroCHARTTM is available to download for FREE at <https://www.gastrolyzer.com>.

Add/edit patients

This function allows the patients used within the software to be managed. From here new patients can be added and existing patients can be edited or deleted.

Add new patient

To add a new patient, select the plus button next to 'Patient details', then simply complete the form in the lower half of the screen. At least one name field (surname or first name) must be completed and either an address or a contact number must be specified. The date of birth field must also be before today. All other fields are optional.

Edit/delete patient

To find a patient to edit, use the filter boxes at the top of the screen. These filter boxes are identified by the text

"contains", (Contains: ▼ Contains: ▼) .

Clicking the grey filter button at the end of the box will bring up a list of potential filters; to type in a search term, select the filter box. To edit a patient, click on the appropriate row in the list and the lower section will update to display the patient's details. If a patient is already being edited, a prompt will appear asking to save the current record.

Make any necessary changes and click the save button to save the changes. If the patient is to be deleted from the software, select the 'delete symbol'.

Patient details

The patient profiles on the left of the screen contain all previous data including test results of that given patient. When a patient is selected from the list on the left hand side of the screen, the right hand side of the screen will show two sections.

GastroCHART v0.91

0 Devices Connected

Test Results | **Graph Of Results** | **Start New Test**

Patient Details

First Name	Last Name
Justin	Ahmed
Joe	Bloggs
Jane	Doe
Jade	Fields
Jake	Rowe
Justine	Walker

Test Information

Device:

Protocol:

Test Date: 23/03/2016

Test Start Time: 14:20 ☐ Use Timer

Dosage:

Threshold: ☐ PPM over lowest reading

Current Test Position

Reading Time: 14:20

PPM Reading:

Test Readings

Patient Data (1) | **Patient Data (2)** | **Previous Tests**

First Name: Joe Patient ID: 1234

Initial: J Contact Number: 07896754327

Last Name: Bloggs Sex: Male

Address: 123 Field Close Ethnic Group: Mixed

Weston Pregnant: ☐

Peakshire Date Of Birth: 30/11/1979

Postcode: WE21 7FA

Bedfont Tools

The upper section has a series of three tabs that become populated with data once the patient has some test data associated with it:

- The first tab shows the readings from the latest tests performed by the patient. These results can be viewed by selecting the 'previous tests' tab at the bottom where the patient data is shown
- The second tab shows the PPM values plotted on a graph against the threshold value from the protocol
- The third tab allows a new test to be started.

GastroCHART v0.91

0 Devices Connected

Test Results | **Graph Of Results** | **Start New Test**

Patient Details

First Name	Last Name
Justin	Ahmed
Joe	Bloggs
Jane	Doe
Jade	Fields
Jake	Rowe
Justine	Walker

Test Information

Device:

Protocol:

Test Date: 23/03/2016

Test Start Time: 14:20 ☐ Use Timer

Dosage:

Threshold: ☐ PPM over lowest reading

Current Test Position

Reading Time: 14:20

PPM Reading:

Test Readings

Patient Data (1) | **Patient Data (2)** | **Previous Tests**

First Name: Joe Patient ID: 1234

Initial: J Contact Number: 07896754327

Last Name: Bloggs Sex: Male

Address: 123 Field Close Ethnic Group: Mixed

Weston Pregnant: ☐

Peakshire Date Of Birth: 30/11/1979

Postcode: WE21 7FA

Bedfont Tools

The lower section displays another three tabs for selection:

- The first tab shows a summary of the patient's details
- The second tab shows prescriptions given, notes, any symptoms seen before the test and medication

suggested for the patient

- The third tab displays any previous tests for selection.

Breath test tool

The breath testing function can be used for single or multiple patients with both the Gastro+™ and the GastroCH4ECK® Gastrolyzer®.

The screenshot shows the GastroCHART software interface. The 'Test Information' section is active, displaying fields for Device (GastroCHECK), Protocol (Fructose), Test Date (23/03/2016), Test Start Time (14:22), Dosage (25mg), H2 Threshold (20), CH4 Threshold (20), and Sample Type (Breath Sample). The 'Current Test Position' section shows a Reading Time of 14:20 and a 'Capture Reading' button. The 'Patient Data' section shows fields for First Name (Joe), Last Name (Bloggs), Patient ID (1234), Contact Number (07896754327), Sex (Male), Ethnic Group (Mixed), and Date of Birth (30/11/1979). The 'Start Test' button is highlighted.

Start single test

Before starting a single test, select the appropriate patient from the list. Filter the list using the criteria fields above; enter any applicable search criteria and the list will be updated automatically. To run a test, first select a device, then the protocol from the pull down list.

Enter a dosage given, a threshold value and specify the date and time of the first reading. If the user plans on running the test in real time, make sure the 'use timer' box is ticked.

The screenshot shows the GastroCHART software interface. The 'Test Information' section is active, displaying fields for Device (GastroCHECK), Protocol (Fructose), Test Date (23/03/2016), Test Start Time (14:22), Dosage (25mg), H2 Threshold (20), CH4 Threshold (20), and Sample Type (Breath Sample). The 'Current Test Position' section shows a Reading Time of 14:20 and a 'Capture Reading' button. The 'Patient Data' section shows fields for First Name (Joe), Last Name (Bloggs), Patient ID (1234), Contact Number (07896754327), Sex (Male), Ethnic Group (Mixed), and Date of Birth (30/11/1979). The 'Start Test' button is highlighted.

Click the 'start test' icon to begin. If the timer is used, a countdown to take the next reading will appear.

Continue taking readings when prompted until the test is finished. At the end of the test an interpretation can be entered.

The screenshot shows the GastroCHART software interface. The top bar indicates 'Bedsoft Framework v0.91' and '0 Devices Connected'. The main window is divided into several sections:

- Patient Details:** A table with columns 'First Name' and 'Last Name'. It lists patients: Justin Ahmed, Joe Bloggs, Jane Doe, Jade Fields, Jake Rowe, and Justine Walker.
- Multi Patient Test:** A section with a 'Finish Multi Tests' button and a 'Patients Included' table. The table has columns 'First Name', 'Last Name', and 'Status'. It lists the same patients with their test times: Justin Ahmed (11:29), Joe Bloggs (17:19), Jane Doe (13:00), Jade Fields (18:32), Jake Rowe (13:59), and Justine Walker (14:24).
- Test Information:** A section for 'Next Reading Timer' showing 'Next Reading: 11:29' for 'Justin Ahmed'. It includes fields for 'Device' (GastroCHECK), 'Protocol' (Lactose), 'Test Date' (23 March 2016), 'Test Start Time' (15:12), 'Dosage' (25mg), 'H2 Threshold' (20), 'CH4' (13), and 'Sample Type' (Breath Sample).
- Current Test Position:** A section showing 'Reading Time' (15:27) and 'H2 Reading' and 'CH4 Reading' fields.
- Test Readings:** A table with columns 'readdate', 'ppm', and 'ch4'. It shows a reading for '23/03/2016 15:12:28' with 'ppm' 6 and 'ch4' 2.

Buttons at the bottom include 'Cancel Test', 'Symptoms', and 'Save Reading'.

Start multiple tests

To run a multi-patient test, first make sure no patients are selected (any selection can be cleared by clicking the 'close' symbol above the patient details). The button will become available.

Clicking on the list of patients will add them to the multi-test list; there is no limit to how many patients can be selected.

Next, select a device from the pull down list and the device being used. Enter the dosage given, a threshold value and specify the date and time of the first reading.

Click 'start test' to begin, a countdown will appear to take the next test.

Continue adding patients and take readings for each when prompted until each test has finished.

At the end of each test, an interpretation can be entered.

Protocol Builder

The screenshot shows the GastroCHART software interface with the 'Protocol Builder' settings window open. The window has tabs for 'Software Settings', 'Health Care Professional Information', 'Default Print Settings', 'Protocols', and 'Import Data'. The 'Protocols' tab is active, showing the following settings:

- Protocol Name:** Fructose
- Substance:** Fructose Solution
- Thresholds:** H2: 20, CH4: 20, PPM over the lowest preceding value
- Time Points:** Add Time Point: 120 minutes, Earliest End Point: 120 minutes
- Interpretation:** Interpretation: (empty field), Negative Interpretation: (empty field)
- Protocol History:** A list of protocols: Fructose, Glucose, Lactose.

Buttons at the bottom of the window include 'Save', 'Delete', 'Clear', and 'Close'.

This function allows the user to create their own protocols for use within the software.

To add/edit/delete a protocol go to the GastroCHART™ settings by selecting the 'tools' icon and select the 'protocols' tab along the top of the box.

Add new protocol

To add a new protocol, complete the name, substance and threshold boxes, followed by the time points at which readings are to be taken. When finished, select the earliest end point for the test and click 'save' to store the protocol.

Edit protocol

To edit an existing protocol, click on the appropriate row in the list and modify the values above.

Click the 'save' icon to keep the changes.

Delete protocol

To delete an existing protocol, click on the appropriate row in the list and click on the 'delete' button. A confirmation message will pop up and if confirmed, the profile will be deleted.

Print results

The screenshot shows the 'GastroCHART' software interface. At the top, there's a pink header bar with the 'GastroCHART' logo and '0 Devices Connected'. Below this is a 'View Report' tab. The main area contains a patient report for 'Joe Bloggs'. The report includes a 'Test Type' dropdown set to 'Frustrax', 'Patient Information' (Name, ID, Sex, Date of Birth, Address, Postcode, TFA), 'Health Care Professional' (empty), 'Challenge Dose' (25mg), 'Substance' (empty), and 'Symptoms' (empty). A table shows 'Date', 'H2', and 'CH4' readings for a single entry on 01/03/2016. The interface also features a 'Close' button at the bottom and a 'Bedfont Tools' bar at the very bottom.

Date	H2	CH4
01/03/2016 16:05	4	0

To find a patient to print results, use the filter boxes at the top of the page. Enter a patient ID, or part of a surname and the list will update automatically. To produce a PDF report of readings for this patient, select the 'print results' button.

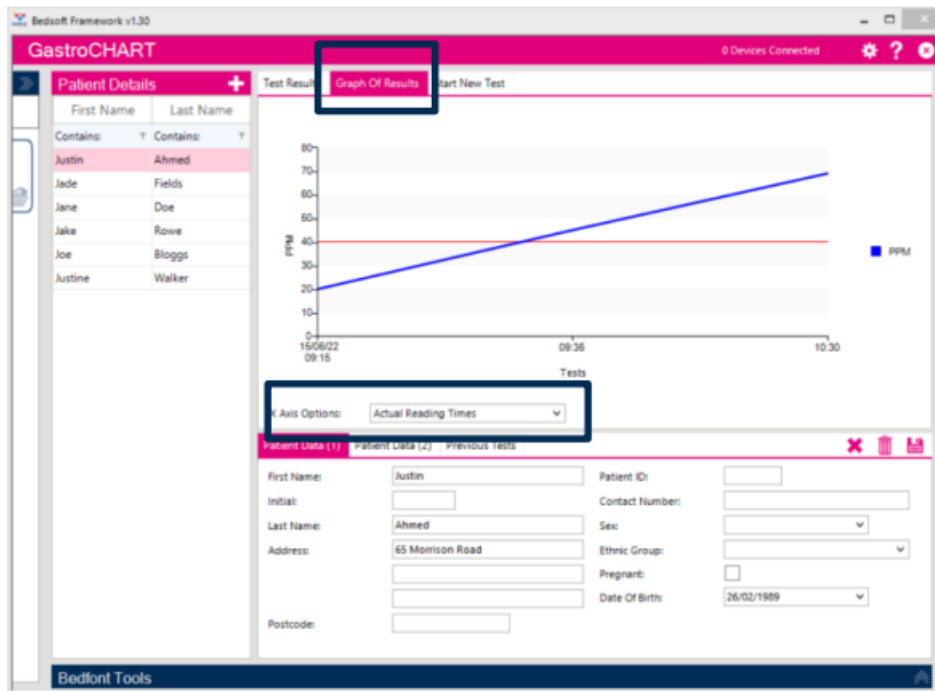
Different criteria can be selected to be shown on the print out.

The final tab allows an interpretation to be entered for the patient; this is printed on the PDF report.

These tabs can be used in conjunction with the four tabs along the top of the screen

Generating reports

The user has various options to personalize the patient's graph of results. Select 'Graph of Results' from the tab options across the top of the software. The X axis can be changed using the drop down menu between 'Actual Reading Times' which details the time that the patients' tests were conducted, and 'Protocol Time Points' which shows the time points according to the protocol that is being used.



The X axis option that is selected will appear on the generated report. To generate the report, select the 'Test Results' tab from the options across the top of the software, then select 'Print Results'.

The screenshot shows the 'GastroCHART' software interface with the 'Test Results' tab selected. The 'Print Results' button is highlighted. The 'Test Results' table shows the following data:

Reading Time	PPM
15/06/2022 09:15	20
15/06/2022 09:35	45
15/06/2022 10:30	69

The 'Additional Test Information' section includes fields for Threshold (40 PPM), Dosage, Referred By, Physician Requested, Performed By, Symptoms, Medication, Interpretation, and Positive Result. The 'Patient Details' tab is also visible on the left, showing a list of patients with Justin Ahmed selected.

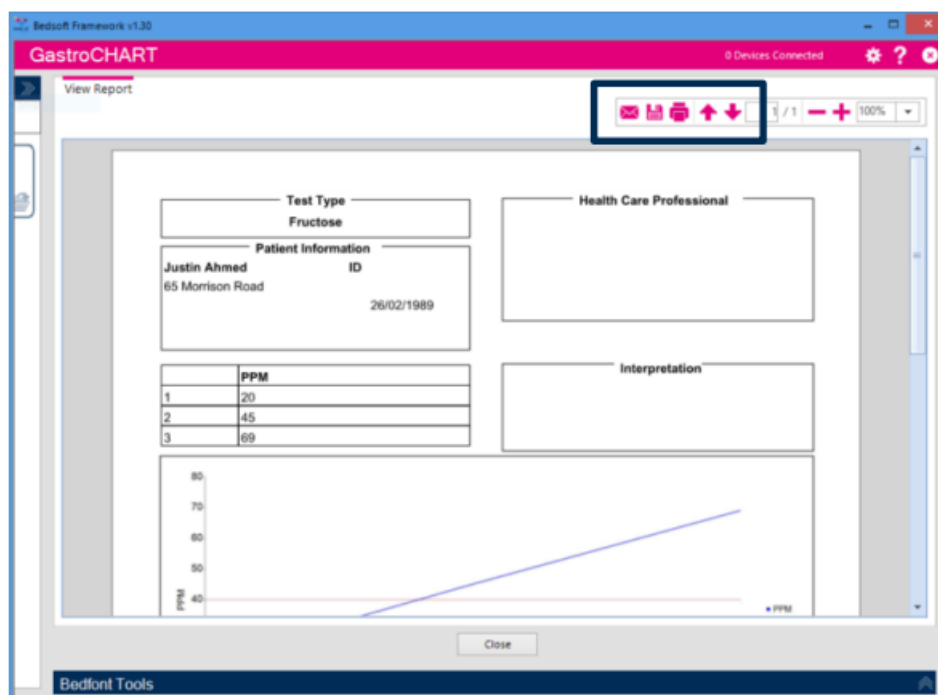
A pop up window will appear, allowing for the results contents to be customized. Select either 'Print Results' to print or 'Cancel' to return to the main screen.

Print Options

Use the tick boxes below to select the items to print

- ☒ Logo
- ☒ Health Care Professional Information
- ☒ Patient Information
- ☐ Challenge Dose
- ☒ Interpretation
- ☒ Table Of Results
- ☐ Date / Time
- ☒ Graph Of Results
- ☐ Symptoms
- ☐ Referred By

Header Text



To save the report in a PDF format, select the 'save' icon at the top of the screen. A pop up window will appear, allowing for the results contents to be customized.

COdata+

Patient Details: First Name: Lola, Last Name: Krypton

Table Of Results: 15

Graph Of Results

%FCDHb Graph

Interpretation

Print Options

Use the tick boxes below to select the items to print

- ☒ Logo
- ☒ Health Care Professional Information
- ☒ Patient Information
- ☒ Interpretation
- ☒ Table Of Results
- ☒ Graph(s) Of Results
- ☒ Prescription Data

Header Text

Profile: Adult

Patient Details: First Name: Lola, Last Name: Krypton, Patient ID: , Contact Number:

To print or close the window, select 'Print Results'.

Bedsoft Framework v1.30

Codata+ 0 Devices Connected

View Report

Test Type: CO (Carbon Monoxide)

Patient Information: **Lola Krypton** ID: 78187
45 Mansville Avenue 07/07/1999

Health Care Professional Interpretation: Smoker
Smokers in this region are addicted to nicotine. Smoking can affect your ability to be successful at sports or even everyday work and leisure activities.

Date	PPM	%COHb	Notes
15/06/2022 09:35	12	2.55	

Close

Bedfont Tools



Official Bedfont Distributor



breath analysis is the new blood test

Official Bedfont Distributor

USA Representative for Sales, Service & Support: covet
212 Cottage Grove Ave Suite C
Santa Barbara, CA 93101

Tel: 800.707.5751 Fax: 800.721.2377

Email: service@covita.net

Website: www.covita.net

Our family, innovating health, for yours.

Visit www.bedfont.com/resources to view this document in other languages.



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Documents / Resources

 The image shows the cover of the 'Gastrolyzer GastroCHART™ Software User Manual'. It features the 'Gastrolyzer' logo in green and red, a circular graphic with a red and white medical device, and the 'ce/ifa' certification logo at the bottom. The text 'Our family, innovating health, for yours.' and 'bedfont' are also visible.	<p>bedfont GastroCHART Software [pdf] User Manual GastroCHART Software, Software</p>
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References

- [Bedfont Scientific Ltd - Supplying breath and gas analysis equipment.](#)
- [Resources - Bedfont Scientific Ltd. - Our family, innovating health, for yours - Based in Maidstone](#)
- [Leaders in breath analysis since 1976 - coVita](#)
- [Gastrolyzer by Bedfont - Helps to detect gastrointestinal disorders](#)
- [Gastrolyzer by Bedfont - Helps to detect gastrointestinal disorders](#)
- [User Manual](#)