

GastroCHART[™] Software User Manual



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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 analyse 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 Bedsoft 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 Bedsoft product account with a secure password has been set up to protect patient data.

ledsoft Framework v1.22		
BedSoft	0 Devices Connected	*?
Bedfont Store Complete		
Framework		
Update Required Dedfont 🔗		
	Enable Logins?	
	Bedsoft now supports user accounts and login control, would you like to enable this feature and setup a user now?	
	Yes No	
	Yes No	
	Yes No Bedfont Tools	
	Bedfont Tools	V
	Bedfont Tools	V

Bedsoft 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 Bedsoft has been installed and updated, a prompt will appear asking if user accounts are to be set up.



BedSof					
Bedfont S	tore				
Ø Mar	age Users			ART	
	lequire Users To Login				
	isting Users	Create Administr	ator Account		
		First Name:			
bed		Last Name:			
		Username: Password*:			
		User Level	Administrator	~	
		*By entering a passi	ord here, the user will be prompted	á to	
		change their passwo	ird when they next login.		
			S	ave would yo	
			Clo		

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

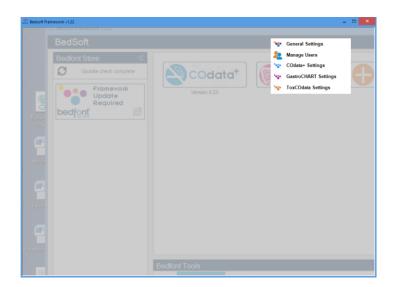
BedSoft Bedfont Store	
Manage Users	ART
Require Users To Login Existing Users	Create Administrator Account
Conting Users	Create Administrator Account First Name:
bed	Last Name:
	Username:
	Password*:
	User Level: Administrator 🗸
	*By entering a password here, the user will be prompted to change their password when they next login.
	Save would you b
	Close

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.



Bedsoft Fra	amework v1.22						
	Bedfont Store	«					
	D Update check complet				1 Contract		
	Dipute check complet			Odata ⁺		GastroCHART	
	Framework				No Contraction		
	Update Require Logi						
	it o don o						
	bedfong		Diance configure your c	ecurity questions below			
			Please configure your s	ecurity questions below			
		stion 1:			*		
		stion 2:			*		
		wer:					
		stion 3:			*		
	Ans	wer:					
			Cancel	Save Questions			
			Bedfont Tools				

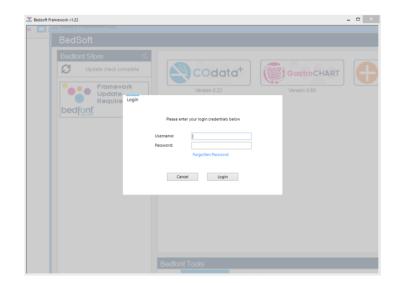
Upon the first login, the user will be prompted to provide 3 security questions and answers. This will be required in the event the user should forget their password.



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, Bedsoft 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 Bedsoft 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

Patient Deta	ls 🕑 🛃 🕇	Multi Patient Test					
First Name	Last Name	Start Multi Patie	ent Test Process	Criteria	Based Reports		
Contains:	Contains: T						
Justin	Ahmed	First Name	Last Name	Status			
Joe	Bloggs	First Name	Last Hame	Status	Test Information		
Jane	Doe				Device:		
Jade	Fields				Protocol:		
Jake	Rowe				Test Date: Test Start Time:		
Justine	Walker					(±) ‡	V Use Timer
					Dosage: Threshold:		er lowest reading
					Current Test Desilies		
					Current Test Position Reading Time:	(-) ÷	
					PPM Reading:		
					Cancel Test	Symptoms	Start Test
					Test Readings		

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

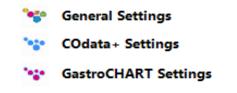
Buttons

Description	Symbol
Add/edit patients	•
Tools	*
Start testing process	Start Test
Start testing process for multiple patients	Start Multi Patient Test Process
Generate report	Criteria Based Reports
Close	
Save	
Delete	İ
Clear patient selection	×
Device connected status	Gastro+ Connected 💈
Import/Export files	



Help	?
Email	X
Print	•
Synchronise	4

General 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

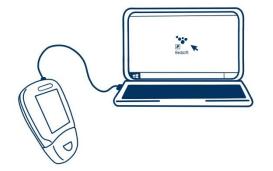
From here the proxy server settings and email server settings can be edited.



Connecting GastroCHART™ to Gastrolyzer® 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^{+™} Gastrolyzer[®] is connected to the PC and switched on. Double click the GastroCHART[™] icon on the PC to start the programme. Refer to the supplied documentation for how to operate GastroCHART[™]. GastroCHART[™] 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: T Contains: T).

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 shows two sections.

Patient Deta First Name		Test Results Graph Of	f Results Start New Test			
	Last Name	Test Information		Test Reading		
Contains:	T Contains:	Device:		▼ Test Reading		
Justin	Ahmed	Protocol:		~		
Joe	Bloggs	Test Date:	23/03/2016	~		
Jane	Doe	Test Start Time:	14:20 (-) ‡ ✔ Use Timer			
Jade	Fields	Dosage:				
Jake	Rowe	Threshold:	PPM over lowest reading	,		
Justine	Walker					
			nt Data (2) Previous Tests			× mī
		Patient Data (1) Patie				
		Patient Data (1) Patie	Joe	Patient ID:	1234	
				Patient ID: Contact Number:	1234 07896754327	
		First Name:				~
		First Name: Initial:	Joe	Contact Number:	07896754327	¥
		First Name: Initial: Last Name:	Joe J Bloggs	Contact Number:	07896754327 Male	~
		First Name: Initial: Last Name:	Joe J Bloggs 123 Field Close	Contact Number: Sex: Ethnic Group:	07896754327 Male	× ×
		Patient Data (1) Patie	(-)			

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.



Patient Detail	ls 🕂	Test Results Graph Of	Results Start New Test				
First Name	Last Name	Test Information		Test Reading			
Contains: T	Contains: T	Device:		 Vest Reading 			
Justin	Ahmed	Protocol:		~			
Joe	Bloggs	Test Date:	23/03/2016	~			
Jane	Doe	Test Start Time:	14:20 (-) ‡ ✔ Use Time	r			
Jade	Fields	Dosage:					
Jake	Rowe	Threshold:	PPM over lowest readin	a			
Justine	Walker			-			
			Start Tes				_
		Patient Data (1) Patier	nt Data (2) Previous Tests			× 💼	
		First Name:	Joe	Patient ID:	1234		
		Initial:	1	Contact Number:	07896754327		
		Last Name:	Bloggs	Sex	Male	۷	
		Address:	123 Field Close	Ethnic Group:	Mixed		۷
			Weston	Pregnant:			
			Peakshire	Date Of Birth:	30/11/1979	~	
		Postcode:	WE21 7FA				

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[®].

Patient De	tails	Test Results Graph Of	Results Start New Test				
First Nam	e Last Name	Test Information		Test Reading	15	-	_
Contains:	▼ Contains:	7 Device:	GastroCHECK	~			
Justin	Ahmed	Protocol:	Fructose	~			
Joe	Bloggs	Test Date:	23/03/2016	~			
Jane	Doe	Test Start Time:	14:22 🕒 🌲 🗸 Use Time	r			
Jade	Fields	Dosage:	25mg				
Jake	Rowe	H2 Threshold:	20 CH4:	20			
Justine	Walker	Sample Type:	Breath Sample	~			
		Patient Data (1) Patie	Start Tes	t		×	俞
		First Name:	Joe	Patient ID:	1234	-	ш
		Initial:	Joe	Contact Number:	07896754327		
		Last Name:	Bloggs	Sex:	07896754527 Male	×	
		Address:	123 Field Close	Ethnic Group:	Mixed	-	
		Address:	Weston	Pregnant:	Mixed		
			Peakshire	Date Of Birth:	30/11/1979	¥	
		Postcode:	WE21 7FA	oute or birth			

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.



Patient Deta	ils 🕂	Test Results Graph Of	Results Start New Test			
First Name	Last Name	Test Information		Test Reading	IS	
Contains:	т Contains: т		GastroCHECK	~		
Justin	Ahmed	Protocol:	Fructose	~		
Joe	Bloggs	Test Date:	23/03/2016	~		
Jane	Doe	Test Start Time:	14:22 🕒 🗘 🗸 Use Timer			
Jade	Fields	Dosage:	25mg			
Jake	Rowe	H2 Threshold:	20 CH4: 2	2		
Justine	Walker	Sample Type:	Breath Sample	v		
		Patient Data (1) Patier	nt Data (2) Previo			× 💼
				1	1234	
		First Name:	Joe	Patient ID:	1234	
		First Name: Initial:	Joe	Patient ID: Contact Number:	07896754327	
						~
		Initial:	J	Contact Number:	07896754327	~
		Initial: Last Name:	J Bloggs	Contact Number:	07896754327 Male	
		Initial: Last Name:	J Bloggs 123 Field Close	Contact Number: Sex: Ethnic Group:	07896754327 Male	

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.

Patient Details		Multi Patient Test						
First Name	Last Name	Finish N	Finish Multi Tests			11:29		
Contains:	τ Contains: τ	Patients Include	d			Justin Ahmed		
Justin	Ahmed	First Name	Last Name	Status				
Joe	Bloggs		Ahmed	11:29	Test Information		ext Reading	
Jane	Doe	Justin			Device:	GastroCHECK		
Jade	Fields	Joe	Bloggs	17:19	Protocol:	Lactose		•
Jake	Rowe	Jane	Doe	13:00	Test Date:	23 March 2016		
Justine	Walker	Jade	Fields	18:32	Test Start Time:	15:12 🕒 🌲	🗸 Use Time	21
		Jake	Rowe	13:59	Dosage:	25mg		
		Justine	Walker	14:24	H2 Threshold:	20	CH4:	13
					Sample Type:	Breath Sample		
					Current Test Position			
					Reading Time:	15:27 () ‡		
					H2 Reading:	CH4 Re	ading:	
					Cancel Test	Symptoms	Save Read	
					Test Readings			
					readdate	ppm		ch4
					23/03/2016 15:12:28		6	

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

	st Name		formation									
Contra									Reading			
Ahm	GastroCHART									_		
Bloge	Software Settin	ngs He	alth Care Profes	sional Infor	mation [Default Pri	int Settings	Protocol	s Impo	rt Data		
Doe	Protocol Name	e: Fru	uctose		Substand	e: [Fructose So	lution				
Field	Thresholds:	H2: 20	CH4:	20	PPM ove	r the lowe	st precedin	g value				
Rowe	Time Points	s						Add	0			
Walk		Add Time	Point:		m	inutes		Aug	15			
		Earliest Er	nd Point:	1	20 🗸				30 45	Ţ		
	Interpretation											
	interpretation									Save		
	Negative Inter	pretation							i –	Delete		
										Clear		
	Protocol Hi	istory (cl	ick to view pro	otocol)								
	Fructose									÷ .	×	ł
	Glucose											
	Lactose											
									c	lose		
							1					

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

Beds	oft Framework v03	91 – 🗆 💌
Ga	stroCHAF	RT 0 Devices Connected 🛛 🌞 📍 📀
>	View Report	
		Tat Type Practice Plant Information Practice Pathod Information Normation Valia Ped Conce Male Valia Ped Conce Male Valia Ped Conce Male Valia Ped Conce Of Statistical Constance Of Statistical Constance Of Statistical Discourse Of Statistical Discourse Statistical Discourse Statistical
		Data H2 CHA 1 0.10320116 16:05 4 0 Factors Factors Factors Demons Demons
	Bedfont Too	Core

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 personalise 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.



Patient Det	ails 🕂	Test Result G	aph Of Results	tart New Test				
First Name								
Contains:	T Contains: T							
Justin	Ahmed	80						
Jade	Fields	70-						•
Jane	Doe	50-						
Jake	Rowe							
Joe	Bloggs	₩ 40- 30-	_					PI
Justine	Walker	20						
		(Axis Options: Patient Data (1)	Actual Readin		⊤ests ▼			× ti
		First Name:	Justin			Patient ID:		
		Initial:				Contact Number:		
		Last Name:	Ahmed			Sex		~
		Address:	65 Morris	son Road		Ethnic Group:		
						Pregnant:		
						Date Of Birth:	26/02/1989	~
		Postcode:						

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

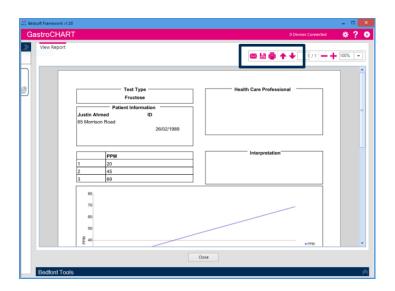
	tails	Test Results Graph Of R	esults Start New Test		
First Nam	e Last Name	Table of Results (clic	k to delete)	Additional Test Infor	mation
Contains:	T Contains: T	Reading Time	PPM	Threshold:	40 PPM
Justin	Ahmed	15/06/2022 09:15	20	Dosage:	
Jade	Fields	15/06/2022 09:15	45	Referred By:	
Jane	Doe	15/06/2022 10:30	43	Physician Requested:	
Jake	Rowe	13/00/2022 10:30	09	Performed By:	
Joe	Bloggs				
Justine	Walker			Symptoms:	View/Edit Symptoms
		Print Results Patient Data (1) Patient	Add Manual Reading Data (2) Previous Tests	Positive Result:	× 🛍
		First Name:	Justin	Patient ID:	
		Initial:		Contact Number:	
		Last Name:	Ahmed	Sex	×
		Address:	65 Morrison Road	Ethnic Group:	
				Pregnant:	
					26/02/1989
				Date Of Birth:	20/02/1909



Print Options				
Use the tick boxes below to select the items to print	\checkmark	Logo		
Health Care Professional Information				
✓ Patient Information				
Challenge Dose				
✓ Interpretation				
✓ Table Of Results		Clear Image		Select Image
Date / Time				
Graph Of Results				
Symptoms				
Referred By			Cancel	Print Results

A pop up window will appear, allowing for the results contents to be customised.

Select either 'Print Results' to print or 'Cancel' to return to the main screen.



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 customised.

Bedsoft Fr	ramework	v1.30							- 🗆 🛛
Log	MEX DEO	son framework	. V1.50						
IE.	<u>>>></u>				Table Of Results				
				Krypton	10				
,				t Options the tick boxes below to sel	ect the items to print	Logo			
" Logon- LV8"			> > >	Health Care Professional In Patient Information Interpretation Table Of Results Graph(s) Of Results Prescription Data	formation	Clear Image	Select Image		
							Print Results	Tests	
					Profile: Adult	V			
						Prescription Data			
					First Name:	Lola			
					Last Name:	Krypton			Contact Number:

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

🚉 Bedse	oft Framework v1.30					_ 🗆 🗙
CO	data+					cted 🛛 🔅 ? 😣
	View Report	CO (Carbon Mond Patient Information Lola Krypton 45 Mansville AVenue			h Care Professional tertation retation rs in this region are addicted to nicotine. g can affect your ability to be successful at or even everyday work and leisure activities.	
		Date	PPM	%сонь	Notes	í .
		15/06/2022 09:35	12	2.55	10103	
		16- 14- 12- 10- 8- 8-				
				Close		
	Bedfont Tools					





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