



# Flow Control Overview

The **Flow Control** application is a piece of software supplied by Telehealth Solutions, and which works in conjunction with their **Cardio Pod** system. The Cardio Pod – most often situated in a pharmacy setting – is a system which, when aided by a health care assistant, allows a patient to receive a full Health Check, and results in a cardiovascular risk score being calculated. There are many elements which make up the Health Check, ranging from vital signs measurements through to general health questions (such as smoking status) – the individual patient risk score is calculated based upon the results gathered from this session.

*But what happens to the data once it is captured?*

One of the pieces of information which is gathered during the Health Check session is the name of the GP surgery to which the patient is registered. Where this information is known and supplied by the patient, it is possible to send the results to the corresponding surgery and, at the discretion of the clinician, to post this data into the patient management system (PMS); this is all managed using Flow Control.

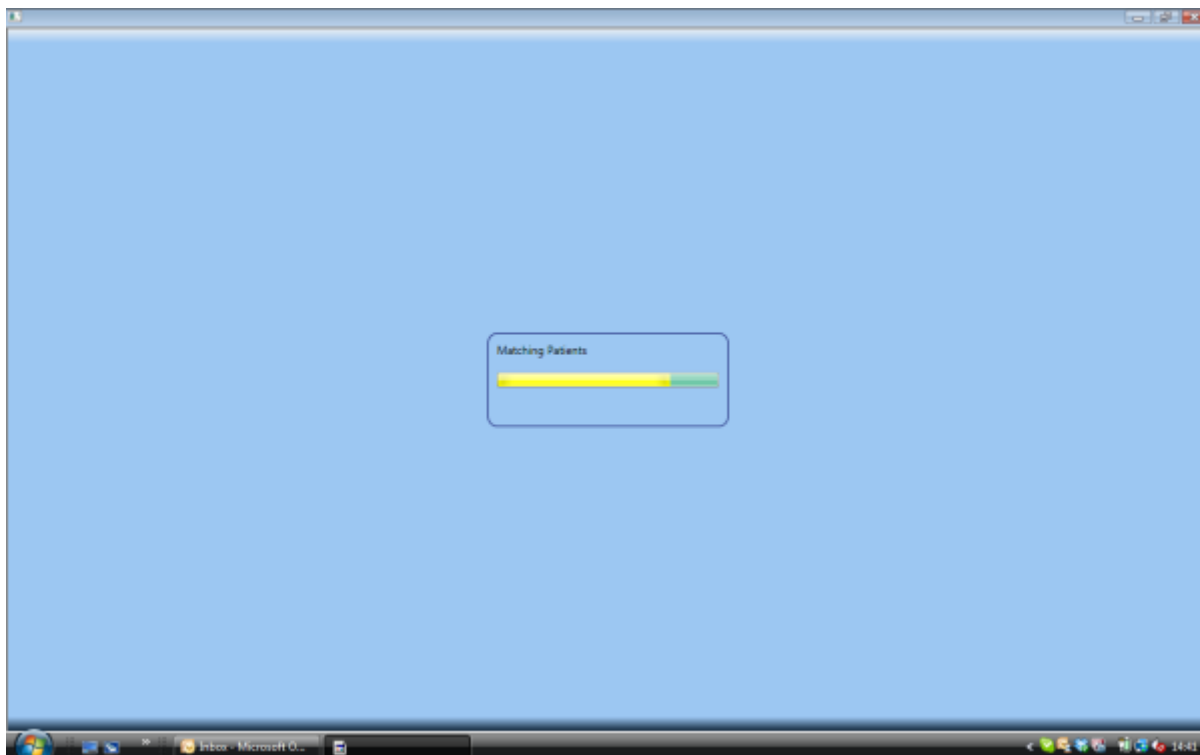
The Flow Control application (which must be installed on a designated practice PC) allows a clinician to view all results which have been identified as belonging to the surgery, and these are viewed on a patient by patient basis. All results are Read-coded, meaning they *can* be posted directly into the PMS. Of course, it may be the case you do not wish to post this data into the PMS. Should this be the case, there is the option to bypass this step. Flow Control has a “Print” option, to enable the printing of results captured during the Health Check instead of posting them – it is entirely at the clinician’s discretion.

The system uses several key pieces of personal information to identify the patient in the PMS, scanning the entire database as it does so (it searches on a combination of first name, last name, date of birth and gender). If the patient cannot be identified in the system, Flow Control will notify you of this fact.

In summary, the Flow Control application allows a clinician to view the Health Check results of those patients belonging to a surgery, but which have been captured outside of the practice. It allows a clinician to review these results before deciding whether or not they are posted into the patient management system. Results become available in Flow Control as soon as they are submitted by the Cardio Pod.

Please find below some sample screen shots of the Flow Control application.

When the application is opened it will first establish a connection to the PMS, and following on from that will scan the said PMS to identify patient matches based upon the information which was supplied in the patient consultation during the Health Check. Whilst this connection is established, you will see the following:



Once the scan is complete, you will be presented with a screen which is split into three main sections:

- The section on the left hand side of the screen shows a list of all pending patient results waiting to be processed
- The middle section of the screen shows the patient profile and accompanying results of the patient which is currently selected from the list of pending patient results
- The right hand side of the screen has the potential to contain up to 2 buttons: one which posts the data into the PMS should you choose to do so, and one which allows you to choose NOT to post the data ("Do not post"). If the system was unable to match up a set of results against a record in the PMS then the only button you will see is "Do not post"

The main application looks as follows:

The screenshot displays a mobile application interface. On the left, a vertical list shows multiple patient entries, each with a date and location (e.g., 'Mobile Unit 1, NHS Hammersmith and Fulham, 15-FEB-1948'). The main area on the right shows a detailed patient profile for 'Mr Arvindar Singh' (DOB: 15-FEB-1948). The profile is divided into two sections: personal data at the top (including name, address, and phone number) and test results at the bottom. A green button with a checkmark and the text 'Post' is located in the top right corner of the profile view. A red button with a cross and the text 'Do Not Post' is located in the bottom right corner. Two callout boxes with arrows point to these buttons, with text explaining their functions. A third callout box points to the list of results on the left, explaining its purpose.

This left hand section of the screen shows all patient results waiting to be processed. This list decreases as the pending results are gradually processed

This is the main patient profile. It is split into 2 sections: personal data at the top of the screen, and all results captured shown at the bottom. Please note that all Read codes are displayed next to the results

If there is NO match found between the patient data supplied and what is in the PMS, then the green button in the top right hand corner of the screen will NOT be visible and you will only have the option to NOT post the data.

It is also possible for there to be a partial match; a partial match occurs where several pieces of key information have been identified as being correct in the system, but one has not (for example surname, DOB and gender are identical, but the first name is not). This would result in an amber button appearing in place of the green button and the data discrepancy will be highlighted. The clinician is therefore notified of the data difference and has the option to choose whether or not to post the data. An example of a partial match can be seen below:

The screenshot displays a 'Notification of Test Results' window for a patient named George Green, born 06-JUL-1954. The window includes a patient photo, name, and date of birth. Below this, it lists the date and time of the test (03 Aug 2010, 11:25 AM), the location (Mobile Unit 1, NHS Hammersmith and Fulham), and the test name (Mr Test? Test?). A list of test results follows, including measurements like weight (55 kg), cholesterol levels, and blood pressure. In the top right corner, a yellow warning icon with a question mark is circled, indicating a partial match. At the bottom right, a red button labeled 'Do Not Post' is highlighted.

An example of a partial match

Below you can see an example of where no match has been found (i.e. no button allowing you to post to the PMS), and also, the printing functionality is switched “On”:

The screenshot displays a medical software interface. On the left, there is a list of mobile units. The main area shows a patient profile for 'fish' (DOB: 01-JAN-1955) and a notification of test results. The test results table includes the following data:

Code	Measurement
22A	CVE - weight 128 kg
3881	Vascular disease risk assessment Pharmacy
44P	Serum Cholesterol 3.1 mmol/l
44PF	Total Cholesterol:HDL Ratio 1.8
23F	CVE - height 2 m
44PS	Serum HDL Cholesterol level 1.7 mmol/l
3883	Framingham coronary heart disease 10 year risk score: 9.76033811961292
13T	Tobacco consumption
2499	Blood Pressure (Systolic) 333 mmHg
249A	Blood Pressure (Diastolic) 23 mmHg
23C	Body Mass Index 13.7
9k17	Alcohol Screen - AUDITC completed 7

At the bottom of the interface, there are two buttons: 'Printing ON' and 'Do Not Post'. The 'Do Not Post' button is highlighted with a red box and a red 'X' icon, indicating it is the active button.

Printing is set to “On” and only the “Do Not Post” button is visible because no match was established

Should you wish to print any of the results (and this may be particularly useful if you wish to follow-up a patient for whom a set of results has been submitted, but who cannot be found in the PMS), you are able to do so by clicking on the “Printing” button (which can be located underneath the main patient profile. In the above diagram you can see the status is set to “Off”). Simply click this button to turn the print functionality on or off. Printing occurs when you click on either of the buttons to post / not post the data into the PMS.

When you have finally cleared all pending results, you will see the following screen, which denotes a successfully completed session:

