

COVID-19 Alerting

Document Control

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Contents

1	Overview.....	3
2	Alerting using a pathology data Feed.....	4
3	Alerting without pathology data feed.....	5
4	Setting alerts.....	6
4.1	Visual display of text.....	6
	Document history.....	7

1 OVERVIEW

At Sherwood Forest Hospitals NHS Foundation Trust InfoFlex has been configured to alert clinicians that a patient has been tested for COVID-19 and provide them with the results of that test. This allows the clinician to take the COVID-19 status into account when determining the patient's treatment.

This alerting has been applied to monitor COVID-19 in cancer patients but it can also be applied to all patients across all clinical specialties.

If a pathology results feed into InfoFlex is implemented then the results are immediately available to all authorised users.

If no pathology feed is present, the test results can be entered and made available to clinicians as required.

Patients can be reported on according to the test results as required.

2 ALERTING USING A PATHOLOGY DATA FEED

As pathology data is received by InfoFlex, the need for the user to log in to the pathology system to view the test results is removed. InfoFlex provides summary views to present the test results as required as part of the patient’s clinical record. These views are locally configurable.

Pathology data comes across to InfoFlex in different formats and therefore each individual trust will need to determine which data parameter is needed to identify COVID-19 tests. In this example, the trust used the code ‘NCOV’.

Query Filter Properties - [COVID-19]		
Data Item	Operator	Value
ObservationIdentifier	LIKE	*NCOV*

A summary of the test result has been linked to the cancer pathway information recorded in InfoFlex to support the team tracking patients along the cancer pathway. The alert button turns red when a positive result is present. Alerts can also be sent as emails or texts if required.

Pathway Summary	First Seen Details	Tracking	Diagnosis Details	Initial Care Plan Summary	Staging Details	First Treatment Summary	WTA and Delay Reasons	Risk Factors	Alert
Referral Type									
2 Week Wait Referral	2 Week Wait Referral (Suspected childrens, acute leukaemia or testicular)	Consultant Upgrade	Referral from NHS Screening Programme	Referral for breast symptoms (not susp. cancer)	COVID-19 Result (1)				
✓	✗	✗	✗	✗	Observed date	Result			
					16/03/2020	Detected (Low Level)			

Below is the summary view added to the InfoFlex cancer pathway screen, the alert button (above) navigates to the patient tracking screen (below) where users can record the steps taken to manage the patient.

Back

Tracking Comments

Query Tracking Comments Refresh New Edit Copy Print Width

Days	Date	Comment	Author

3 ALERTING WITHOUT PATHOLOGY DATA FEED

If a Trust does not have a feed from the pathology system they will need to enter the COVID-19 data into InfoFlex. The ease with which new data items can be added allows trusts to tailor InfoFlex to their specific requirements.

The following configuration changes have been made at Gloucester Hospitals NHS Foundation Trust and the required data is already being recorded. This data can be recorded at any stage of the patient's care pathway.

Data items:

Estimated Date of onset of symptoms (Date)

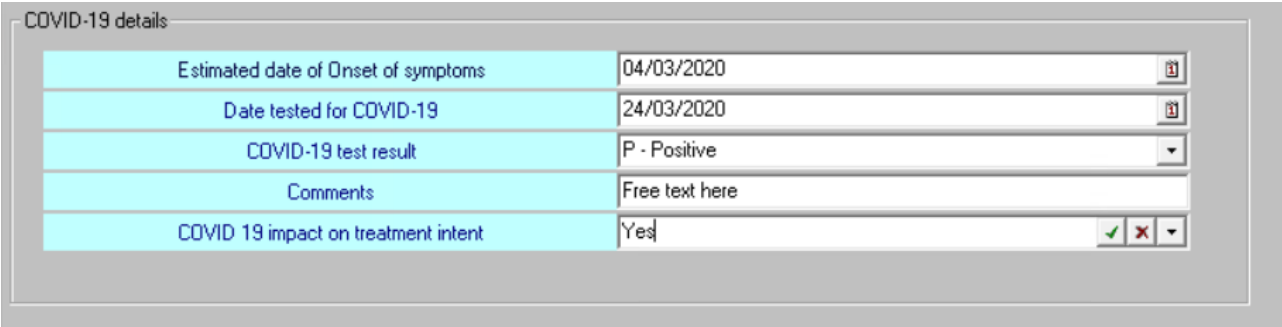
Date tested for COVID-19 (Date)

Test Result (Positive or Negative)

Comments (Free Text)

Impact on Treatment (Yes or No)

Potential screen design.



The screenshot shows a form titled "COVID-19 details" with five rows of data entry fields. Each row has a label on the left and a corresponding input field on the right. The input fields are: a date field for "Estimated date of Onset of symptoms" containing "04/03/2020", a date field for "Date tested for COVID-19" containing "24/03/2020", a dropdown menu for "COVID-19 test result" showing "P - Positive", a text field for "Comments" containing "Free text here", and a dropdown menu for "COVID 19 impact on treatment intent" showing "Yes". The form has a light blue header and a grey border.

COVID-19 details	
Estimated date of Onset of symptoms	04/03/2020
Date tested for COVID-19	24/03/2020
COVID-19 test result	P - Positive
Comments	Free text here
COVID 19 impact on treatment intent	Yes

4 SETTING ALERTS

Once the data is recorded in InfoFlex, the system can then automatically alert the users of the patient's COVID-19 status. The alert rules to support this are locally configurable.

A simple rule would be if the 'Date tested for COVID-19' is not blank then display a message to the user

4.1 Visual display of text

In the example below the text alert and the pathology test result is shown in the cancer tracking screen.

The screenshot displays a complex form for cancer tracking. It is divided into several sections: 'Actual Pathway Dates', 'Target dates', 'Primary Diagnosis (ICD)', 'Morphology (SNOMED)', 'Active Speciality', 'Pre-Treatment TNM Staging', 'Integrated TNM Staging', and 'Cancer or Symptomatic Breast Referral Patient Status'. The 'Actual Pathway Dates' section includes fields for 'Start of Pathway', 'Referral to First Seen (14d)', 'Faster Diagnosis (28d)', 'DTT to Treatment (31d)', 'Referral to Treat (31/62d)', and 'End of Pathway'. The 'Target dates' section includes 'Duration (non-adjusted)', 'Duration (adjusted)', and 'Within Target?'. The 'Primary Diagnosis (ICD)' and 'Morphology (SNOMED)' sections have dropdown menus. The 'Active Speciality' section has a dropdown menu and a 'Specialty Transfer Date' field. The 'Pre-Treatment TNM Staging' and 'Integrated TNM Staging' sections have dropdown menus and 'Org. (Pre-tx)' and 'Org. (Int)' fields. The 'Cancer or Symptomatic Breast Referral Patient Status' section has a dropdown menu. On the right side, there is a vertical list of menu items: 'First Seen Details', 'PTL Tracking', 'Diagnosis Details', 'Care Plan/ Site staging', 'TNM Staging', 'Pathway Delays', 'Investigations Summary', 'Central Nervous System Investigations', 'Risk Factors & Other Results', 'Haematology Results', 'Lung Assessment', and '1st Treatment Summary'. A red box highlights the 'Patient tested for COVID-19' and 'COVID-19 test result' fields, which show a 'Positive' result.

In the following example the message is at the patient details level.

The screenshot displays the 'Patients Details' form. It is divided into several sections: 'Patients name', 'Patients numbers', 'Patients other details', 'GP Details', and 'Codes'. The 'Patients name' section includes fields for 'Title', 'Forename', 'Surname', 'Nee Forename', and 'Nee Surname'. The 'Patients numbers' section includes fields for 'MRN Number' and 'NHS Number'. The 'Patients other details' section includes fields for 'Date Of Birth', 'Sex', 'Date of Death', 'Marital Status', 'Telephone Number', 'Alt Phone Number', and 'Requires a copy of letters'. The 'GP Details' section includes fields for 'GP Surname', 'GP Practice Name', 'Practice Address 1', 'Practice Address 2', 'Practice Address 3', 'Practice Address 4', and 'Practice Postcode'. The 'Codes' section includes fields for 'GP Initials', 'GP Code', and 'GP Practice Code'. A red box highlights a text alert at the bottom of the form: 'The patient has been tested positive for COVID-19 Please follow appropriate protocols'.

Document history

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