

IES Medical: Lab Tests

Purpose

The purpose of this Document is to describe the Lab Test functions, and how to use them.

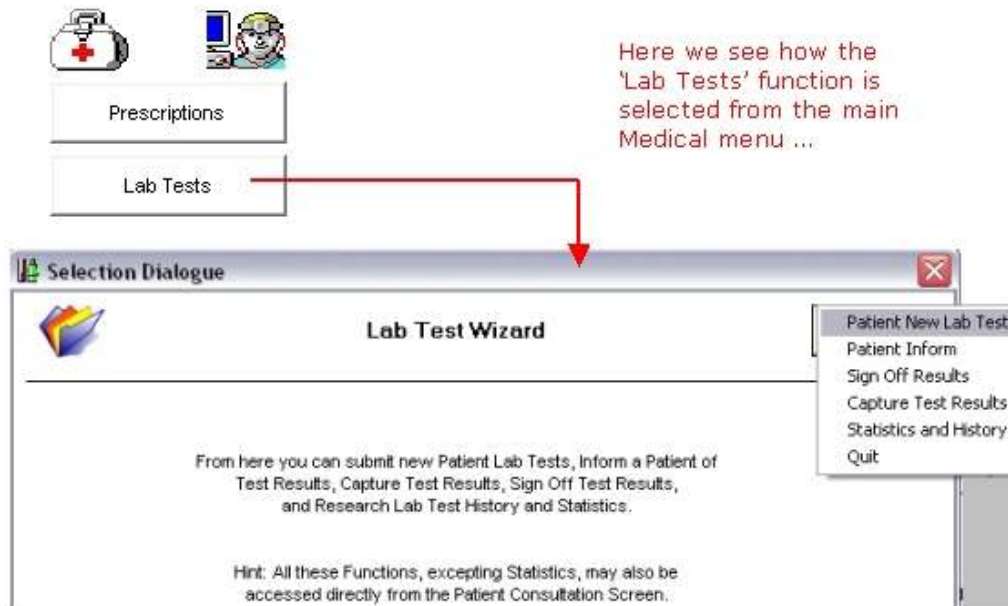


Introduction


The use of the on-line Lab Test function is entirely optional, but there is no doubt that it is useful to have this information (Patient lab test detail) on-line, even if it is captured after the fact. In other words, if laboratory tests are done manually and the detail captured onto the system afterwards, this is still worthwhile, because the history for the Patient is then more complete.

The Lab Tests Function

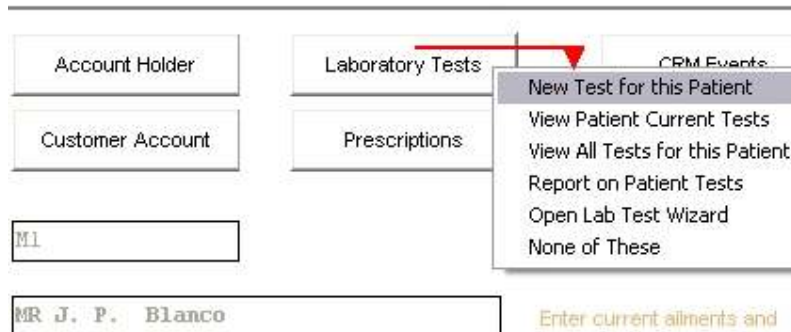
The function for laboratory tests is selected from the main Medical menu, but can also be entered from any Consultation screen.



Below, we show how the 'Laboratory Tests' function is selected from the Consultation screen.

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Consultation Record



The screenshot shows a web interface for a consultation record. On the left, there are several input fields: 'Account Holder', 'Customer Account', a field containing 'M1', and a field containing 'MR J. P. Blanco'. In the center, there is a 'Laboratory Tests' button. A red arrow points to this button, which has opened a dropdown menu. The menu options are: 'New Test for this Patient' (highlighted), 'View Patient Current Tests', 'View All Tests for this Patient', 'Report on Patient Tests', 'Open Lab Test Wizard', and 'None of These'. To the right of the menu, there is a 'CRM Events' button. Below the patient name field, there is a text input field with the placeholder text 'Enter current ailments and...'.

The main Lab Tests wizard offers the following functions: -

- Patient New Lab Test – Select the Patient, and perform a new test.
- Patient Inform – Tell the system about informing the Patient of a result.
- Sign Off Results – Tell the system that you have noted the test result.
- Capture Test Results – Capture test results to the system.
- Statistics and History – A search and report function.

The Consultation Lab Tests wizard offers the following functions: -

- New Test for this Patient – Perform a new test.
- View Patient Current Tests – Open the current list, drill from there for other functions.
- View All Tests for this Patient – As above, but including historical tests.
- Report on Patient Tests – Produce a listing.
- Open Lab Test Wizard – Open the same wizard as from the main Medical menu.


From the above, it becomes clear that from the Consultation record, ones works with the current Patient, whereas from the main wizard, one has to 1st select the Patient to work with. We will now look at each of the options further.

Patient New Lab Test

From the point of view of the Medical Practice, a Laboratory Test is always seen as being performed by a Laboratory outside of the Medical Practice. (The Laboratory itself is seen as a separate Medical Practice.)

A new test for a Patient therefore includes the capturing to the system of the Test that is being performed, and further details relating thereto.

You will capture (select or lookup) the test to be performed, and the Laboratory that will perform the test. The system will supply the current date and time, but these values can be changed (as may be necessary if captured after the fact ...). The system will also pull through to the notes field the current contact details for the Patient, so that if the Patient needs to be informed of the test results, then this information is already present on the screen. At the same time, other notes may be recorded in the notes field.

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New Lab Test

If the test to be performed is not yet on the 'list of tests', it can be defined by using 'Define Test Type' ...

Define Test Type

Patient: [4] M. J. P. Blanco

Test #: 209102 Hepatitis B Immune Status Prof

Category: Any

To Laboratory #: 01 Niehaus and Rossouw

Reference #: *

Dispatch: 15/11/2006

Time: 10:16:39

Notes: Contact Numbers: -
0826239965

Lab Test Sign Off ?

None

Only by ME

Anybody with Access

Patient to be informed ?

Patient To Be Informed

You may also select a 'sign off' indicator. If you choose 'me' or 'anybody with access' then the system will ensure that this test remains active until the system is told that the test results have been duly noted by the necessary person.

If 'Patient to be informed' is checked, then the system will ensure that the test remains current (active) until the system is advised that the Patient has been duly informed.

Patient Inform

Selection Dialogue

Facilitated Method
Select Patient, Select Lab Test

Patient Inform

There are 2 ways of using this Function.

FACILITATED METHOD will automatically present Lab Test records where Results have been received, and the Patient still needs to be informed. You may SKIP any Record and proceed with the Next.

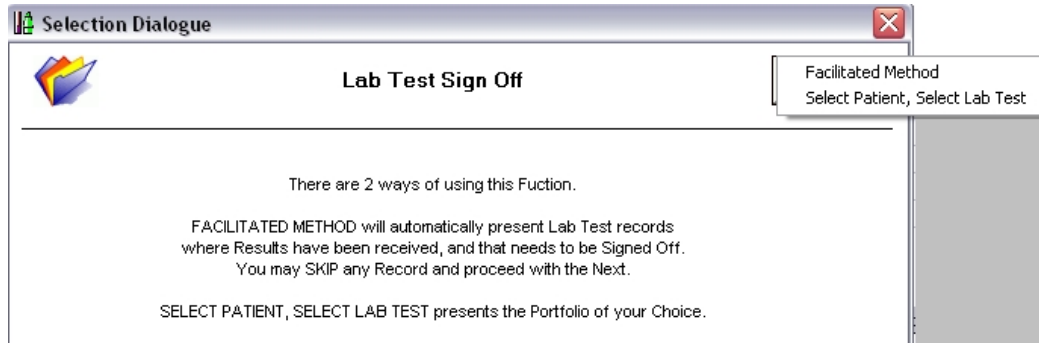
SELECT PATIENT, SELECT LAB TEST presents the Portfolio of your Choice.

As shown above, 'informing the Patient' can be done by the facilitated method (which will automatically present "open" tests where the Patient still needs to be informed), or by selecting the Patient then the Test for which the Patient has been informed. Once a Lab test record is shown (see 'Capture Test Results' example lower down ...), you can just choose 'Patient Informed'.

If the facilitated method is used, the system presents one test after another, and if a test is presented where you cannot reach the Patient at the moment, you just choose EXIT to move to the next test.

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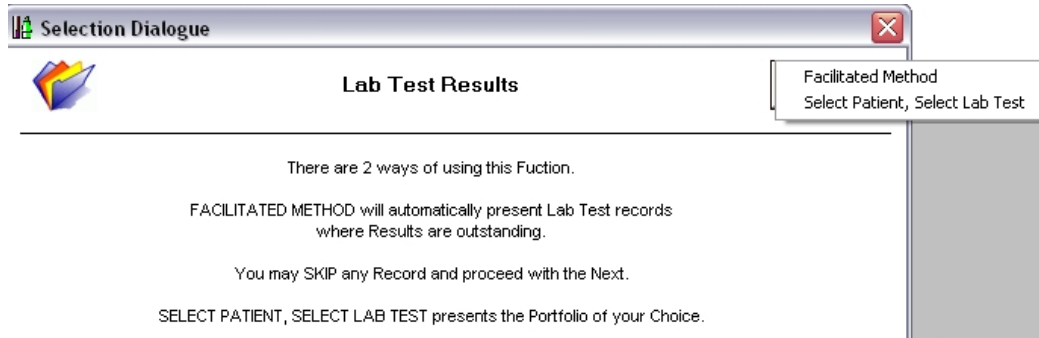
Sign Off Results




As shown above, 'sign off' can be done by the facilitated method (which will automatically present "open" tests that still require 'sign off', or by selecting the Patient then the Test to sign off. Once a Lab test record is shown (see 'Capture Test Results' example lower down ...), you can just choose 'Sign Off'.

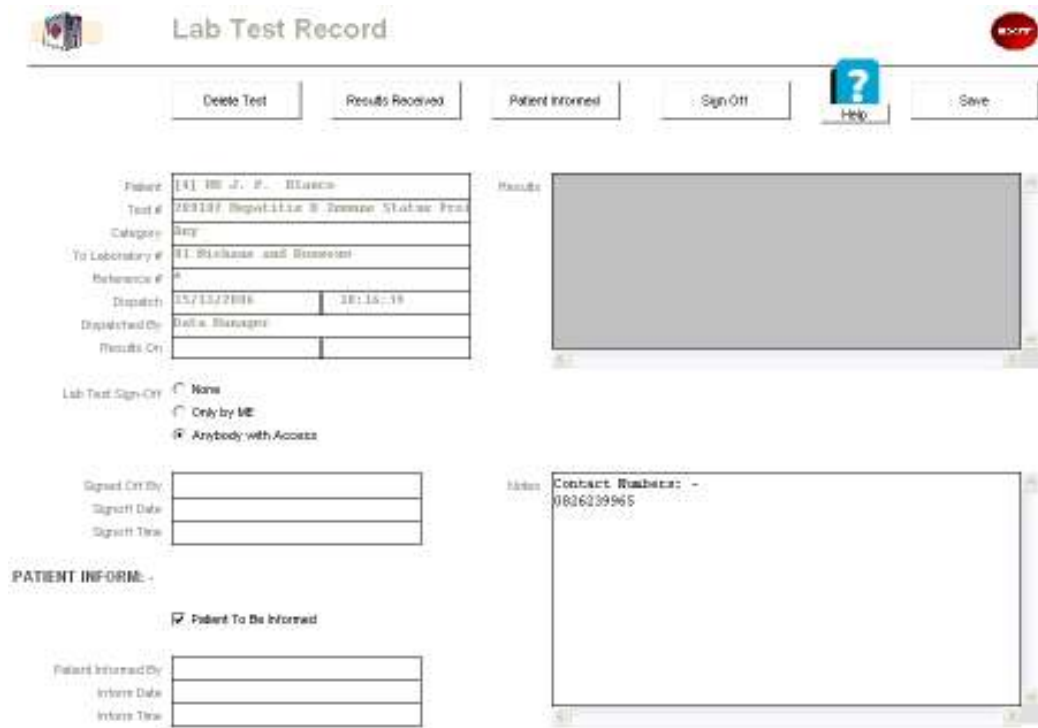
If the facilitated method is used, the system presents one test after another, and if a test is presented where you do not wish to 'sign off' yet, you just choose EXIT to move to the next test.

Capture Test Results



As shown above, the capturing of test results received from the Laboratory can be done by the facilitated method, or by selecting the Patient then the Test for which to feed the results. Once a Lab test record is shown (as below), the results for that test may be captured.

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Lab Test Record

Patient: [4] Mr J. P. Blake
 Test #: 28317 Respirilia & Zimmur Status Pr
 Category: Brg
 To Laboratory #: RT. Blake and Broomer
 Reference #: P
 Dispatch: 05/13/2006 10:15:19
 Dispatched By: Della Blauger
 Results On:

Lab Test Sign-Off:

 None

 Only by ME

 Anybody with Access

Signed Off By:

 Signed Date:

 Signed Time:

PATIENT INFORMED:

Patient To Be Informed

Patient Informed By:

 Informed Date:

 Informed Time:

Results:

 Contact Numbers: -

 0806039965

The Lab Test screen now has further functions: -

- Delete Test – remove the test from the system.
- Results Received – fills in the date and time automatically, you just capture the actual results in the 'Results' field.
- Patient Informed – fills in the date and time, and the operator who informed the Patient.
- Sign Off – fills in the sign-off detail.
- Save – saves any changes just performed.

The HELP option will display the following -

When in UPDATE MODE on a Lab Test Record, the following function principles apply :-

JUST EXIT


Leaves the Record without any status change of the Information.

SIGN OFF

The system will fill in the Sign Off Detail, but it only becomes effective when the SAVE option is executed.

RESULTS

The system fills in Results Date and Time (both of these Fields may be edited by the User), but the User needs to capture the actual Test Results. The update only becomes effective

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IES Medical: Lab Tests

once the SAVE option is executed.

PATIENT INFORMED

The system fills in the detail, which becomes effective only when the SAVE option is executed.

DELETE

A Lab Test Record may only be Deleted by the original Signatory, e.g. the User who entered the Test in the 1st instance. Once a DELETE is confirmed, it becomes effective immediately.

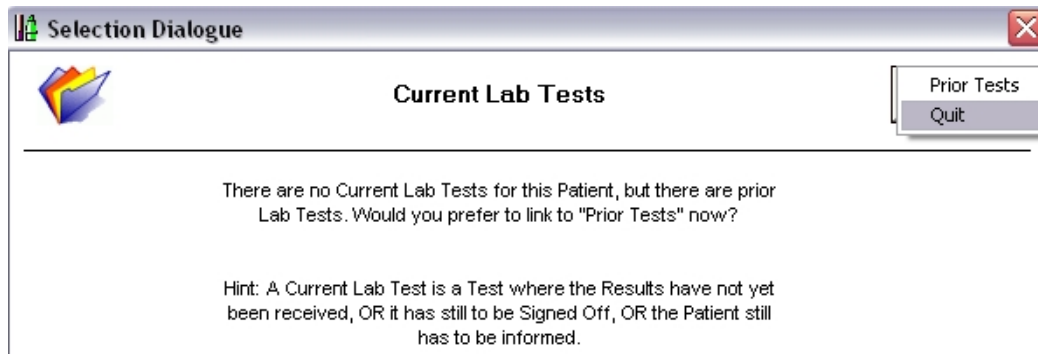
SAVE

When this option is executed, the latest information on the Record becomes effective, subject to the Business Rules outlined below :-

- 1) If there is no stated Requirement for the Patient to be informed, or for the Test to be Signed Off, then the Record only needs Results Details to be assigned to the Historical Queue, i.e. removed from Current.
- 2) If there is a stated Requirement for the Patient to be informed of Results, the Test remains Current until the Patient is informed.
- 3) If there is a stated Requirement for the Test to be Signed Off, it remains Current until Signed Off.
- 4) A Patient cannot be Informed nor a Test Signed Off until Results have been fed and SAVED.

Therefore, to capture results for a test, just choose 'Results Received', capture the results in the 'Results' field, and choose SAVE to move to the next test result.

View Patient Current Tests



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If there are no current Tests for this Patient, but there are prior Tests (already signed off and closed), then the system will advise as shown above, and allow you to review these prior tests.

If there are in fact current Tests, then the screen shown below is presented. It has 3 potential groups of Tests, e.g. those for which the results are still outstanding, those for which results are already present but the tests still need to be signed off and those for which the Patient still has to be informed. Hint: It is possible for a Test to appear at 'sign off' and at 'to be informed' at the same time. Any of these tests can be drilled into by dbl-clicking on them, and this is another useful method of performing the various Lab Test steps, e.g. feed results, inform patient, sign off, etc., because the Lab Test screen has all the same functions present as when using those steps from the main wizard.

Patient Current Lab Tests

Patient:

Pending Tests

	>>> Lab Test	Test Code	Despatched	By
Dbl-click a Test to update the results:	1 Hemoglobin F, Red Cell Distrib	8270	15/11/2006	Data Manager

New Do Edit Print

Must be Signed Off

	>>> Lab Test	Test Code	Sign Off By
Dbl-click a Test to update Sign-Off:	1		

Patient to be Informed

	>>> Lab Test	Test Code
Dbl-click a Test to update Patient Inform:	1	

View All Tests for this Patient

Patient Lab Test Log

Patient:

Lab Test History

	>>> Lab Test	Test Code	Test Date	By
Dbl-click a Test to drill into it.	1 Hemoglobin F, Red Cell Distrib	8270	15/11/2006	Data Manager
	2 Hepatitis B Immune Status Prof	209102	15/11/2006	Data Manager

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This option (example shown above) presents all past and present tests for this Patient (most recent at the top!), and you can drill into any test by dbl-clicking on it.

Hint: When you drill a 'closed' test, an option is presented to re-open it and restore it to the 'current' list of tests.

Report on Patient Tests

This is a useful option to get a report on test history for this patient. An example is shown below.

```
Lab Test History: MR J. P. Blanco [as at 15/11/2006]
```

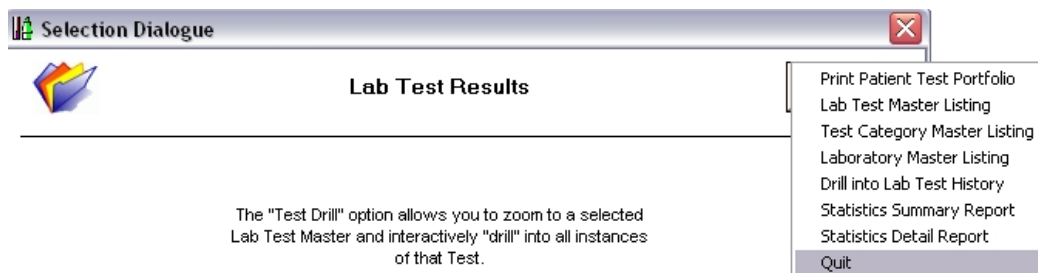
```
-----
Hemoglobin F, Red Cell Distribution, Blood
Lab: Niehaus and Rossouw
Despatched by Data Manager on 15/11/2006
```

```
Hepatitis B Immune Status Profile, S
Lab: Niehaus and Rossouw
Despatched by Data Manager on 15/11/2006
Results on 15/11/2006 :
    ... Negative
```

```
* end *
```


Statistics and History

This option opens another wizard with the options as shown -



Print Patient Test Portfolio

You select a Patient, and then you get the same Report as you would with 'Report on Patient Tests' (shown before), when on the Patient Consultation screen. This method is therefore useful to get a Patient Test Report without going to the Patient Consultation screen or history.

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Lab Test Master Listing

A Report of the Tests currently on the register of Tests than can be requested from a Laboratory. Hint: This option is also available from the main 'Reports' function.

Test Category Master Listing

A Report of the Test Categories currently on the register. Hint: This option is also available from the main 'Reports' function.

Laboratory Master Listing

A Report of the Laboratories currently on the register. Hint: This option is also available from the main 'Reports' function.

Drill into Lab Test History

With this option, you can select any test type, and the system will present all occurrences of this test type requested before, for any Patient, as shown below. You can then drill into any of these tests by dbl-clicking on it.



Lab Test Drill by Patient

Lab Test Master

Dbl-click any test to drill into it.

	>>> Patient	Date	By	Laboratory
1	[4] MR J. P. Blanco	15/11/2006	Data Manager	Niehaus and Rossouw
2	[2] MR J. Smith	15/11/2006	Data Manager	Niehaus and Rossouw
3	[6] MR S. Chang	15/11/2006	Data Manager	Niehaus and Rossouw

Statistics Summary Report

```

Lab Test Statistics: Summary

Test #..... Category..... Total.....
-----
Hepatitis B Immune Status Pro Any          1
file, S
-----
Hemoglobin F, Red Cell Distri Any          3
bution, Blood
-----
4

```

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This report allows you to select the Tests to report on, by date and other criteria, and then produces a summary like the example shown above.

Statistics Detail Report

Lab Test Statistics: Detail

Test #	Despatch	Despatched By	Patient	To Laboratory #
Hepatitis B Immune Status Prof ile, S	15/11/2006	Data Manager	[6] MR J. F. Bianco	01 Niehaus and Roseau
Hemoglobin F, Red Cell Distrib ution, Blood	15/11/2006	Data Manager	[4] MR J. F. Bianco	01 Niehaus and Roseau
Hemoglobin F, Red Cell Distrib ution, Blood	15/11/2006	Data Manager	[2] MR J. Smith	01 Niehaus and Roseau
Hemoglobin F, Red Cell Distrib ution, Blood	15/11/2006	Data Manager	[6] MR S. Chang	01 Niehaus and Roseau


The detail report option includes more detail about each test than the summary shown before, and also allows you to provide the selection criteria that determine the tests to be included in the report.

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Additional Keywords

Laboratory test results

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