

Southampton Pathology TTP GP requesting documentation

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Version Information

| Version | Date | Notes | Author |
|---------|------------|---|---------------|
| 1.1 | 23/08/2010 | First Issue | Keith Burrill |
| 1.2 | 6/04/2011 | Search function, collect later, graphical display screens and narrative updated | Keith Burrill |
| 2.0 | 27/07/2012 | Demand Management section added | Keith Burrill |
| 3.0 | 30/05/2013 | Updated with new ICE screens deployed 2 nd June 2013, and with integrated demand management guidance | Keith Burrill |

Online Pathology test ordering for TPP users

Pathology tests can be requested electronically from within the TPP system. The request once made is stored electronically on the ICE server at the Trust and a hard copy request form printed within the surgery.

To request a Pathology test

Ensure the Pathology Request option is added to the clinical tree within TPP.

Select a patient on TPP

Right click on 'Pathology Requests' and select 'New Electronic Pathology/Radiology Request'.

The screenshot shows the SystmOne software interface for a patient record. The main window displays a table of 'Pathology Requests' with columns for Date, Reference, Description, Status, and Notes. A context menu is open over the 'Pathology Requests' entry in the left-hand clinical tree, showing options: 'New Electronic Pathology/Radiology Request', 'New Manual Pathology/Radiology Request', 'Clinical Tree Configuration', 'Customise Clinical Tree', and 'Configure Shortcuts'.

| Date | Reference | Description | Status | Notes |
|-------------------|-----------|---|-----------------|-------|
| 13 Apr 2007 10:52 | 2961176 | Mid Stream Urine (Requested) | Request Sent | |
| 13 Apr 2007 10:52 | 2961183 | ESR (Postponed) | Awaiting Sample | |
| 13 Apr 2007 10:52 | 2961174 | FBC (Requested), HBA1c (Deleted), Diabetic Review (Requested), Malarial Screen (Requested), UandE (Requested), Liver Profile (Deleted) | Request Sent | |
| 13 Apr 2007 10:52 | 2961175 | | Request Sent | |
| 13 Apr 2007 12:10 | 2961689 | Albumin/Creatinine Ratio (Requested) | Request Sent | |
| 13 Apr 2007 12:10 | 2961690 | Glucose Fasting (Requested) | Request Sent | |
| 13 Apr 2007 12:10 | 2961689 | | Request Sent | |
| 13 Apr 2007 12:10 | 2961870 | FBC (Requested), HBA1c (Requested), Diabetic Review (Requested), UandE (Requested), Liver Profile (Requested), Thyroid Function (Requested) | Request Sent | |
| 13 Apr 2007 12:10 | 2961871 | Mid Stream Urine (Requested) | Request Sent | |
| 13 Apr 2007 12:10 | 2961945 | INR (Requested) | Request Sent | |

ICE requesting is launched:

ICE Requesting tabs

Patient Name: **Two EDITESTPATIENT** Hospital Number: **3569039** Sex: **Female** << Back
 Date of Birth: **29 February 1964** NHS Number: **No NHS Number**
 Address: **Mail Point 8, UHS Pathology, Southampton General Hospital, SO16 6...** Telephone No: View Details

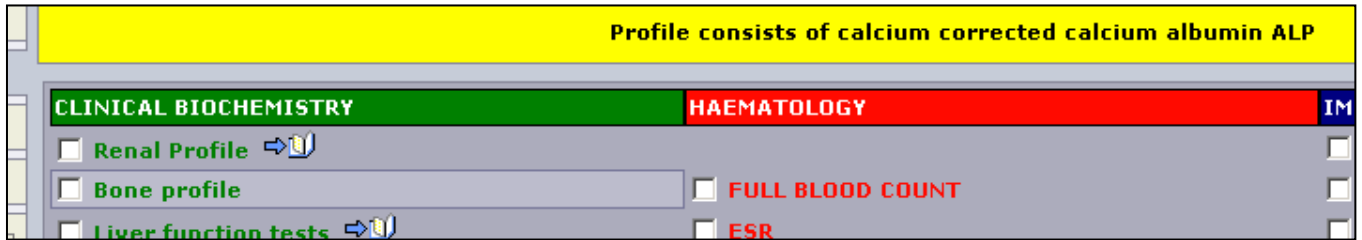
GP Requesting GP Testing You have new ICEMail

Blood Sciences
 Immunology
 Microbiology
 Virology
 Histo & Cyto
 Panel - Lab Med
 Search
 Set as Default Panel

| CLINICAL BIOCHEMISTRY | CLINICAL BIOCHEMISTRY | HAEMATOLOGY |
|--|--|---|
| <input type="checkbox"/> Renal Profile | <input type="checkbox"/> Vitamin B12 (Vit B12) | <input type="checkbox"/> FULL BLOOD COUNT |
| <input type="checkbox"/> Bone profile | <input type="checkbox"/> Folate | <input type="checkbox"/> ESR |
| <input type="checkbox"/> Liver Profile-GP | <input type="checkbox"/> Fasting glucose | <input type="checkbox"/> Infectious Mononucleosis test. |
| <input type="checkbox"/> Non-Fasting Glucose | | <input type="checkbox"/> Hb Electrophoresis |
| <input type="checkbox"/> HBA1C | | <input type="checkbox"/> Malarial parasites. |
| Non Fasting Lipids | | |
| Fasting lipids | | |
| <input type="checkbox"/> PSA | | <input type="checkbox"/> INR (Warfarin) |
| <input type="checkbox"/> Thyroid Screening | | <input type="checkbox"/> Coagulation Screen |
| <input type="checkbox"/> TSH only - For thyroxine monitoring | | <input type="checkbox"/> D-Dimer Assay |
| <input type="checkbox"/> C-Reactive Protein | | <input type="checkbox"/> APTR (Heparin) |
| <input type="checkbox"/> Lithium | | |
| <input type="checkbox"/> Urea | | |
| <input type="checkbox"/> Ferritin | | |
| | BLOOD TRANSFUSION | Service Information Links |
| | <input type="checkbox"/> Group and Screen | <input type="checkbox"/> Laboratory Medicine Handbook |
| | | <input type="checkbox"/> SUHT ICE information |

Within the ICE system the Pathology tests and investigations are presented within a column of tabs on the LH side. Within each tab are requests for the pathology discipline(s). The first page displayed is labelled 'Laboratory Medicine', however a GP user may prefer to select another page and make this the default opening page. To do this display the required page on screen and then select the grey button 'Set as Default Panel'.

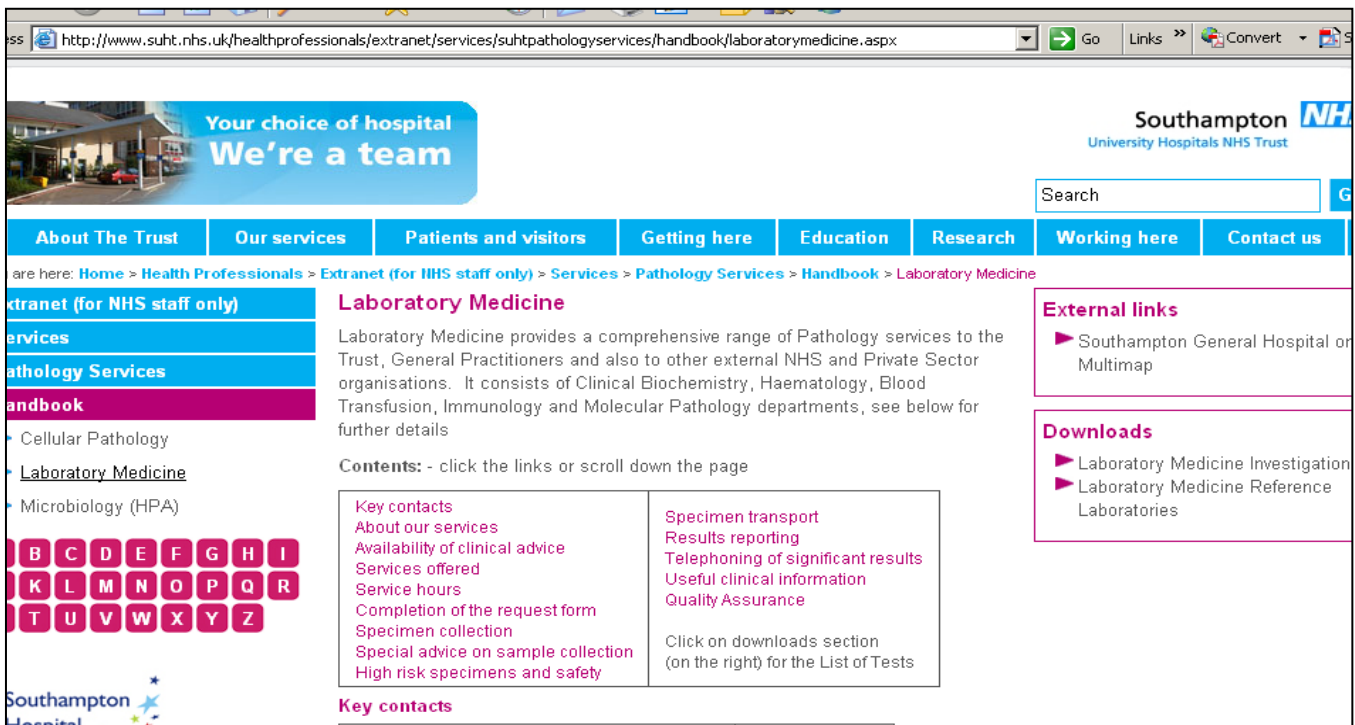
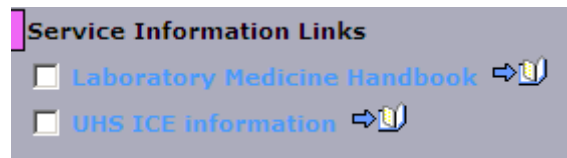
Hover the **mouse over a test name** and it will show any help text (back text, yellow background)



Some further information is presented in the form of **external links (URLs)**

These can either be attached to a test, or presented as dedicated information links which are 'non-requestable pseudo tests'. In either case click on the open book icon and the link will open in a new window

The following items are not tests, click the open book item to access Laboratory Service Information which opens in a new browser window and this is independent to the ICE system



Example link to Laboratory Services Information

Check the box against a selected test to make a request.

If you cannot find a test then use the 'Search' function.

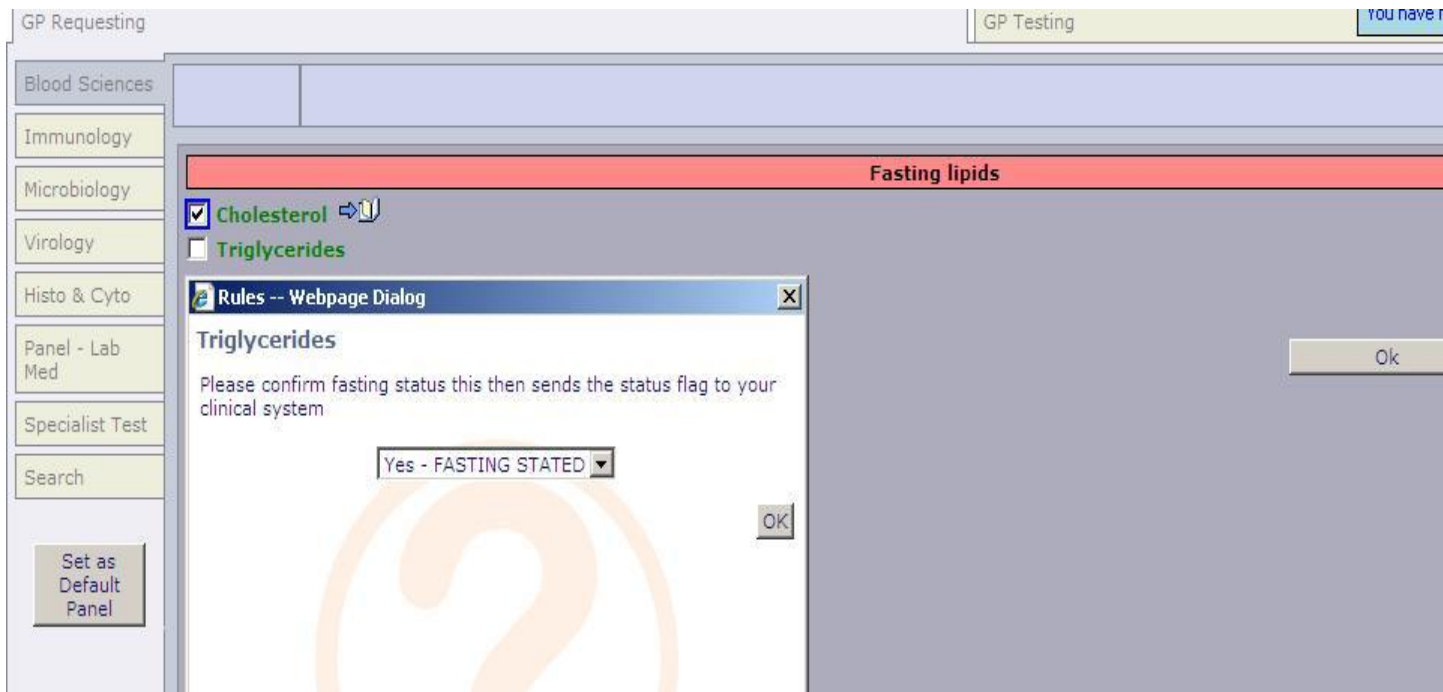
Having selected the required test(s) left click the mouse on the green 'Continue with request' button.

Note that some tests are presented as collections of tests – see the Demand Management section for more detail and examples of collections

Fasting lipids and fasting Glucose

A fasting prompt remains, attached to both Glucose and Triglycerides, though the fasting prompt will ONLY prompt the user once in any one ICE patient-request session. This prompt is essential to record and send the clinical indicator fasting status (Fasting stated =Y) back to the GP practice via PMIP results reporting; it also triggers a 'failsafe' Fasting stated comment from the lab system. This clinical status if set should be displayed in your GP clinical system against the investigation results set. In accordance with national pathology reporting guidance the test name remains the same for both fasting and non-fasting tests reported to GP practice, the fasting status is an attribute.

Publication note: As there is only one option here we logged a call with supplier to see if this can be defaulted (supplier log 00806021 logged 10/05/2013) unfortunately the advice is that this option is currently not available



Using the search function

Click on the 'Search' button and the search page is displayed.

Enter part of the test name into the 'Test name' field and select 'Search'. All potential matches will be displayed.

The screenshot shows a search interface with the following elements:

- Search:** for
- Tests
- Test Collections
- Name:** PCR
- Search in:**
- this panel only
- all tests/collections
- Search type:**
- descriptions
- codes
- descriptions & codes
- Search for text:**
- Anywhere in name
- From the start of the name
- Search** button
- Results:** A list of search results with checkboxes:
 - Enterovirus PCR
 - Herpes simplex PCR
 - Protein/Creatinine Ratio (URINE PCR)

Having selected the required test(s) left click the mouse on the green 'Continue with request' button.



Completing the request

After selecting the 'Continue with the request button' the following screen will appear

| | | | | | |
|----------------|--|---------------|--------------|---------------|------|
| Patient Name: | Four EDITESTPATIENT | Hospital No.: | 3586936 | Sex: | Male |
| Date of Birth: | 12 February 1911 | NHS no: | 999 999 9492 | | |
| Address: | MAIL POINT 8, Southampton, Hampshire, SO16 6YD | | | Telephone No: | |

Please complete the following details regarding your request. Once you have completed the details, click the 'Accept Request' button to continue or 'More Tests' to add more tests. Fields with a s

General Details:

User:

Bleep / Contact No:

Requesting Consultant / GP:

Location:

Global Clinical Details:

Test ICE request, as priority has been set as urgent there is a requirement to complete Bleep/Contact No:

Category:

Order Details:

Immunology

Tests in this order: Immunoglobulins

I wish to collect the sample(s) later

Print a postponed request summary for this order

Medical Microbiology

Tests in this order: Urine MC&S

I wish to collect the sample(s) later

Priority:

Sample collection options:

Collect now

Unspecified date and time

Laboratory Medicine

Tests in this order: FULL BLOOD COUNT

I wish to collect the sample(s) later

Priority:

Sample collection options:

Collect now

Unspecified date and time

The 'Requesting Consultant/GP' will default to the person making the request on the TPP system, if the individual is a GP at the practice. It will be this named individual the report will be sent to.

If you are a practice nurse or requesting on behalf of a GP you **MUST** change the requesting clinician field to display the name of the GP responsible for the patient.

Enter the clinical details in to the free text 'Global Clinical Details' box.

If the request is **Private** or **Category 2** select this from the category pick list. The default is GP.

If the request is **Urgent** select the urgent flag from the 'Priority' pick list. Ensure a contact number has been entered in to the 'Bleep/contact no' field.. Please precede your entry with a description of the contact mechanism eg "Tel: 023 8079 6705" this will then print clearly on the form

Sample collection options

There are a variety of options available for sample collection.

There may be more than one 'Order Details' option to complete.

Sample later

If your practices wishes to defer sample collection (Postpone) and delay the printing of the request form then select the option 'I wish to collect the sample(s) later' and select 'Accept Request'. This action will place the request on a pending queue and a form will not be printed. The pending queue can be accessed at a later date when the specimen is to be taken. This option is useful when the practice uses a Practice based Phlebotomy service

↑ **Immunology**
Tests in this order: Immunoglobulins
 I wish to collect the sample(s) later

Collect now

This option will default today's date and current time into the request ready for when the request form is to be printed now and the sample(s) are to be collected now

↑ **Medical Microbiology**
Tests in this order: Urine MC&S
 I wish to collect the sample(s) later
Priority: **Urgent/Stat**
Sample collection options:
 Collect now
 Unspecified date and time

Collect later / Unspecified date and time

This option will NOT set any date and time to the request. The request form is to be printed now and the sample(s) are to be collected later by a Practice or other Phlebotomy service, say when the patient presents with the form. When these samples are collected the date and time of collection needs to be manually entered on the form(s) and container(s)

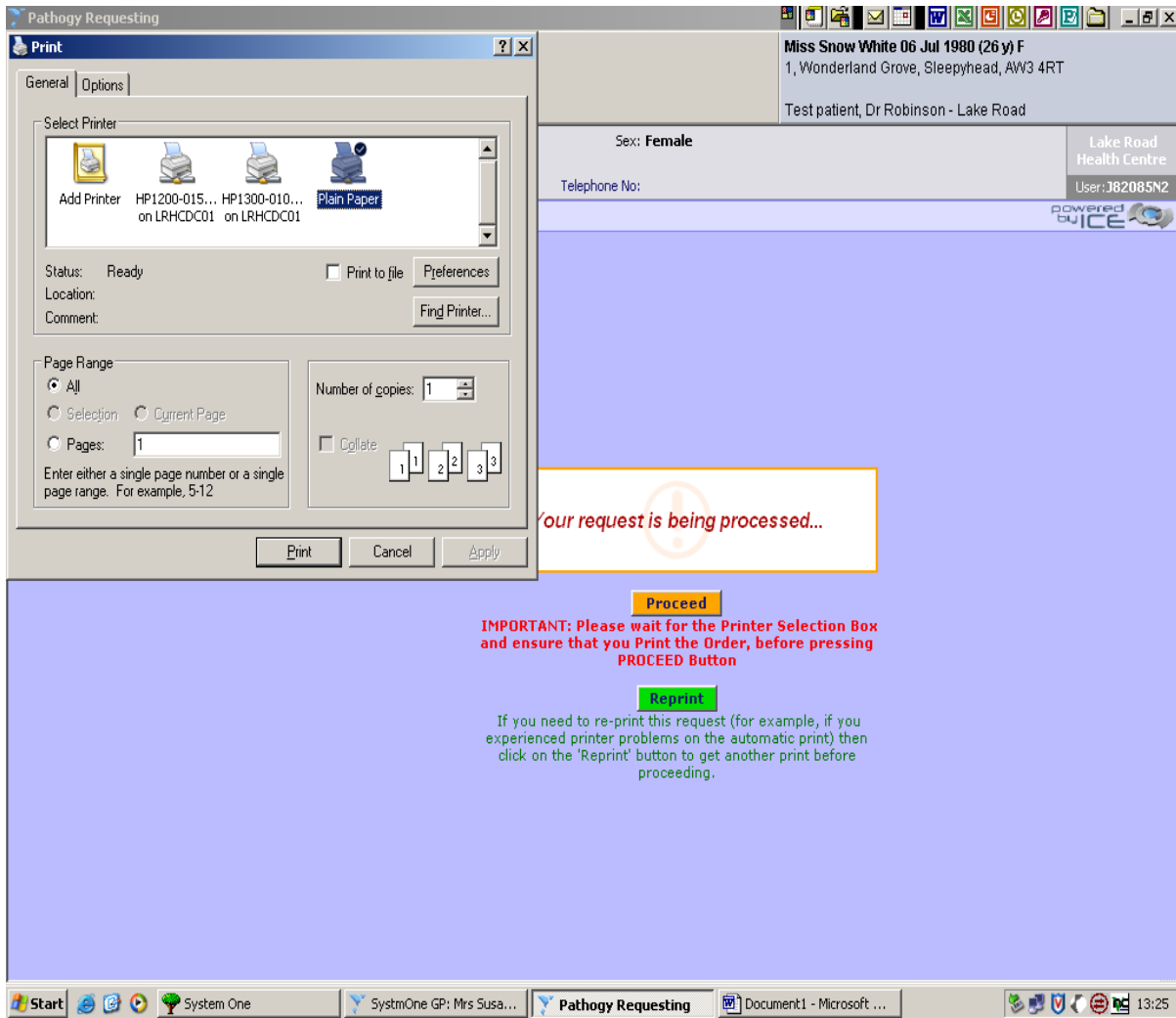
↑ **Laboratory Medicine**
Tests in this order: FULL BLOOD COUNT
 I wish to collect the sample(s) later
Priority: **Routine**
Sample collection options:
 Collect now
 Unspecified date and time

To complete the request select the 'Accept Request' button.

More Tests | Accept Request | Review

Printing the request form

Once the 'Accept Request' button is selected the system will initiate the printing of the hard copy form. It is important to wait for the printer box to appear before proceeding. A printer box will appear with the default set to the printer in the room or the printer set-up as a default for the PC.



Select the 'Print' button.

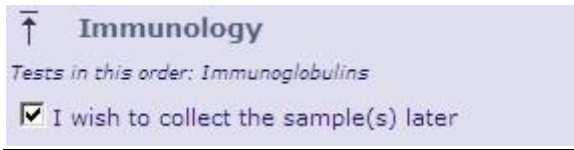
Once the form has printed select the orange 'Proceed' button . This records the request against the patient record in TPP.

If multiple forms require printing the print dialogue will re-appear on screen. Repeat the above process ensuring the orange 'Proceed' button is selected after each print action.

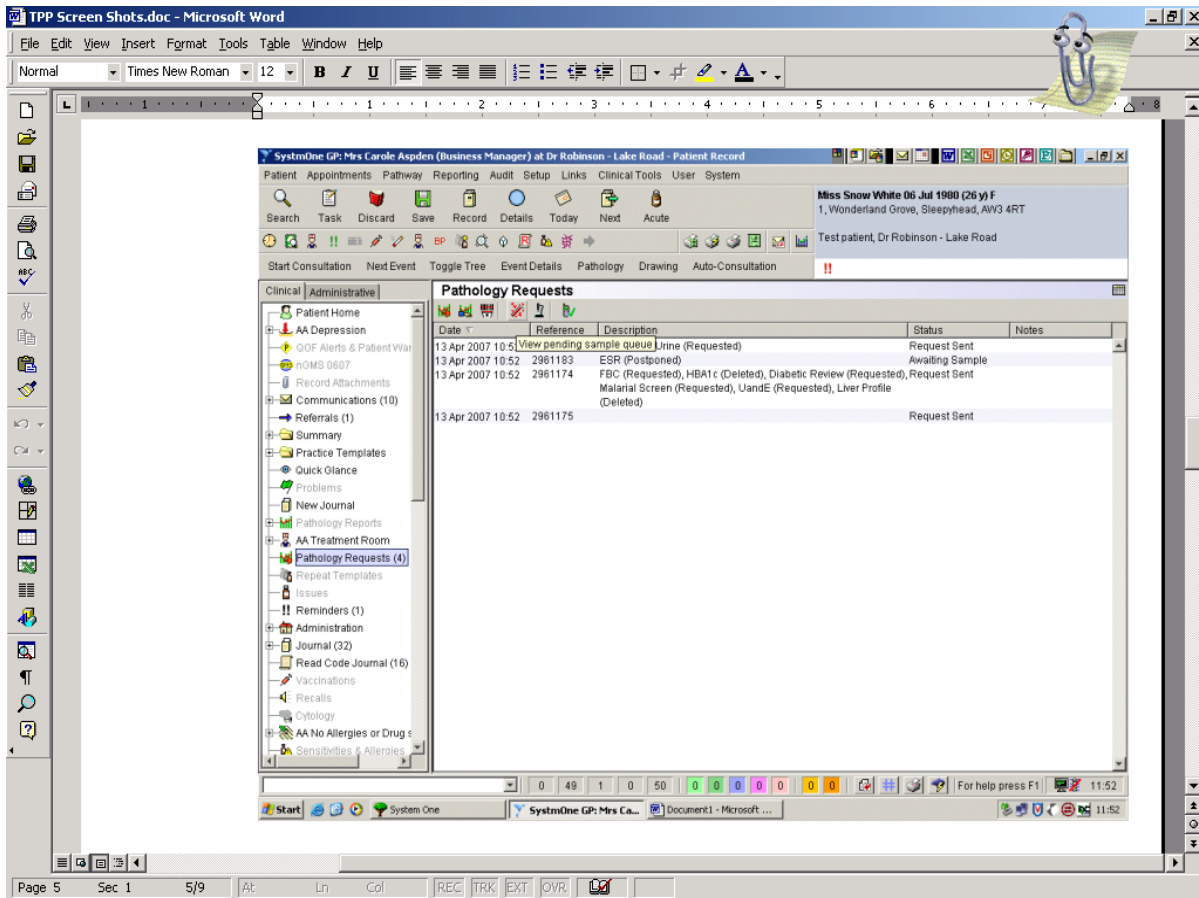
The request will be displayed 'Test name (Requested)' with 'Request Sent' in the status field.

Taking a sample later

This section describes how to process requests for samples which were earlier selected to be retained within the system:



Select the 'View Pending Sample Queue' icon in 'Pathology Requests' third icon from the left.



Select the test for completion and enter the specimen collection details.

Select 'Accept Request' button then follow the printing instructions listed under 'Print the request form'. The request appearance on TPP will change from 'Test name (Postponed), Status 'Awaiting Sample' to 'Test name (Requested), status 'Request Sent'.

Reprinting a request form

Select the icon 'View pending request list', second icon from the left.

Pathology Requesting

Cancel

Miss Snow White 06 Jul 1980 (26 y) F
1, Wonderland Grove, Sleepyhead, AW3 4RT
Test patient, Dr Robinson - Lake Road

Patient Name: **Miss Snow White** Hospital No.: **ICE30857** Sex: **Female** Lake Road Health Centre
Date of Birth: **06 July 1980** NHS no: Telephone No: User: J82085N2
Address: **1, Wonderland Grove, Sleepyhead, Unknown, AW3 4RT**

Services

Requests By Patient: Status: [ALL] (excludes deleted requests)

| Date/Time Requested | Investigations (Request Comments, Clinical Details) | Loc | Ordered By | Status |
|---------------------|---|------|------------|--------|
| 13/Apr/2007 13:24 | ESR - ESR | LRHC | J82085N2 | REQ |
| 13/Apr/2007 13:01 | I - JMR | LRHC | J82085N2 | REQ |
| 13/Apr/2007 12:35 | UMC:MSU - Mid Stream Urine | LRHC | J82085N2 | REQ |
| 13/Apr/2007 12:35 | F - FBC GLHB - HbA1c ICET - Diabetic Review | LRHC | J82085N2 | REQ |
| 13/Apr/2007 12:13 | FF3 - Glucose Fasting | LRHC | J82085N2 | REQ |
| 13/Apr/2007 12:13 | MA - Albumin/Creatinine Ratio | LRHC | J82085N2 | REQ |
| 13/Apr/2007 11:17 | ESR - ESR | LRHC | J82085N1 | POS |
| 13/Apr/2007 11:10 | UMC:MSU - Mid Stream Urine | LRHC | J82085N1 | REQ |
| 13/Apr/2007 11:10 | F - FBC ICET - Diabetic Review MALS - Malaria! | LRHC | J82085N1 | REQ |

Request Options -- Web P... X

Edit Request
Delete Request
Reprint Request
Write Report
Cancel

<< Previous Page Next Page >>

Start System One SystemOne GP: Mrs Susa... Pathogy Requesting Document1 - Microsoft ... 13:26

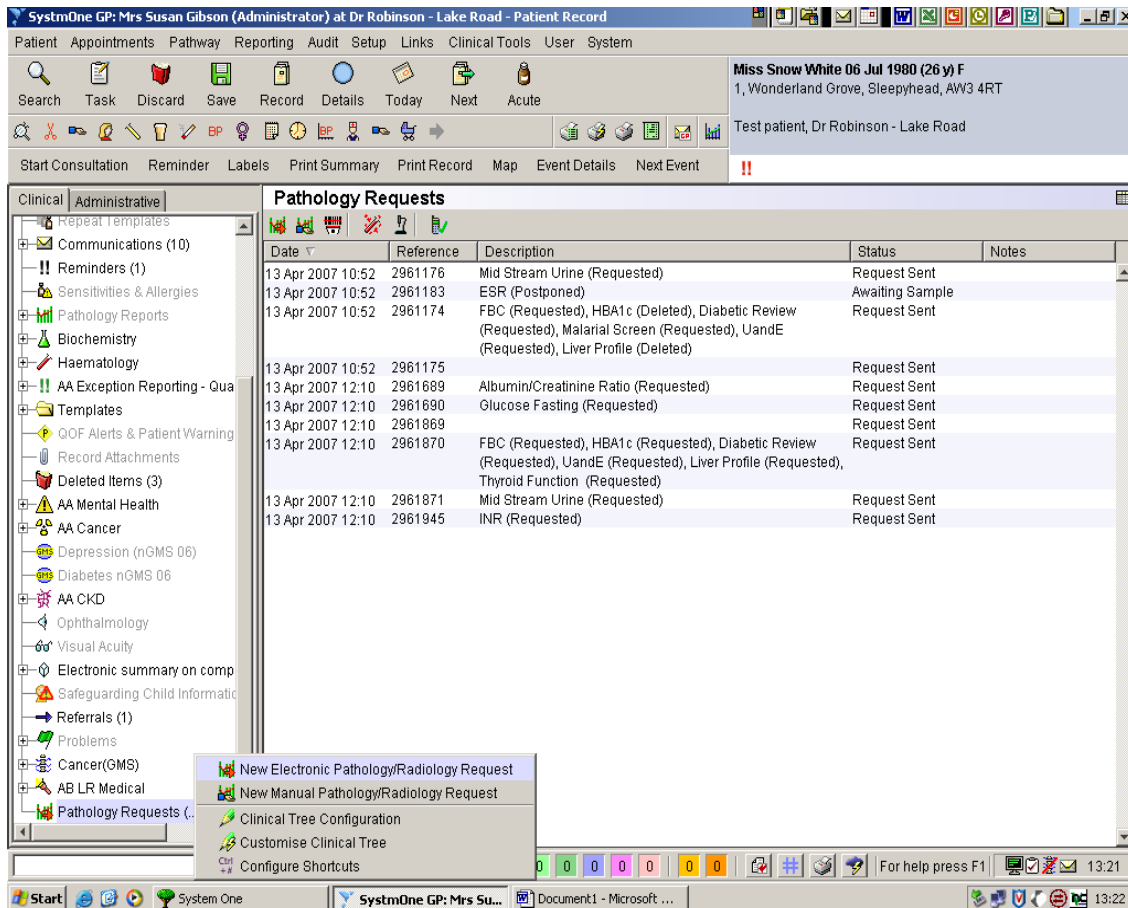
It is possible to 'Edit Request', 'Delete Request' and 'Reprint Request', from this screen.

To exit the screen select the 'Cancel' button in the top left hand corner.

To view patient reports.

Select a patient on TPP

Right click on 'Pathology Requests' and select 'New Electronic Pathology/Radiology Request'.



This will launch the ICE requesting module.

Once the ICE requesting screen is launched select the drop down 'Services' arrow.

Pathology Requesting

Miss Snow White 06 Jul 1980 (26 y) F
1, Wonderland Grove, Sleepyhead, AW3 4RT
Test patient, Dr Robinson - Lake Road

Patient Name: Miss Snow White Hospital No.: ICE30857 Sex: Female
Date of Birth: 06 July 1980 NHS no: Telephone No:
Address: 1, Wonderland Grove, Sleepyhead, Unknown, AW3 4RT

Services
Order Test
Patient Report List
Patient Request List
Patient Sample Queue

Special Haem
Immunology
Endocrine
Tumour Marker
Drugs
Dynamic F.Tests
Trace Metals
Proteins
Ward Profiles
GP Profiles
GP Page
Search

Most recent requests made for this patient:

| Requested | Investigations | Priority | Loc | Ordered | Status |
|----------------------|---|-------------|------|----------|--------|
| 13 Apr 2007 13:24:21 | ESR | Normal | LRHC | J82085N2 | REQ |
| 13 Apr 2007 13:01:52 | JMR | Normal | LRHC | J82085N2 | REQ |
| 13 Apr 2007 12:35:42 | Mid Stream Urine | Normal | LRHC | J82085N2 | REQ |
| 13 Apr 2007 12:35:42 | FBC, HBA1c, Diabetic Review, U&E, Liver Profile, Thyroid Function | Urgent/Stat | LRHC | J82085N2 | REQ |
| 13 Apr 2007 12:13:04 | Glucose Fasting | Normal | LRHC | J82085N2 | REQ |

Select 'Patient Report List'.

The web browser is launched to the Pathology ICE server and you will see the following screen listing all the reports that can be matched against the patient demographics. If there is more than one entry matching the patient demographics supplied then a patient list will be presented and the user will need to select the correct patient.

The reports displayed are for all episodes for the patient selected. The reports displayed are colour coded.

The reports can be filtered using the search fields at the top of the screen.

sunquest
ICE Desktop
web access

Patient Name: **Two EDITESTPATIENT** Hospital No.: **3569039** Sex: **Female** << Back TESTING
Date of Birth: **29 February 1964** NHS no: **999 999 9476** Telephone No: Edit Details User: burrik
Address: **AQUEOUS II, B6 5RQ**

Location: [All locations] Filter by specialty: [All specialties] Clinician: All clinicians Show reports up to: 10/05/2010 Show reports from: 05/05/2010
Print last 5 reports. Search Show All reports

< Earlier reports Later reports >

| Investigation | Requested By | Location | Sample Number | Sample Collected | Sample Received | Report Date | Status |
|--|------------------------|---------------------|---------------|------------------|-----------------|-------------------|--------|
| FULL BLOOD COUNT/Immunodeficie... | No Name/code NOT_GIVEN | TESTING | E1738759A | 06 May 2010 | 06 May 2010 | 06 May 2010 15:47 | F |
| FULL BLOOD COUNT | No Name/code NOT_GIVEN | TESTING | E1738760N | 06 May 2010 | 06 May 2010 | 06 May 2010 15:23 | F |
| Automated Group and Screen | Dr VIRTUALONE | TESTING | G1738517X | 21 Apr 2010 | 21 Apr 2010 | 21 Apr 2010 11:24 | I |
| Triglycerides/Cholesterol | Dr VIRTUALONE | TESTING | D1895149U | 14 Apr 2010 | 14 Apr 2010 | 14 Apr 2010 14:20 | F |
| Lactate | Dr VIRTUALONE | TESTING | D1895148M | 14 Apr 2010 | 14 Apr 2010 | 14 Apr 2010 14:19 | F |
| Vitamin B12/Renal Profile/Lith... | Dr VIRTUALONE | TESTING | D1895145P | 14 Apr 2010 | 14 Apr 2010 | 14 Apr 2010 14:19 | F |
| Glucose | Dr VIRTUALONE | TESTING | D1895144G | 14 Apr 2010 | 14 Apr 2010 | 14 Apr 2010 14:19 | F |
| HBA1C | Dr VIRTUALONE | TESTING | D1895147E | 14 Apr 2010 | 14 Apr 2010 | 14 Apr 2010 14:18 | F |
| Protein/Creatinine Ratio/Creat... | Dr VIRTUALONE | TESTING | D1895146W | 14 Apr 2010 | 14 Apr 2010 | 14 Apr 2010 14:16 | F |
| Automated Group and Screen | Mr VIRTUALTHREE | Virtual GP Practice | G1158917N | 17 Mar 2010 | 17 Mar 2010 | 17 Mar 2010 13:33 | I |

Abnormal numeric results are highlighted with an explanation mark within a red circle.

Double click on a selected report to see the detail.

Patient Name: **Two EDITESTPATIENT** Hospital No.: **3569039** Sex: **Female**
Date of Birth: **29 February 1964** NHS no: **999 999 9476**
Address: **AQUEOUS II, B6 5RQ** Telephone No:

< > Cumulative Back Print File ICEMail

| Reported | Specialty | Location | Clinician | Status |
|-------------------|---------------|----------|----------------------------------|--------|
| 14 Apr 2010 14:19 | Point of Care | TESTING | Dr VIRTUALONE (General Practice) | F |

This report is linked to other reports. Click on the links below to see these linked reports:

- [Lithium, Renal Profile, Vitamin B12 \(14 Apr 2010 14:19\)](#)

test 2.

Sample D1895144G (Plasma) Collected 14 Apr 2010 11:26 Received 14 Apr 2010 14:13

Glucose

* **2.0** mmol/L

Glucose Reference Range(fasting)= 4.0-6.0 mmol/L

Impaired fasting glycaemia = 6.1-6.9 mmol/L

Diabetes mellitus = fasting glucose 7.0 mmol/L & above

End of report

- Individual numeric indices can be presented in a cumulative format or graphed.
- Abnormal numeric results are displayed in red and marked with an asterisk.
- The 'Back' button on the options bar will take the user back to the summary view of the reports.
- The < and > arrows will enable the user to navigate both forward and back through the reports chronologically.
- If the result displayed was ordered at the same time as another set of result investigations and these are results are available to view then the purple hypertext linkage option will also be shown

Select the 'Cancel' button to close the page.

Example of cumulative report:

| | | | | | | | |
|---|--|---|--|------------------|--|-------------------------------|--|
| Patient Name: Four EDITESTPATIENT | | Hospital No.: 3586936 | | Sex: Male | | << Back | |
| Date of Birth: 12 February 1911 | | NHS no: 999 999 9492 | | | | Home | |
| Address: MAIL POINT 8, Southampton, Hampshire, SO16 6VD | | | | Telephone No: | | Edit Details | |
| Date: <input type="text"/> | | <input type="button" value="..."/> <input type="button" value="<<"/> <input type="button" value="<"/> <input type="button" value=">"/> <input type="button" value=">>"/> <input type="button" value="Cumulative"/> <input type="button" value="Back"/> <input type="button" value="Print"/> <input type="button" value="Profile"/> <input type="button" value="Tests Only View"/> | | | | | |
| <input type="checkbox"/> Match up test results across investigations | | | | | | | |
| IMPORTANT: This is a summary and may not show comments from the original report(s) | | | | | | | |
| | | | | Reported | | | |
| Investigation/Test | | Range | | Units | | 07 Apr 2010 11:09 | |
| | | | | | | 07 Apr 2010 11:25 | |
| | | | | | | 26 Sep 2010 12:02 | |
| | | | | | | 23 Nov 2010 10:30 | |
| | | | | | | 26 Nov 2010 15:25 | |
| | | | | | | 06 Dec 2010 09:13 | |
| Immunoglobulins | | | | | | | |
| IgA | | (0.80 - 4.0) | | g/L | | *0.50 | |
| IgG | | (6.0 - 16.0) | | g/L | | *52.2 | |
| IgM | | (0.50 - 2.00) | | g/L | | *0.1 | |
| Mitochondrial M2 antibody | | | | | | | |
| Mitochondrial M2 antibodies | | (0 - 5) | | u/mL | | *15.6 | |
| Myeloperoxidase antibody | | | | | | | |
| Myeloperoxidase antibody | | (0 - 9.0) | | u/mL | | *56.6 | |
| Proteinase 3 antibody | | | | | | | |
| Proteinase 3 antibody | | (0 - 9) | | u/mL | | 1.5 | |
| Renal Profile | | | | | | | |
| Creatinine | | | | umol/L | | 70 99 92 | |
| ESTIMATED GFR | | | | mL/min/1.73m2 | | >90 60 66 | |
| Potassium | | (3.5 - 5.0) | | mmol/L | | 4.00 4.00 4.30 | |
| Sodium | | (136 - 144) | | mmol/L | | 140 *135 *130 | |
| Urea | | (2.9 - 7.1) | | mmol/L | | *8.0 5.0 6.5 | |
| Scanned monoclonal component | | | | | | | |
| Scanned monoclonal component | | | | g/L | | 48.0 | |
| Tissue Transglutaminase IgA | | | | | | | |
| TTG IgA | | (0 - 4) | | u/mL | | *26.5 | |
| End of report | | | | | | | |

Example of clicking a test shown in cumulative view

Renal Profile - Urea for four editestpatient -- Webpage Dialog

https://nwww.rhmice.suht.nhs.uk/ICEdesktop/dotnet/icedesktop/reporting/ResultHistoryFrame.asp

Urea - (across all investigations) [mmol/L]

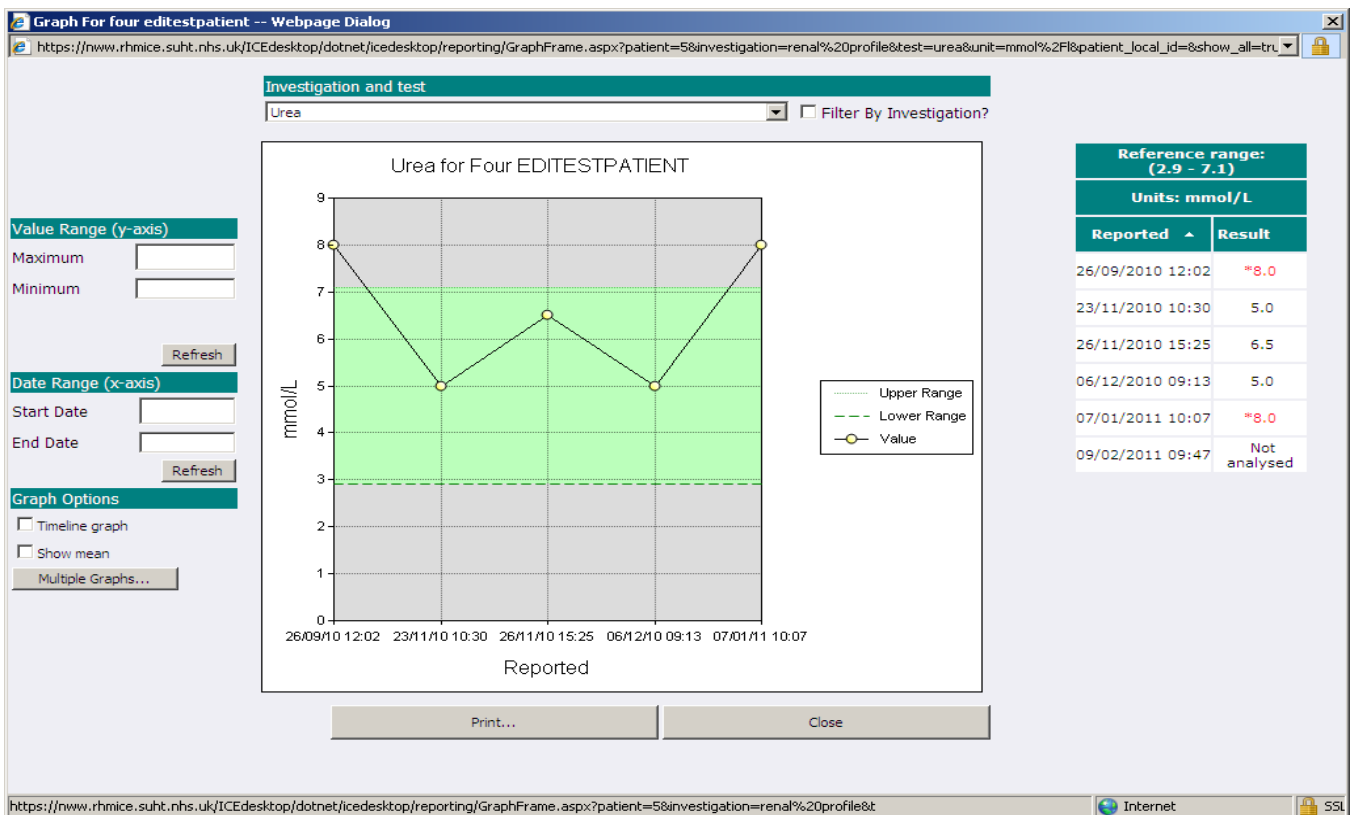
Reference range: (2.9 - 7.1) Units: mmol/L

| Report Date | Sample ID | Value | Range |
|-------------------|-----------|--------------|-------------|
| 26 Sep 2010 12:02 | D6226776X | *8.0 | (2.9 - 7.1) |
| 23 Nov 2010 10:30 | D2587579L | 5.0 | (2.9 - 7.1) |
| 26 Nov 2010 15:25 | D2587578D | 6.5 | (2.9 - 7.1) |
| 06 Dec 2010 09:13 | D6497531E | 5.0 | (2.9 - 7.1) |
| 07 Jan 2011 10:07 | D2587993A | *8.0 | (2.9 - 7.1) |
| 09 Feb 2011 09:47 | D2587997F | Not analysed | |

Graph Print Close

https://nwww.rhmice.suht.nhs.uk/ICEdesktop/dotnet/icedesktop/reporting/ Internet

Graphical display example:



Example of a results profile construction

Choose Tests -- Web Page Dialog

Bone profile
 Albumin [g/L]
 Albumin(OLD) [g/L]
 Alkaline Phosphatase [iu/L]
 Alkaline Phosphatase (OLD) [iu/L(37C)]
 Calcium [mmol/L]
 Calcium (adjusted) [mmol/L]

Coagulation Screen
 APTR
 Fibrinogen (Derived) [g/L]
 INR
 ESR [mm 1st h]

FULL BLOOD COUNT
 Basophils [10⁹/L]
 Eosinophils [10⁹/L]
 MCH [pg]
 MCHC [g/dL]
 MCV [fL]
 Monocytes [10⁹/L]
 PCV [L/L]
 PLT [10⁹/L]
 RBC [10¹²/L]
 Glucose [mmol/L]

Liver function tests
 ALT [iu/L(37C)]
 Bilirubin(OLD) [umol/L]
 Total protein [g/L]

Renal Profile
 Creatinine(OLD) [umol/L]

Thyroid function tests
 FT4 [pmol/L]
 TSH [mu/L]

Control Buttons:
 Add >
 Add Investigation >>
 Add All >>>
 < Remove
 << Remove Investigation
 <<< Remove All
 Save Profile...
 Load Profile...
 Cancel
 OK

FULL BLOOD COUNT
 Hb [g/L]
 Lymphocytes [10⁹/L]
 Neutrophils [10⁹/L]
 WBC [10⁹/L]

Renal Profile
 Creatinine [umol/L]
 ESTIMATED GFR [mL/min/1.73m²]
 Potassium [mmol/L]
 Sodium [mmol/L]
 Urea [mmol/L]

https://nww.rhmic.e.suht.nhs.uk/icedesktop/dotnet/icedesktop/reporting/ChooseTestsDialogFrame.aspx?shortcut=true&patient=3&us Internet

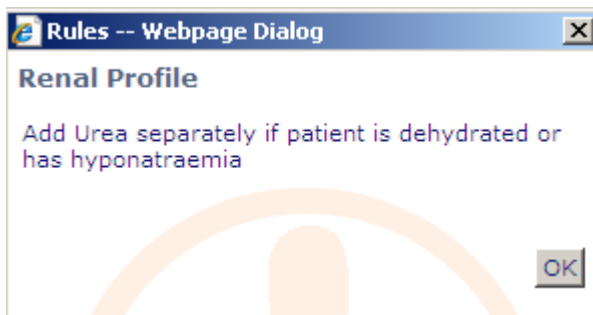
Demand Management

Background

The ICE manual is extended here to include developments implemented as part of a joint PCT/GP and Southampton Pathology QIPP (Quality, Innovation, Productivity and Prevention) clinical initiative. The ICE system was upgraded to most recent version as part of this work

Tests removed from set profiles

Urea removed from Renal Profile:



Tests not appropriate to request

For example, thyroid screening:

GPs who know patient is on Thyroxine for primary hypothyroidism should check the TSH only box, the following help text is displayed on ICE when user hovers over the TSH only item:

| | | |
|--|--|------------------------------|
| Price Unavailable | Select this for patients on Thyroxine for primary hypothyroidism | |
| CLINICAL BIOCHEMISTRY | | CLINICAL BIOCHEMISTRY |
| <input type="checkbox"/> Renal Profile → | <input type="checkbox"/> Vitamin B12 (Vit B12) | <input type="checkbox"/> |
| <input type="checkbox"/> Bone profile | <input type="checkbox"/> Folate | <input type="checkbox"/> |
| <input type="checkbox"/> Liver Profile-GP → | <input type="checkbox"/> Fasting glucose | <input type="checkbox"/> |
| <input type="checkbox"/> Non-Fasting Glucose → | | <input type="checkbox"/> |
| <input type="checkbox"/> HBA1C → | | <input type="checkbox"/> |
| Non Fasting Lipids | | Fasting lipids |
| <input type="checkbox"/> PSA | | <input type="checkbox"/> |
| <input type="checkbox"/> Thyroid Screening → | | <input type="checkbox"/> |
| <input type="checkbox"/> TSH only - For thyroxine monitoring | | <input type="checkbox"/> |
| <input type="checkbox"/> C-Reactive Protein | | <input type="checkbox"/> |

The thyroid screening item below consists of both FT4 and TSH

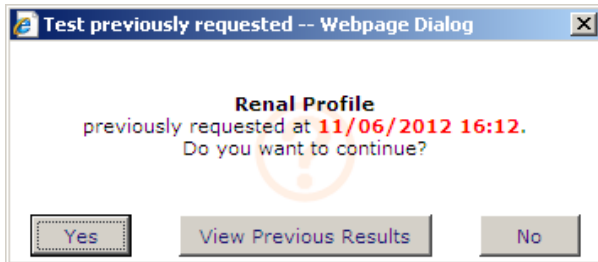
Note, when either item is selected the other item is not available for selection. Should an item be selected in error then uncheck the item and re-select

| | | |
|--|--|------------------------------|
| Price Unavailable | Consists of: FT4 and TSH | |
| CLINICAL BIOCHEMISTRY | | CLINICAL BIOCHEMISTRY |
| <input type="checkbox"/> Renal Profile → | <input type="checkbox"/> Vitamin B12 (Vit B12) | |
| <input type="checkbox"/> Bone profile | <input type="checkbox"/> Folate | |
| <input type="checkbox"/> Liver Profile-GP → | <input type="checkbox"/> Fasting glucose | |
| <input type="checkbox"/> Non-Fasting Glucose → | | |
| <input type="checkbox"/> HBA1C → | | |
| Non Fasting Lipids | | Fasting lipids |
| <input type="checkbox"/> PSA | | |
| <input checked="" type="checkbox"/> Thyroid Screening → | | |
| <input type="checkbox"/> TSH only - For thyroxine monitoring | | |
| <input type="checkbox"/> C-Reactive Protein | | |

Repeat requesting limits and display of previous results

These are investigations which are flagged with repeat requesting intervals. A defined repeat testing period, currently set at 6 months for Clinical Biochemistry tests is triggered should a new test request fall within these limits

If such a test is selected, which has previous results, the following screen would appear:



Response, No = test is not selected (unnecessary re-testing is avoided)

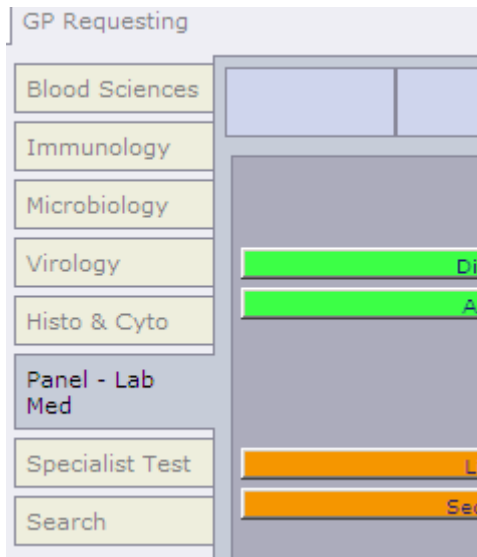
Response View previous Results = Results of the investigation or investigation set up to last 6 months old are shown:

| Test | Results | Unit | Range | Date |
|---------------|---------|---------------|-----------|---------------------|
| Sodium | 120 | mmol/L | 136 - 144 | 07/06/2012 15:32:00 |
| Potassium | 4.50 | mmol/L | 3.5 - 5.0 | 07/06/2012 15:32:00 |
| Creatinine | 250 | umol/L | | 07/06/2012 15:32:00 |
| ESTIMATED GFR | 15 | mL/min/1.73m2 | | 07/06/2012 15:32:00 |
| Sodium | 130 | mmol/L | 136 - 144 | 08/05/2012 10:37:00 |
| Potassium | 4.00 | mmol/L | 3.5 - 5.0 | 08/05/2012 10:37:00 |
| Urea | 3.0 | mmol/L | 2.9 - 7.1 | 08/05/2012 10:37:00 |
| Creatinine | 50 | umol/L | | 08/05/2012 10:37:00 |
| ESTIMATED GFR | >90 | mL/min/1.73m2 | | 08/05/2012 10:37:00 |
| Urea | 1.0 | mmol/L | 2.9 - 7.1 | 23/04/2012 16:18:00 |
| Creatinine | 1 | umol/L | | 23/04/2012 16:18:00 |
| ESTIMATED GFR | >90 | mL/min/1.73m2 | | 23/04/2012 16:18:00 |
| Sodium | 140 | mmol/L | 136 - 144 | 19/04/2012 11:50:00 |
| Potassium | 4.00 | mmol/L | 3.5 - 5.0 | 19/04/2012 11:50:00 |
| Urea | 4.0 | mmol/L | 2.9 - 7.1 | 19/04/2012 11:50:00 |
| Creatinine | 50 | umol/L | | 19/04/2012 11:50:00 |
| ESTIMATED GFR | >90 | mL/min/1.73m2 | | 19/04/2012 11:50:00 |

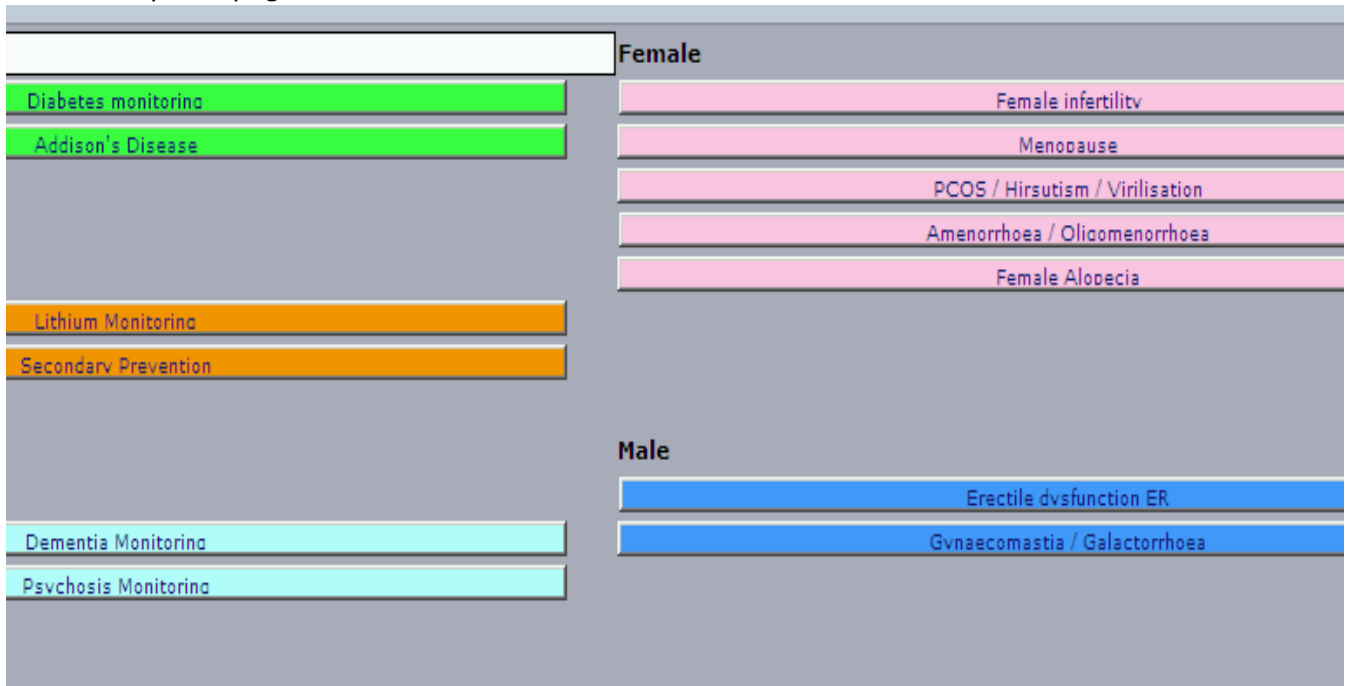
Clinical collection panels

These are groups of tests related to agreed clinical investigation sets, the user can be guided through these with rules and dialogue boxes where appropriate

There is a panel called 'Panel – Lab Med' (Laboratory Medicine)

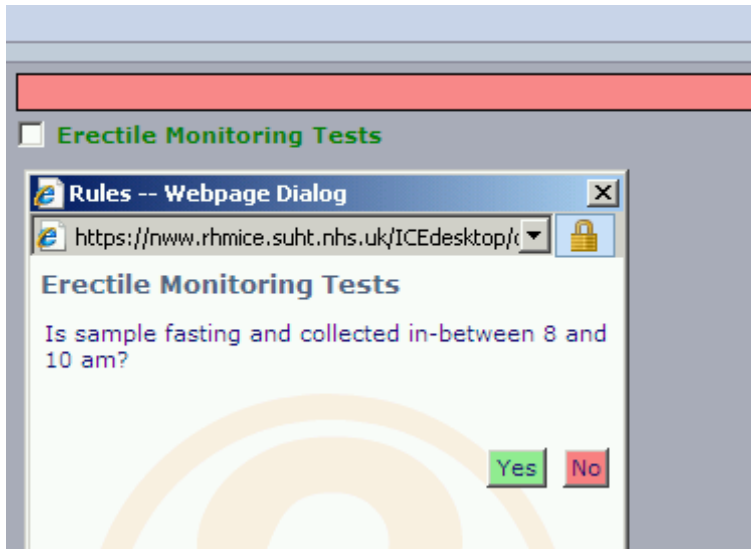


Within the panel page there are sets of collections of tests:



Example: Erectile dysfunction panel

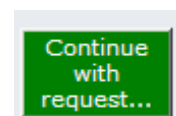
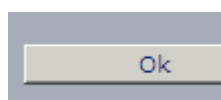
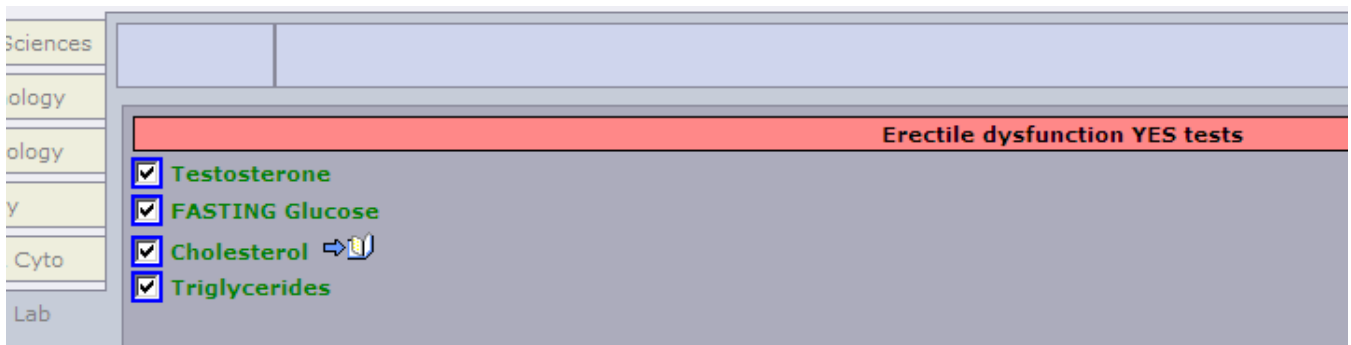
Click the collection set [Erectile dysfunction](#) then follow the information and the prompts:



Set the fasting status flag – this flag is then sent back to GP clinical systems via pathology PMIP electronic reporting



The appropriate collection of tests is confirmed as selected:



Click OK to select these and proceed as per normal

Example: Female Infertility panel

There is requirement for 2 separate sample sets to be taken from the patient

Female Infertility sample set 1

LH, FSH, Testosterone

Pop up - Sample should be collected between Days 2 to 4 of the Cycle. Add TFTs and Prolactin if patient is symptomatic of thyroid disease or hypopituitarism (NICE).

Female Infertility sample set 2

Progesterone

Pop up - Sample should be taken on Day 21 of a 28 Day cycle or mid luteal.

This will generate 2 request forms. One sample will be collected on Days 2 - 4 and the second on Day 21 or mid luteal.

Implementation:

The implementation generates two request forms which record and print the anticipated dates entered by ICE user. **The dates of sampling print in the SAMPLE STATUS box of the respective form (note – not in the actual sample date and time boxes – these still need entering when sample is collected)**

Guidance when using:

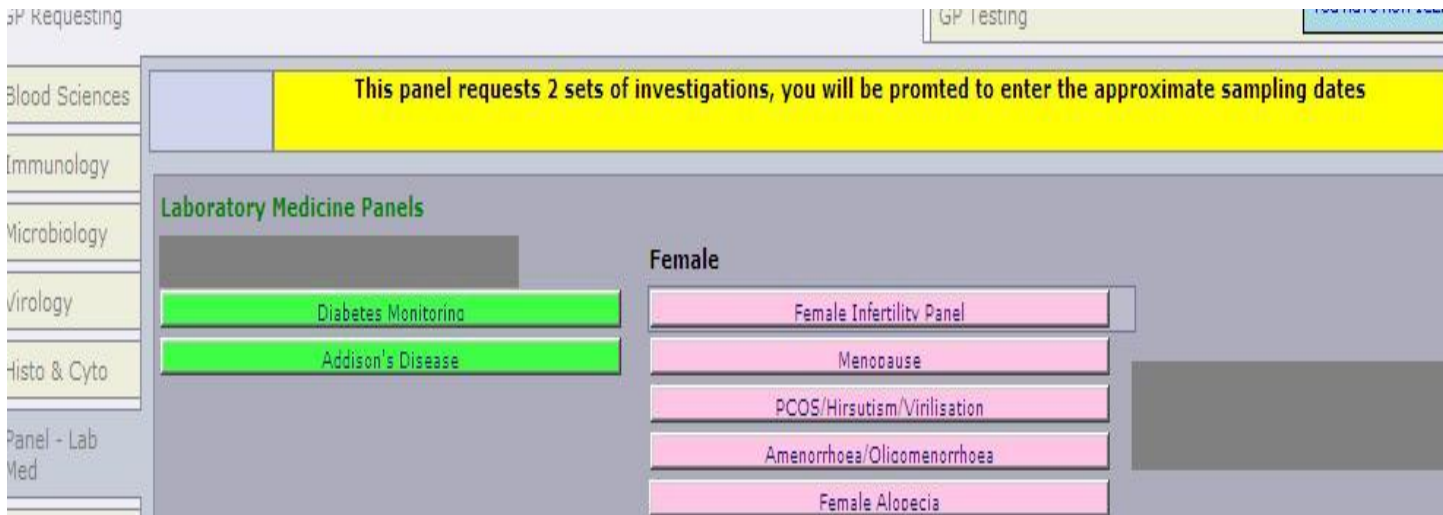
If the samples are both to be taken days in the future then 'Unspecified date and time' should be selected, or if postponing within the ICE system the 'I wish to collect the sample later' option.

If the patient's cycle is not predicable then users are advised to select the best approximate dates

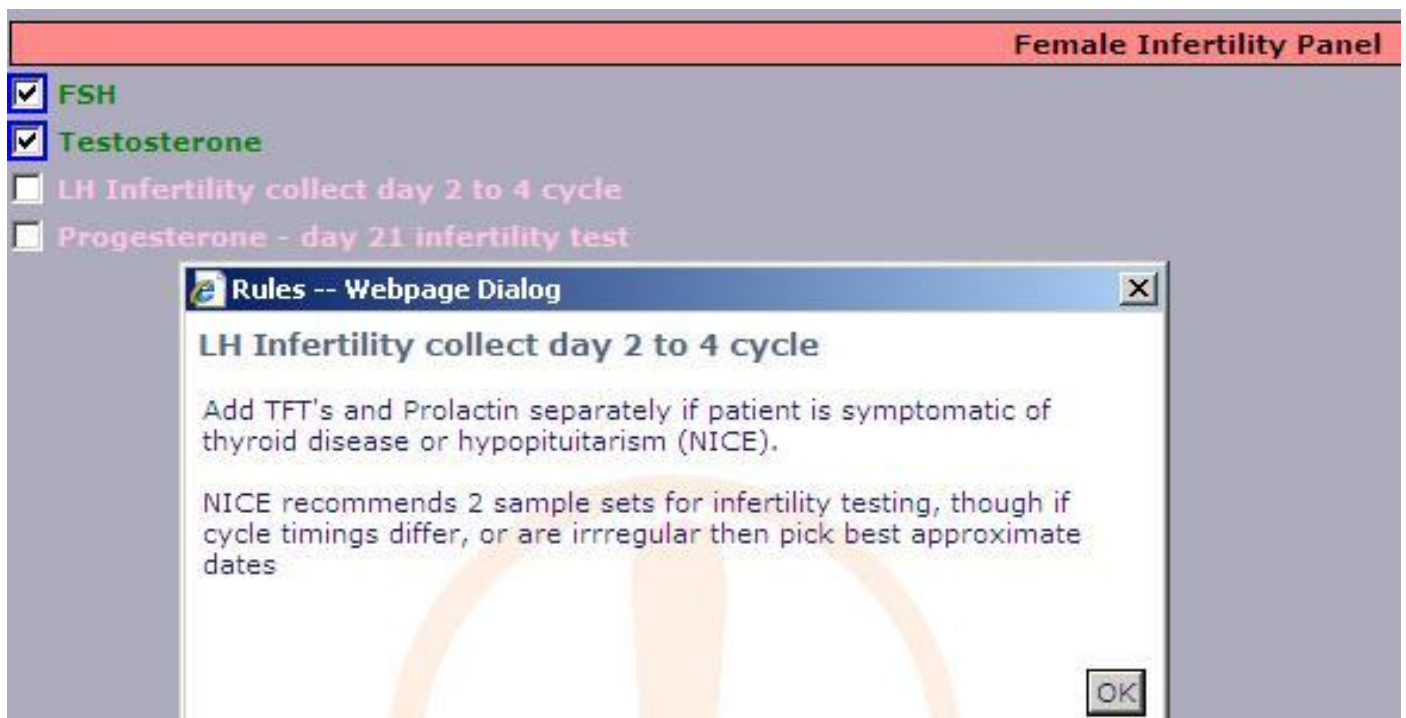
If one sample needs to be taken now then select the collect now for the appropriate sample date when committing the request on ICE. Also note the global clinical details will apply to both forms, so an entry including "Samples generated for infertility testing" may be appropriate along with any other essential clinical information

Female infertility panel:

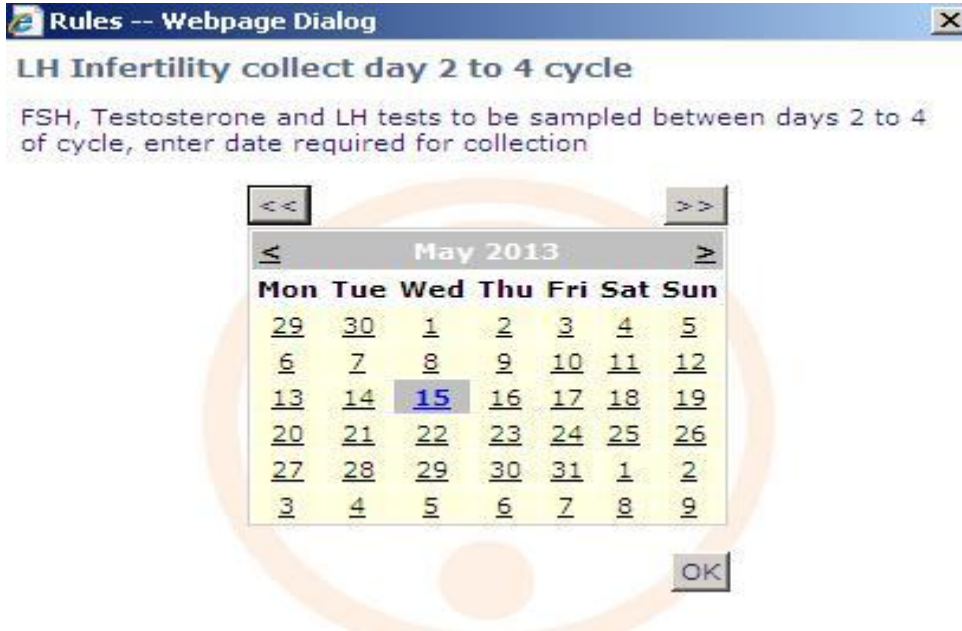
Located on Panel, note the black on yellow help text when mouse is hovered over the panel:




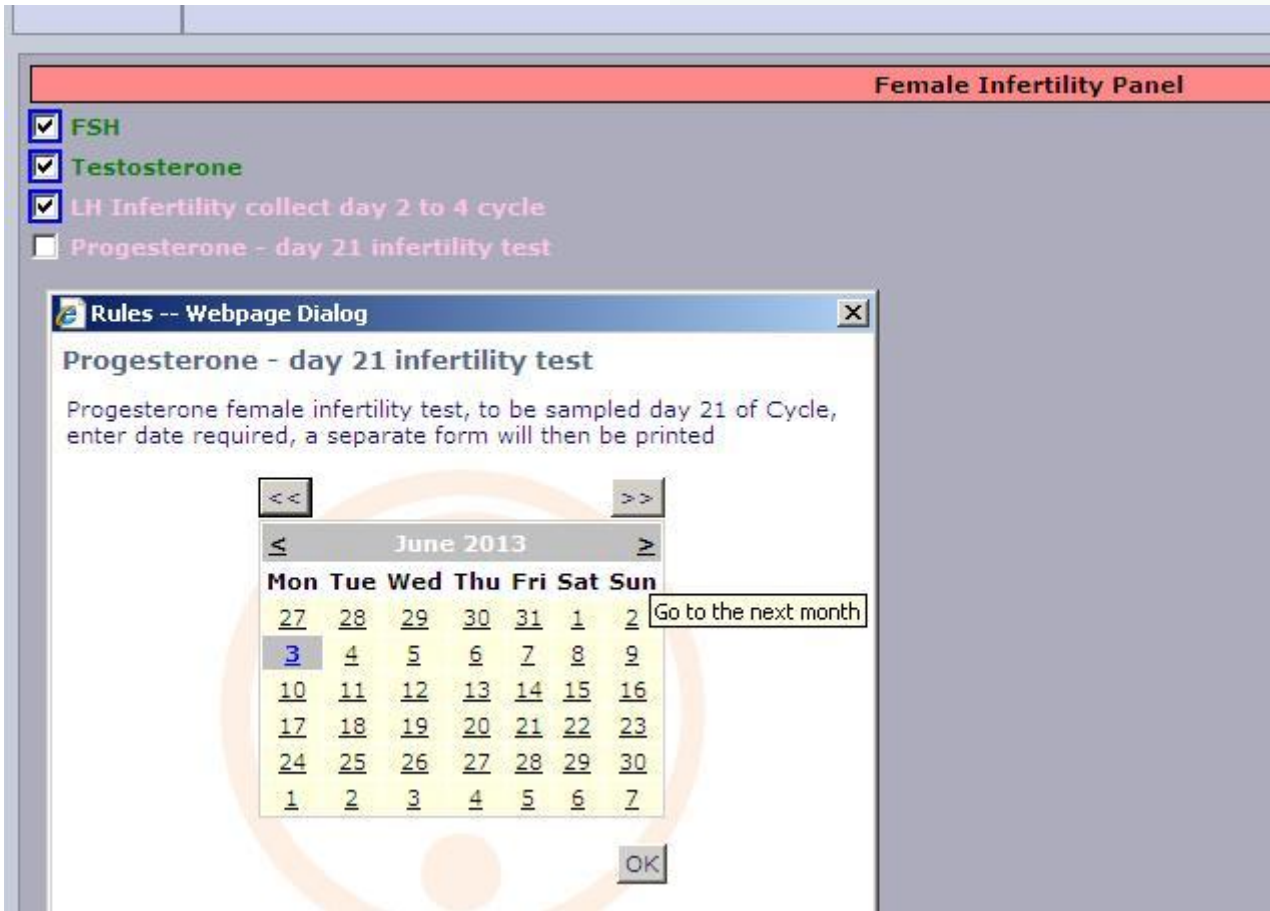
On selecting the Female Infertility Panel, the tests FSH and Testosterone are automatically selected, there is then a prompt with a clinical guidance note followed by sample date guidance; click OK to continue:



The Luteinising Hormone test (LH) test now holds and asks for the sampling date to be entered for FSH, Testosterone and LH test set, 15th May is entered in example below, then click OK:



Test LH is now requested, the Progesterone day 21 sampling now asks for the appropriate date to be added, in this example the LH is sampled before the progesterone, this will not always be the case 17-19 days in advance to the LH sampling is Mon 3rd June, note the  next month icon:



The request is now completed and submitted for completion
 In this example both specimens are to be sampled dates in advance; hence
 'Unspecified date and time' is selected against both Chemical Pathology and Laboratory medicine form

General Details:

User: **burrik**

Bleep / Contact No:

Requesting Consultant / GP:

Requesting Consultant / GP: **VIRTUALONE, Dr** ▼ ...

Location: **TESTING** ▼ ...

Global Clinical Details:

Infertility tests required, bloods to be taken at dates specified on respective forms

Category: **GP patient** ▼

Order Details:

↑ **Chemical Pathology**

Tests in this order: Progesterone - day 21 infertility test

I wish to collect the sample(s) later:

Priority: **Routine** ▼

Sample collection options:

- Collect now
- Unspecified date and time

↑ **Laboratory Medicine**

Tests in this order: LH Infertility collect day 2 to 4 cycle, FSH, Testosterone

I wish to collect the sample(s) later:

Priority: **Routine** ▼

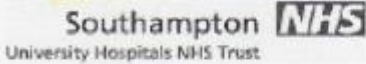

Sample collection options:

- Collect now
- Unspecified date and time

The request forms are then printed:

Example request form showing a sample status date for patient of 3rd June for Progesterone day 21

The dates of sampling print in the **SAMPLE STATUS** box of the respective form (note – not in the actual sample date and time boxes – these still need entering when sample is collected, that is unless ‘sample now’ is selected)

| | | | | | |
|---|------------|---|--|---|----------------------|
| GP CODE, NAME Dr VIRTUALONE () | | SURGERY CODE, NAME TESTING () | | NHS NO 9999999638 | |
| COPY TO () - () | | PATIENT CATEGORY GP patient | | SURNAME EDITESTPATIENT | |
| DATE TAKEN | TIME TAKEN | TAKEN BY | | FORENAME Sixteen | SEX Female |
|  | | | | DATE OF BIRTH 01 Dec 1956 | ETHNIC ORIGIN |
| | | | | ADDRESS Pathology SGH, | |
| | | | | POSTCODE SO16 6YD | |
| | | | | PATIENTS TELEPHONE NUMBER | |
| | | | | CLINICAL DETAILS testing | |
| | | | | SAMPLE STATUS (=03 Jun 2013) | DRUG INFORMATION |
| | | | | REQUESTING M.O. NAME Dr VIRTUALONE | BLEEP/TEL No. |
| Order No | | Tube / Container | | Investigations Requested | |
|  10002857 | | SST II Advance | | Progesterone - day 21 infertility test | |

Contacts

ICE information:

<http://www.uhs.nhs.uk/HealthProfessionals/Extranet/Services/SUHTPathologyServices/Electronicrequesting.aspx>

Demand Management Clinical Leads:

Clinical Biochemistry: Emmanuel.Abu@uhs.nhs.uk

Haematology: Matthew.Jenner@uhs.nhs.uk

Immunology: Efrem.Eren@uhs.nhs.uk

ICE Support

gplinks@uhs.nhs.uk

Tel: 023 8079 4355 / 6705