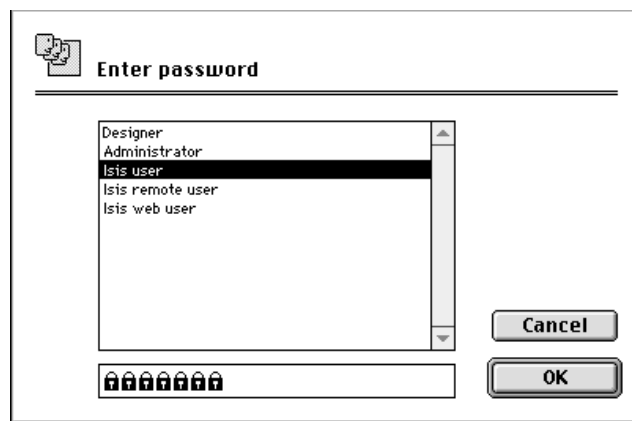


System log-on

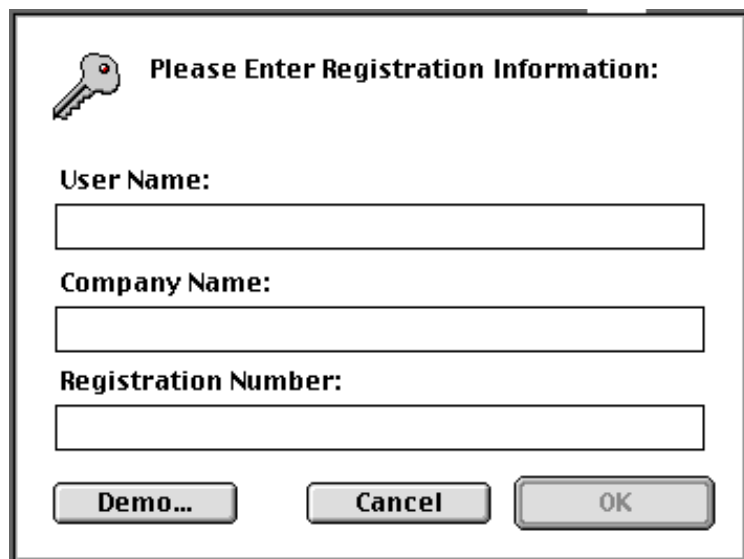
Isis uses a two stage log on system in order to provide a high level of system security and detailed audit trails.

The first password dialogue determines the type of access permitted to the system and allows one of five connection types. The first three types are different access levels for local users of the Isis system, most connections will be as 'Isis user'. The remaining two connection types control remote access to the database either using the custom Isis remote application or using a standard web browser over an intranet/internet.



1. Select 'Isis user' and type in the user password.

If you are using an un-registered copy of Isis, for example the evaluation version, a product registration dialogue will then be presented.

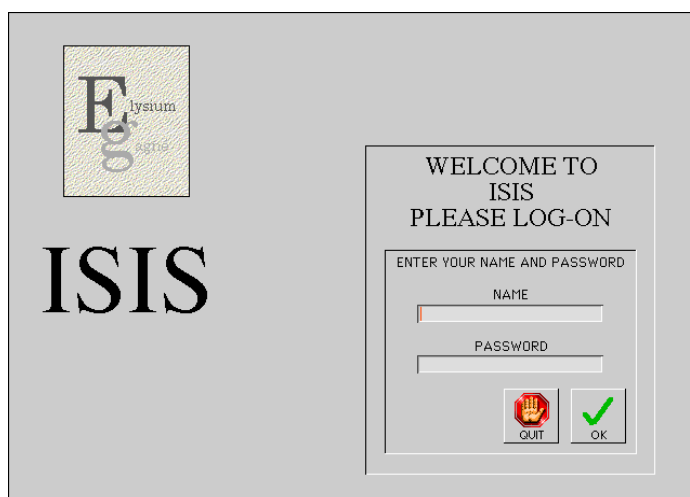


To use the product in demonstration mode click on the 'Demo' button. This dialogue will appear on every start and to convert the evaluation version to a fully functional Isis database purchase a registration number from Elysium and enter the appropriate fields.



In demonstration mode the database is limited to fifty subject records with a choice of running as either a human or veterinary laboratory system. Isis also supports 'production' laboratories (those testing materials, foods, water etc.) but the supplied datafile currently does not allow this in demonstration mode. Once fifty subject records have been added the user will be prompted either to delete all the records and continue using Isis or of quitting the demonstration.

The second password dialogue logs a particular user into the system and determines their access privileges and initiates the audit trails.



2. Type in your user name and password to gain access to the Isis database.

[illegible]

When your password has been accepted you will be presented with this screen, from here you can launch the 'Message Centre' to read, print or send messages to other users and to E-mail.

You will also be able to change your password at this point.

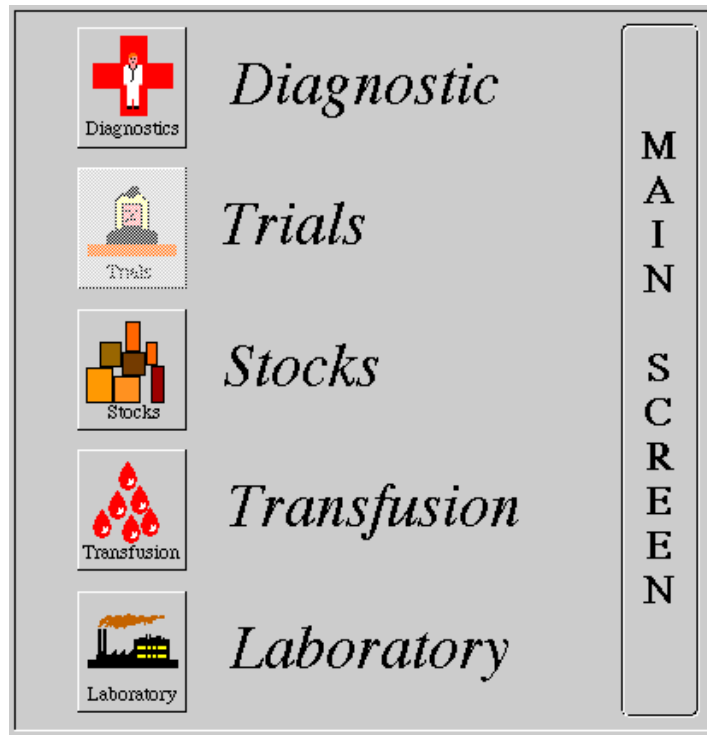
Path: Start-up screen

When Isis starts up it will load all the procedures and variables into the memory of the client computer and then present the user with the password entry screen shown above. Each user of the system will have a unique user name, normally their forename and a unique password. To access the Isis database you must first type in your user name and then tab to the password field and enter the password, then, using the mouse, click on the 'OK' button or 'Enter' key. If you have typed these details correctly you will progress to the main Isis screen, if not, a dialogue box will pop-up informing you that 'an unknown user or password was entered' and offer you the opportunity to try again.

The user and password information is linked to the staff member in the management set-up section of the computer. Your system administrator has the ability to allocate a unique set of access rights to each member of staff, allowing them or denying them access to each area and function of the Isis database. When you log-on, these access privileges are loaded and the user is then able to view or modify only those sections of Isis that their access rights allow.

For added security, Isis will force all users to change their password on a regular basis, usually every three months. Used passwords will then become excluded and cannot be re-used in the future.

Main Screen

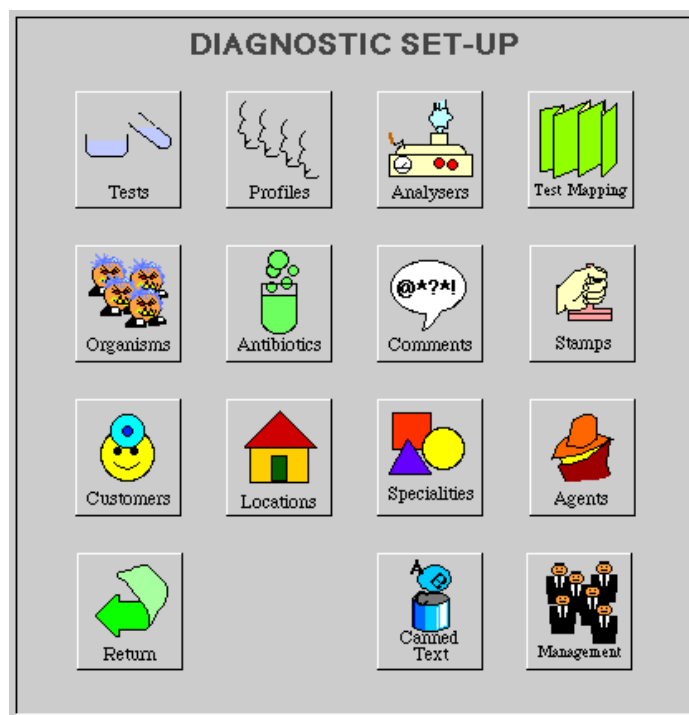


The Main Screen is the gateway to Isis.

Operationally, Isis is divided into five modules:-

1. Diagnostic Day to day management of a routine, multiñdisciplinary laboratory.
2. Trials For laboratories conducting pathology for clinical trials.
3. Stocks Management of stocks and consumables within the laboratory.
4. Transfusion A specialised module for the handling of blood grouping and transfusion.
5. Laboratory Concerned with the entry, validation and printing of results.

Set-up Diagnostics



Path: Main screen > Diagnostic > Set-up

Diagnostic set-up is where all the unique parameters of an individual laboratory's requirements are defined. Each button on the Set-up screen launches a list pertaining to the description on that button. These lists can be viewed or printed for information purposes or details can be amended as required.






Some of the processes that require setting-up are interrelated e.g. 'Customers, Locations, and Specialities' or 'Organisms and Antibiotics' and of course 'Test, Profiles and Analysers'. It will save a lot of time if these files are set-up in a logical order. The suggested order is as follows :-

Locations, Specialities, Customers, Agents, Antibiotics, Organisms, Tests, and Profiles. The other files are independent of each other and of other files and can therefore be set-up as and when you wish. All files can be edited at any time after the initial set-up. Test Mapping is a special file that sets various protocols that are hard coded within Isis.

The Management button launches another set-up menu, 'Management Set-up', which allows the definition of all the management and user functions of the database.

Set-up Tests

284 selected Tests of 284 Tests			TEST LIST	
Test Code	Test Name	Section		
2 cort	1/2 hr. Cortisol	Biochemistry		
UVOL	24 hour Urine Volume	Biochemistry		
UVOLml	24hr Urine Volume (ml)	Biochemistry		
5 HIAA	5 HIAA	Biochemistry		
UPH	A.Urine pH	Bacteriology		
URBC	A.Urine RBC	Bacteriology		
APTT	Act PTT Ratio	Haematology		
ADENO	Adenovirus	Virology		
ALT	Alanine Aminotransferase	Biochemistry		
ALB	Albumin	Biochemistry		
ALP	Alkaline Phosphatase	Biochemistry		
ALPHOISO	Alkaline Phosphatase Isoenzymes	Biochemistry		
A IAT	Alpha-1-Antitrypsin	Biochemistry		
AFP	Alphafetoprotein	Biochemistry		
APHO	Amiodarone	Biochemistry		
ANDRO	Androstenedione	Biochemistry		
ACE	Angiotensin Converting Enzyme	Biochemistry		
ANCA	Anti Neutrophil Cytoplasm Antibody	Biochemistry		
ANTIN	Anti nuclease	Bacteriology		
ANTIST	Anti Staph titres	Bacteriology		

TEST RECORD									
Test ALB		Short name		Expected sample		Serum			
Test name Albumin						Unit/lge g/L			
Reported as Albumin						Report precision		0 Sig figs	
Reported Reference Ranges									
Low		High		Reported as		Test ref range		Lovreport High report	
Male	32	55	32-55						
Female	32	55	32-55						
Child	32	55	32-55						
Test method CTS				<input checked="" type="checkbox"/> In house test					
Agent				<input checked="" type="checkbox"/>					
Section Biochemistry				<input checked="" type="checkbox"/>					
Expected turnaround(Hours)				3 hours 0 minute					
Report group				0					
<input checked="" type="checkbox"/> Tested by analyst? <input type="checkbox"/> Available only in profile? <input type="checkbox"/> Don't print Numeric/Short test Custom form test position 0				Affixing File sors <input type="checkbox"/> Old Sample <input type="checkbox"/> Haemolysis <input type="checkbox"/> Lipemia <input type="checkbox"/> Icterus				Financial MedicoCode LM0218 Test Cost £0.00 Standard charge £7.90 Standard price £7.90 Workload 0	
Comments				Other Reflex tests				S.O.P.	
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>								<input checked="" type="checkbox"/> Check box if test offered no	

TEST CALCULATION

Test Name	Corrected Calcium	Applies	Age from	
Tests <div style="border: 1px solid black; padding: 5px;"> Available tests 1/2 hr. Cortisol 24 hour Urine Volume 24hr Urine Volume (ml) 5 HIAA Act PTT Ratio Adenovirus Alanine Aminotransferase Albumin Alkaline Phosphatase Alkaline Phosphatase Isoenzyme Alpha-1-Antitrypsin Alphafetoprotein Amiodorone Androstenedione Angiotensin Converting Enzyme Anti Neutrophil Cytoplasm Anti Anti nuclease Anti Staph titres </div>	Variables <div style="border: 1px solid black; padding: 5px;"> Serum Calcium - (- 0.025 * Albumin) + 1 </div>	Calculation <div style="border: 1px solid black; padding: 5px;"> Try it - (- 0.025 * +) 1 </div>	Age from <input type="text" value="0"/> Age To <input type="text" value="0"/>	Operators <div style="border: 1px solid black; padding: 5px;"> + Add - Subtract / Divide * Multiply ^ Power Of () = </div> Constants <input type="text" value="0"/> +
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> Clear Test </div>			Result <input type="text" value="0.00"/>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> ✖ CANCEL </div> <div style="text-align: center;"> ✔ OK </div> </div>

Path:- Main screen > Diagnostic > Set-up > Tests

The definition of tests performed either within the laboratory or referred to other laboratories or 'Agents' is set-up in this screen. The test definition file in Isis holds all the information associated with each test e.g. test report name, unitage, test charge etc. Initially all this information needs to be entered into the database although a certain amount of the test definition can be imported from an existing system directly into Isis provided that the information is in a recognisable format and appropriate fields exist into which the information can be imported.

Test definition is a major file in Isis and it links together many other files, for example result entry, profiles, sections, agents, validation and printing.

Set-up Profiles

36 selected Profiles of 36 Profiles **PROFILE LIST**

Profile Name	Sorting Order
Anti Staph	28
Arterial Blood Gases	6
Autoimmune profile	16
Avian Precipitins	30
Biochemistry Health Screen	9
Blood Culture	21
Blood Group Prof.	19
Bone Profile	10
Cardiac Enzymes	3
Cardiolipin Profile	18
Crest Clear	31
ENA Autoantibody Profile	17
Faeces Tropical screen	26
Full Blood Count	4
Glucose Tolerance Test	14
Group & XMatch	21
Haematology Health Screen	11
Hep B markers	29
Lipid Profile	5

PROFILE RECORD

Profile Name:
 Position:

Medex Code:
 Section:

Tests Cost:
 Tests Charge:
 Workload:

This Profile Charge:
 Notes:

Discount:
 Profit:

Include on rate card: ☐ No ☒ Yes

Profile Builder

Available Tests

Available Tests	Cha
1/2 hr. Cortisol	
24 hour Urine Volume	
24hr Urine Volume (mL)	
S HIAA	
A.Urine pH	
A.Urine RBC	
Act PTT Ratio	
Adenovirus	
Alanine Aminotransferase	
Albumin	

Profile

Tests in Profile
Haemoglobin
White Cell Count
Platelet Count
Mean Cell Volume
Haematocrit
RDW
Red Cell Count
Mean Cell Haemoglobin
Granulocytes
Lymphocytes
Monocytes

Drag items from one list to the other

Path: Main screen > Diagnostic > Set-up > Profiles

Setting up and assigning tests to user defined profiles is simple in Isis. All that is required is to select the test you want in the profile, from the list of available tests on the left and drag then into the profile builder window on the right. The newly defined profile is then available for selection at request entry immediately. Profiles names are defined by the user and can be whatever is most useful to the individual laboratory. Profiles can be modified, viewed or deleted at any time.

Set-up Analysers

The image shows two screenshots of a software interface for setting up analysers.

The top screenshot is the **ANALYSER RECORD** window. It contains the following fields:

- Analyser Name:** Beckman CX5
- Manufacturer:** Beckman
- Button name:** Beckman CX5 (with a **Comm Setup** button next to it)
- Comm stack size(Kb):** 0
- Parse stack size(Kb):** 0
- Parse delay(Seconds):** 0
- General Notes:** A text area for notes.

Below these fields is the **Analyser Builder** section, which consists of two lists:

- Available Tests:**
 - 1/2 hr. Cortisol
 - 24 hr Urine Volume
 - 24hr Urine Volume (ml)
 - 5 HIAA
 - A.Urine pH
 - A.Urine RBC
 - Act PTT Ratio
 - Adenovirus
 - Alkaline Phosphatase isoenzymes
 - Alpha-1-Antitrypsin
 - Alphafetoprotein
- Tests in Analyser:**

Tests in Analyser	Code	Channel
Alanine Aminotransferase	31 A	
Albumin	08 A	
Alkaline Phosphatase	35 A	
Aspartate Aminotransferase	30 A	
C Reactive Protein	09 A	
Creatinine Kinase	32 A	
CSF Glucose	06 A	
Gamma Glutamyl Transpeptidase	36 A	
Glucose (2hrs)	06 A	
Glucose (Fasting)	06 A	

Arrows indicate that items can be dragged from one list to the other. At the bottom of the window are icons for deleting, moving, and saving.

The bottom screenshot is the **Com Parameters** window, which contains the following settings:

- Port:** Modem Port
- Speed:** 9600 Bauds
- Proto:** None
- Data:** 8 Bits
- Stop:** 1 Bit
- Parity:** None

Buttons for **Cancel** and **Save** are at the bottom.

Path:- Main screen > Diagnostic > Set-up > Analysers

Interfacing of Isis with your multi-channel diagnostic analysers will be done by Elysium Gagné so it is not proposed to detail the set-up of those analysers in this manual.

Advanced set-up and troubleshooting will be dealt with in later chapters.

Set-up Test Mapping

TEST MAPPING

Bacteriology

Show quantities on report as:-

	Chemistry	Bacterial growth	Urine growth	Microscopy
Nil	Nil			Nil
+/-		+/-		+/-
+	+	+	Light growth	+
++	++	++	Heavy growth	++
+++	+++	+++		+++

Antibiotics sets attached to sample

Sample type: **Throat Swab**

Available antibiotics:

- Amikacin
- Ampicillin
- Cefuroxime
- Cephalexin
- Chloramphenicol
- Ciprofloxacin

Selected antibiotics:

Haematology

CANCEL **OK**

TEST MAPPING

Available tests:

- Ethanol - Urine
- Ethanol - Serum
- FFP_{x2}
- FFP_{x3}
- FFP_{x4}
- Film Report
- Folate - RBC
- Folate - Serum
- Free Thyroxine Index
- FT 4
- GGT
- GLUF - Fluor
- GLUF
- GLUR - Fluor
- GLUR
- Hb A1C
- Hb H/S
- Hb S quant
- HDL Cholesterol
- Hep A Igt*

Definition	Test Main	Test Derived
Lymphocytes	Lym %	Lymphocytes'
Neutrophils Segmented	Neut %	Neutrophils'
Neutrophils Band		
Blasts Cells	Blast %	Blasts'
Other		
Age	Age	
Weight	Weight	
WBC	WBC	
Haemoglobin	Hb	Hb [mmol/L]
RBC	RBC	
PCV	HCT	HCT' [%]
MCV	MCV	
MCH	MCH	
MCHC	MCHC	
RDW	RDW	
MPV		
Platelets	Platelets	
ESR	ESR	
Film		

CANCEL **OK**

Path: Main screen > Diagnostic > Set-up > Test mapping

Certain tests and comments in Bacteriology and Haematology have to be mapped to tests that are hard coded in the Isis program language. This is to allow users to call tests whatever they wish or to assign specific antibiotics to different user defined sample types.

Antibiotics assigned to specific sample types will over-ride antibiotics assigned to an organism (See Set-up Organisms).

Set-up Organisms

ORGANISM ENTRY

Organism code: Print style:

Organism report name:

Comments:

Report comment? ☒ Yes ☐ No
 Negative report? ☐ Yes ☒ No

Entered: Last modified:

Available Antibiotics

Code	Antibiotic
AK	Amikacin
AMP	Ampicillin
C	Chloramphenicol
CIP	Ciprofloxacin
CL	Cephalexin
ETH	Ethambutol
F	Nitrofurantoin
INAH	INAH
MTZ	Metronidazole
NAL	Naladixic Acid

Drag items
from one list
to the other

Antibiotics to test

Code	Antibiotic
P	Penicillin
E	Erythromycin
MET	Flucloxacillin
CXM	Cefuroxime
FD	Fusidic Acid
CN	Gentamicin

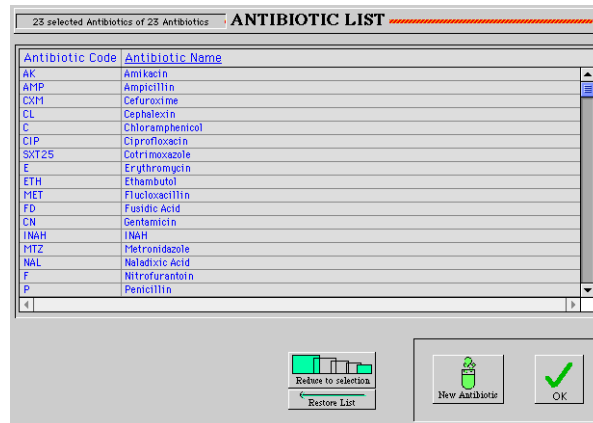
Path: Main screen > Diagnostic > Set-up > Organisms

Prior to defining organisms for reporting in bacteriology it is advisable to define all the antibiotics that will be required. Then, when an organism is entered, the specific antibiotics that you require to report against that organism will automatically be displayed.

Results that are associated with the culture of Bacteriology specimens but are not particular organisms e.g. 'Normal respiratory flora' or 'No Significant Growth' etc. are also defined in this screen. These are termed 'negative reports'. When you define a 'negative report' you must also click on the 'Yes' button beneath the print style pop-up.

Click 'yes' for 'report comment?' if you require the comments to be printed on the final report.

Set-up Antibiotics



To review or amend a current antibiotic, locate it in the List and double click on the entry to launch the Antibiotic entry Screen. To add a new antibiotic, click the 'Add Antibiotic' button.

Antibiotic code: CIP

Antibiotic report name: Ciprofloxacin

Supplier:

Comments: Broad spectrum anti pseudomonal antibiotic. Effective against both Gram Pos and Gram Neg orgs. Recommended in the treatment of GC and Meningitis.

Entered: 10/6/96

Last modified: 5/5/98

Enter the Antibiotic code and reported name for the selected antibiotic. NB. codes are not seen in the routine use of Isis but can be a useful aid in the management reports.

Path: Main screen > Diagnostic > Set-up > Antibiotics

Antibiotics should be set-up before 'Organisms' and 'Sample Types' (See Test Mapping).

Although not illustrated here, it is advisable to use the universally recognised codes for your antibiotics when setting them up. These codes are not printed on final reports, or used in Isis for producing Bacteriology results, but they are useful for administrative purposes when using the statistical or reporting features of Isis to produce reports or Cross-infection statistics.

Set-up Comments

79 selected Comments of 79 Comments **COMMENT LIST**

Comment Code	Short Comment	Section	Order
QSIG	? Clinical significance	Bacteriology	74
AFBNS	Acid Fast Bacilli NOT seen	Bacteriology Micro	53
AFB	ACID FAST BACILLI SEEN	Bacteriology Micro	54
ABS	Antibacterial substances DETECTED	Bacteriology	62
ABSN	Antibacterial substances NOT detected	Bacteriology	80
BS	Blood stained	Bacteriology Macro	0
BSC	Blood stained with clot - cell count not possible	Bacteriology Macro	0
CDIFF	C. difficile toxin report to follow.	Bacteriology	73
CCF	Clear Colourless Fluid	Bacteriology Macro	0
ECRF	Enrichment culture report to follow	Bacteriology	51
ENR	Enrichment culture report:-	Bacteriology	71
FeD	Film consistent with Iron deficiency	Haematology Film	65
FH	Formed hard	Bacteriology Macro	0
FS	Formed soft	Bacteriology Macro	0
FMNS	Fungal mycelium NOT seen	Bacteriology Micro	61
fms	FUNGAL MYCELIUM SEEN	Bacteriology Micro	62
GNB	Gram Negative Bacilli seen	Bacteriology Micro	0

COMMENT ENTRY

Comment code:

Short comment:

Comment:

Where available:

Entered:

Last modified:

Path: Main screen > Diagnostic > Set-up > Comments








'Comments' are an aid to manual result entry. Free text comments can be added to a result at any time in the appropriate worklist, but if a comment is used frequently and applied to many results or requests, for example 'Insufficient specimen, suggest repeat', this can be added to your list of predefined comments and assigned to the relevant laboratory section. Predefined comments can also be assigned to 'All' the available sections, if that comment is appropriate for more than one section.

To apply a comment to a result or a request, see 'Manual Result Entry'.

Set-up Report Stamps

[illegible]

STAMP ENTRY	
Stamp result	<input type="text" value="Broken"/>
Stamp comment	<input style="width: 100%;" type="text" value="Specimen broken in transit"/>
Entered	<input type="text" value="18/7/96"/>
Last modified	<input type="text" value="00/00/00"/>

Path: Main screen > Diagnostic > Set-up > Stamps

'Stamps' are predefined, short text (30 characters, in the result) or numeric results, which may or may not have comments attached to them. They are used in the same manner as comments but comments can only be applied to one result at a time whereas 'Stamps' can be applied to any or all the results on one worklist at the same time. This is an ideal and easy way of applying the same result to a number of tests very quickly. For example, you may do a large batch of serological tests of which 90% of the results are 'Negative', if you define a stamp of 'Negative' this can be applied to all the appropriate results by selecting those on your worklist, reducing the list to that selection and applying the relevant stamp.

Set-up Customer List

[illegible]

Path: Main screen > Diagnostic > Set-up > Customers

The list of customers can be used by the laboratory manager as a contact database. A selection of customers can be made from the list and by clicking the 'Print' button, all the relevant information about the selected customers will be printed.

See Set-up Customer for more information on the entry and importance of customers in the Isis database.

Set-up Customer

All the details on your customers are entered here. You can define report type, rate card, method of billing, etc, for each different customer as necessary.

Path:- Main screen > Diagnostic > Set-up > Customers

Customers are defined as the doctors, consultants, practice managers and nurses who send work into the laboratory and to whom the final reports are addressed. Isis is a customer oriented database: the request is linked to the customer and this link controls the type of report that is generated, the unique rate card for financial billing, the way in which the bills are formulated and the address to which reports are sent.

For this reason it is suggested that locations, specialities and report formats are entered before setting up your customer list. If a location does not exist for a customer it is possible to add one without exiting the customer set-up program. Similarly, locations can be deleted for a particular customer at this stage by clicking the delete button.

Set-up Locations

[illegible]

LOCATION RECORD

Location Name

Elysium Station

Address

Elysium Station
30 The Drive
Cranleigh
Surrey

Post Code

GU6 7LZ

Main contact

David Baldwin

Telephone 1

+44 (0)1483 272140

Telephone 2

Fax

+44 (0)1483 272141

General Notes

Multi lingual, multi talented, purveyors of the finest marmalade!

Medex code

Customers

Baldwin, David (Mr)

Navigation icons

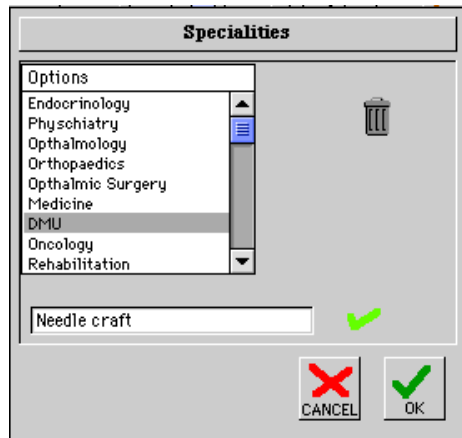
Path: Main screen > Diagnostic > Set-up > Locations

Locations are linked to customers (See Customer Set-up) and should be set-up before the customers are added.

To add or modify a location, tab through the appropriate fields in the screen above and type in any additions or alterations.

Customers, when linked to a location, will automatically be displayed in the list on the right of the screen.

Set-up Specialities



To add a speciality, type into the window and click the green v
To remove a speciality, drag it from the list to the wastebasket icon.

Path: Main screen > Diagnostic > Set-up > Specialities

Specialities are the fields into which customers can be grouped depending on their major clinical role. This information can be used for clinical audit purposes, in cross infection reports, or for many other information gathering reports that may be required by the laboratory, the hospital, or the trust at large.

To add a speciality type the required description into the single item field then click the green tick next to that field to save the new record.

To delete a speciality, drag the required entry from the list onto the wastebasket icon.

Set-up Agents

[illegible]

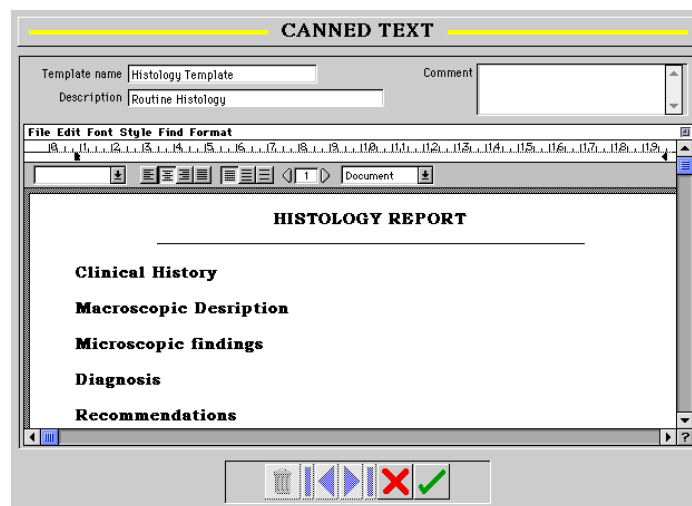
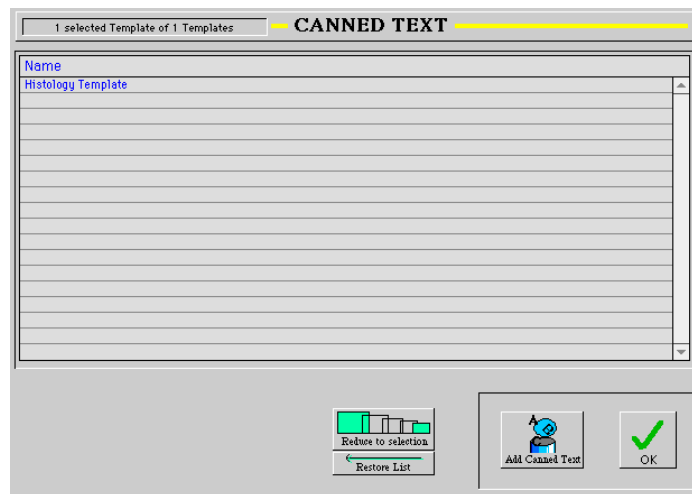
AGENT RECORD	
Lab Name	University of life laboratories
Address	<div>West End Garages</div> <div>SOHO</div> <div>London</div> <div>WC1 1CW</div>
Contact	Mr R.T.Dodger
Telephone	0171 234 5678
Fax	0171 234 5679
Comments	Mainly virology stuff done here
<div>Tests Sent</div> <div>Adenovirus</div> <div>TPHA</div> <div>EBV</div> <div>CMV</div> <div>Toxoplasma</div> <div>Arbovirus (Dengue)</div> <div>Rickettsia (Tick Typhus)</div> <div>CMV IgM</div> <div>Toxoplasma Dye test</div> <div>Toxoplasma IgM</div>	

Path: Main screen > Diagnostic > Set-up > Agents

Agents are laboratories or other institutions to which your laboratory refers work that cannot be handled in house. If a test is referred to another laboratory, the test definition for that test is designated as 'not done in house' and the relevant referral establishment is picked from a pop-up list. That pop-up list displays the 'Agents' that have been entered in this set-up screen.

The list of tests referred to a specific establishment is displayed in the right hand list on the agent record. This list is automatically produced from the information supplied in the test definition and cannot be modified here.

Set-up Canned Text (Templates)



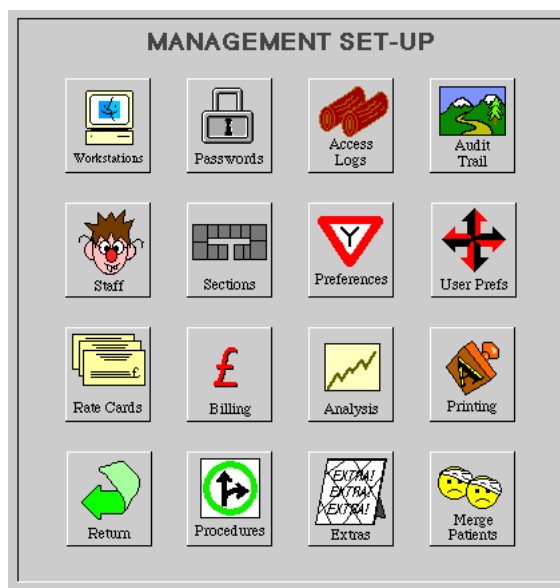
Path: Main screen > Diagnostic > Set-up > Canned Text

Canned text is defined as a pre formatted block of word processed text which can be selected from a list and added into a new word processed text result.

By producing a template into which text and font styles can be defined, it not only makes the entry of text type results more rapid, but also ensures that all reports of a like nature are consistent and reproducible.

The canned text button launches the Isis word processor which is fully featured and allows manipulation of report styles.

Set-up Management



Path: Main screen > Diagnostic > Set-up > Management

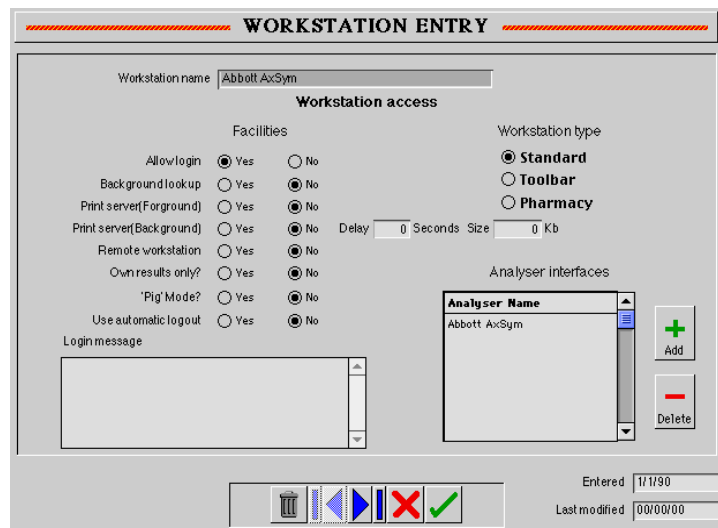
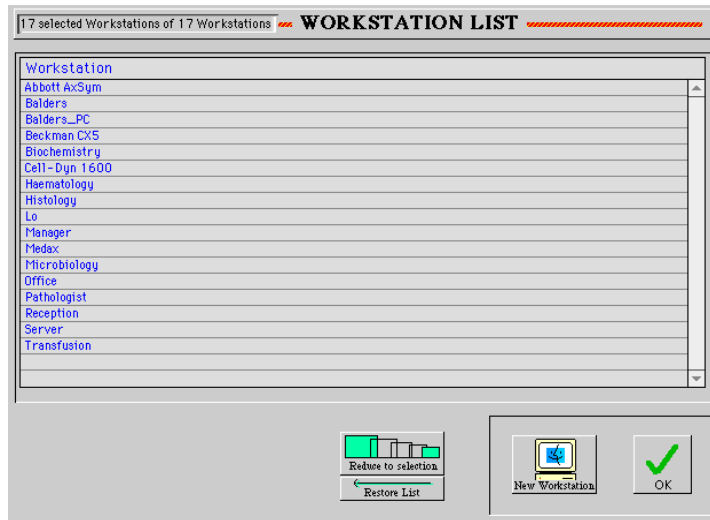
The management set-up screen is where all the different administrative, financial and printing functions of Isis are defined for the laboratory.

The functions behind each button will be discussed in detail later.

Access to the management menu can be restricted to chosen members of staff via the access level function which is part of the 'staff' set-up.

The 'staff', 'sections' and 'printing' functions need to be defined before you can start working with your Isis database. If you are using Isis on a multi-user network with multiple workstations, these 'workstations' will also require defining before you start. Details in all files can be modified in the future as your laboratory requirements change.


Set-up Workstations



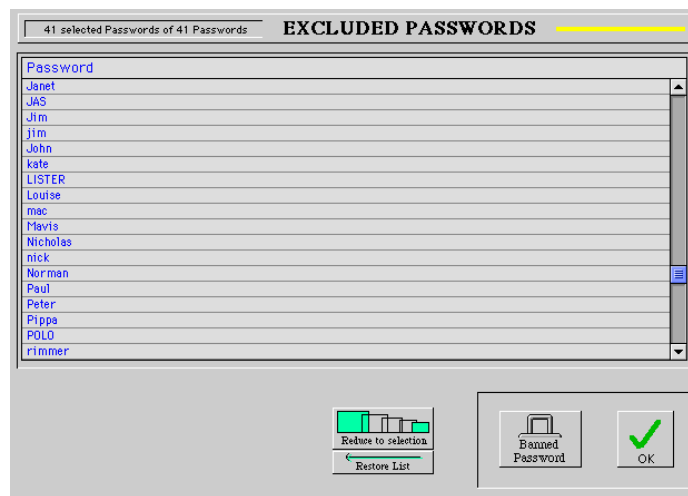
Path: Main screen > Diagnostic > Set-up > Management > Workstations

Workstation definition is required where Isis is used on a multi-user network. Various workstations will need to be set-up for different tasks e.g. workstations that are interfaced with analysers or hospital PAS systems will have a different set-up to those used solely for the more administrative tasks in the laboratory.

Set-up Passwords



A dialog box titled "PASSWORD" with a section labeled "Excluded password". It contains three input fields: "Balders" in the first, "Issued to" in the second, and "Date issued" with the value "25/07/96" in the third. At the bottom is a toolbar with icons for deleting, navigating, and confirming.



A window titled "EXCLUDED PASSWORDS" showing a list of 41 selected passwords. The list includes names like Janet, JAS, Jim, John, kate, LISTER, Louise, mac, Mavis, Nicholas, nick, Norman, Paul, Peter, Pippa, POLO, and rimmer. At the bottom are buttons for "Reduce to selection", "Restore List", "Banned Password", and "OK".

Password
Janet
JAS
Jim
John
kate
LISTER
Louise
mac
Mavis
Nicholas
nick
Norman
Paul
Peter
Pippa
POLO
rimmer

Path: Main screen > Diagnostic > Set-up > Management > Passwords

This function allows the laboratory manager or system administrator to enter passwords that they do not want to be used on the system. It will allow you also to view passwords that have previously been assigned. Once a password has been used it cannot be used again by any individual and a New Password must be defined. Passwords can be changed at any time and by any staff member via the 'User Preferences' button in the Management Set-up area. Alternatively, on entering Isis via the Log-on screen, you will be presented with a 'Change Password' option on the message screen before you proceed into Isis.

Passwords can be made up of any combination of numbers, letters, or spaces from a minimum of four, up to a maximum of thirty characters. When typing in your log on password, it is not case sensitive.

Passwords are automatically set to expire within a defined period of time. You will be warned every time you try to log on, from 28 days prior to the date that your password will expire and will be encouraged to change your password. Note that you cannot re-use a previously used password.

Audit Trail

PERIOD REQUIRED

from

to

✗
✓

CANCEL
OK

1229 selected Audits of 1229 Audits AUDITABLE CHANGES				
Date	File	Reference	User	Description
29/01/97	Requests	701271424	Hilary	change no of units requested
29/01/97	Requests	701271424	Hilary	remove x match
29/01/97	Requests	701271424	Hilary	add 2 units
29/01/97	Requests	v2839	val	tried to change lab no because it didnt enter the full d
29/01/97	Requests	701243125	Neil	+ immuno
30/01/97	Requests	701221093	john	add diff
30/01/97	Requests	701300244	Hilary	CHANGE WARD
30/01/97	Requests	701300244	Hilary	..
30/01/97	Requests	701300244	john	..
30/01/97	Requests	701221025	Stross	add
30/01/97	Requests	701231151	Stross	ADD
31/01/97	Requests	701303541	Sarah	none
31/01/97	Requests	701231151	Jim	add
31/01/97	Requests	701300283	john	REMOVE MC&S
31/01/97	Requests	701221072	Jim	KLJKJ.L
31/01/97	Requests	701303540	Sarah	Change ward from OPD to No.
31/01/97	Requests	701221025	Jim	ACC
31/01/97	Requests	701221025	Jim	ADD CONSULTANT COMMENT

Print
Reduce to selection
Restore List
Done

Path: Main screen > Diagnostic > Set-up > Management > Audit Trail

Any changes that are made to previous requests will prompt the user to record what changes have been made. You will be requested to give reasons for making those changes. Both these fields are mandatory, if reasons are not entered, the edited changes will not be accepted.

The changes that have been made are stored in the audit trail file and are accessible to staff with sufficient access. They are displayed as seen above.

Set-up Users 1

[illegible]

USER RECORD			
Surname	Baldwin	Mr	Nl Number EB234567B
Forename	David		Salary £ 0.00
Occ	Support		Holidays Nil
Sex	Male		Last login 00/00/00
DoB	26/8/56	41y	Logged in? <input type="radio"/> Yes <input checked="" type="radio"/> No
Marital	Married		Logged at
Address	30 The Drive Cranleigh Surrey		
Post Code	GU6 7LZ		
Home Tel	01252 675236		
Other	01483 272140		
Fax	01252 675236		
		Photograph	
		Notes	

Path: Main screen > Diagnostic > Set-up > Management > Staff

All staff and users of the Isis computer system have to be registered onto the database otherwise access to Isis will be denied. Each individual has their own unique password which when entered at log-on will set the access privileges for the workstation .

The system administrator will be responsible for maintaining the staff list in Isis, adding new staff and setting their access levels.

Set-up Users 2

Staff Member Name			
David Baldwin	Log-on Password	<input checked="" type="checkbox"/> Allow Login?	Password expires
David	Let me in	9/8/01	

Areas of Access			
Diagnostic	Trials	Stocks	Transfusion
Enter Request	Access?	Tests	View Modify
Edit Request	<input checked="" type="checkbox"/>	Profiles	<input checked="" type="checkbox"/>
Lookup	<input checked="" type="checkbox"/>	Analysers	<input checked="" type="checkbox"/>
		Test Mapping	<input checked="" type="checkbox"/>
		Organisms	<input checked="" type="checkbox"/>
		Antibiotics	<input checked="" type="checkbox"/>
			View Modify
			Comments
			Stamps
			Customers
			Locations
			Agents
			Specialities

☒ OK
 ☐ CANCEL

Staff Member Name			
David Baldwin	Log-on Password	<input checked="" type="checkbox"/> Allow Login?	Password expires
David	Let me in	9/8/01	

Areas of Access			
Diagnostic	Trials	Stocks	Transfusion
Issue Stocks	Access?	Suppliers	View Modify
Receive Stocks	<input checked="" type="checkbox"/>	Stocks	<input checked="" type="checkbox"/>
Order Stocks	<input checked="" type="checkbox"/>		

☒ OK
 ☐ CANCEL

Staff Member Name			
David Baldwin	Log-on Password	<input checked="" type="checkbox"/> Allow Login?	Password expires
David	Let me in	9/8/01	

Areas of Access			
Diagnostic	Trials	Stocks	Transfusion
Stocks	Access?		View Modify
Group	<input checked="" type="checkbox"/>		
Crossmatch	<input checked="" type="checkbox"/>		

☒ OK
 ☐ CANCEL

Staff Member Name			
David Baldwin	Log-on Password	<input checked="" type="checkbox"/> Allow Login?	Password expires
David	Let me in	9/8/01	

Areas of Access			
Diagnostic	Trials	Stocks	Transfusion
Do Tests	Access?	Assign Sections	
Validate Tests	<input checked="" type="checkbox"/>	Available sections	Current sections
2nd Validation	<input checked="" type="checkbox"/>	BONE MARROW	Bacteriology
Printing	<input checked="" type="checkbox"/>	Pathology General	Biochemistry
			Coagulation
			Haematology
			Histology
			Transfusion

☒ OK
 ☐ CANCEL

Staff Member Name			
David Baldwin	Log-on Password	<input checked="" type="checkbox"/> Allow Login?	Password expires
David	Let me in	9/8/01	

Areas of Access			
Diagnostic	Trials	Stocks	Transfusion
Analysts	Access?	Workstation	View Modify
Patient Merge	<input checked="" type="checkbox"/>	Passwords	<input checked="" type="checkbox"/>
Un Validate	<input checked="" type="checkbox"/>	Access logs	<input checked="" type="checkbox"/>
		Staff	<input checked="" type="checkbox"/>
		Sections	<input checked="" type="checkbox"/>
		System Prefs	<input checked="" type="checkbox"/>
			View Modify
			Printing
			Rate cards
			Billing
			Audit trails
			Extras

☒ OK
 ☐ CANCEL

Path: Main screen > Diagnostic > Set-up > Management > Staff > Access details

The above screens show all the areas of the Isis database that are controlled by access privileges. The green ticks toggle on and off with the click of the mouse button to allow the laboratory administrator to set each member of staff their own individual access levels.

To limit access to selected sections of the laboratory i.e. to stop an individual from entering or modifying results in a particular discipline, drag the appropriate sections from the 'available sections' list into the 'current sections' list in the 'laboratory area' or the other way to deny that individual access to a specific section.

Set-up Sections

[illegible]

SECTION RECORD	
Name	Bacteriology
Cost centre	87
Notes	Bacteriology cultures and sensitivities, Screening and multiple bacteriology reports
<input checked="" type="radio"/> Laboratory	<input type="radio"/> Administration

Path: Main screen > Diagnostic > Set-up > Management > Sections

With Isis it is easy to manage the work coming into your laboratory into separate areas or sections. Once a section has been defined, tests can be allocated to that section in their set-up (see test definition). These tests will then appear in the worklist for that section when you come to enter results.

If required, large sections of the laboratory, e.g. haematology, can be broken down into smaller more manageable sections for example, coagulation, manual tests, etc.

By dividing your sections into cost centres it is also possible to use this information for financial audit, planning and stock management (See Stocks).

Only sections defined as 'laboratory' will appear in the worklist selector when entering results but other sections defined as 'administrative' will be included in budgeting and audit reports.

Tests that are defined as 'tested by analyser' can be assigned to sections for statistical and administrative purposes, but they do not appear in the sections under the worklists in 'result entry'. They will appear in a worklist under the button for that specific analyser on the Result Entry screen.

'Send away' or referred tests should be allocated to a Section but this is not essential as results can be entered for these tests by accessing them through the 'send aways' button on the result entry screen.

Set-up System Preferences

SELECT PREFERENCE

☒ **General**

☐ **Transfusion**

☐ **Management**

☐ **Printing**

☐ **Clinical trials**


☐ **Reports**


☐ **Laboratory**

☐ **Send aways**

☐ **Stocks/stores**

☐ **Billing/Statistics**

 CANCEL

 OK

GENERAL PREFERENCES


System Beep sound


Result lookup
Show reports first? ☐ No ☒ Yes

Test Entry Search Sensitivity
No of characters in surname No of characters in First Name

Request entry screen
Use custom entry screen (if available) ☐ Yes ☒ No Use custom edit screen (if available) ☐ Yes ☒ No

Laboratory Number
Automatic lab number generation ☐ Yes ☒ No Next lab number

 CANCEL

 OK

LABORATORY PREFERENCES

Result entry
Use double entry ☐ Yes ☒ No "Ugly" list lower limit
Use validation warnings ☒ Yes ☐ No Use test selector ☐ Yes ☒ No
Dynamic result selection list ☐ Yes ☒ No QC on manual test entry ☐ Yes ☒ No
Use prompted test cascading ☐ Yes ☒ No

Validation
Bypass result validation (not recommended) ☐ Yes ☒ No
Dynamic validation list ☐ Yes ☒ No Bacteriology validate on enter ☐ Yes ☒ No
Automatic validation ☐ On ☒ Off Histology validate on enter ☐ Yes ☒ No
Delta checking ☐ On ☒ Off
"Ugly" list lower limit
Use validation selector ☐ Yes ☒ No
Prompt for telephone list ☐ Yes ☒ No

MANAGEMENT PREFERENCES

Out of Hours Charges
Rate Card %
+ fixed fee of £

Diagnostic
☐ Yes ☒ No

VAT
☐ Yes ☒ No

Trials
☐ Yes ☒ No

Use automatic logout ☐ Yes ☒ No after minutes inactivity

Use message system as mail ☐ Yes ☒ No

PRINTING PREFERENCES

General report printing
Print complete results only once ☒ Yes ☐ No
Print with superscript ☒ Yes ☐ No Superscript size
Use second level validation ☐ Yes ☒ No

Printing setup
This system uses a print server ☒ Yes ☐ No
OR
Report printer
Worklist printer
Label printer
Print barcode lab numbers ☐ Yes ☒ No
Same number of barcode lab numbers as samples ☐ Yes ☒ No +

REPORT PREFERENCES

Standard reports
Print unauthorized results ☒ as
Bacteriology report format ☒ Antibiotics as text
☐ Antibiotics in grid

Screening reports
Screening page break limit no of tests
Separate sections in screening ☒ Yes ☐ No
Separate sections with ☐ Section name ☒ Blank line
Print bills with reports ☐ Yes ☒ No

TRANSFUSION PREFERENCES

Transfusion
Print issue labels ☒
Print issue notes ☒
Use dispose/return lists ☐

Microtitre Tray
Automatic numbering ☐ On ☒ Off
Next tray No

SEND AWAY PREFERENCES

Print one request per survey sheet ☐ Yes ☒ No
Print address labels ☒ Yes ☐ No

Path: Main screen > Diagnostic > Set-up > Management > Preferences

Some features available in Isis can be enabled or disabled in this 'preferences' section to suit the laboratory's working and reporting requirements.

Further explanation of these features will be supplied when setting up your Isis database by Elysium Gagné support staff.

Set-up User Preferences

USER PREFERENCES

General Haematology

Warning sound: Oh Oh

Log-On

Name: isis

Password: Let me in

Expires: 00/00/00

Use custom entry screen (if available) ☐

Isis

CANCEL OK

General Haematology

Map Diff Counter Buttons

Gran	Lymp	Mono	Neut
7	8	9	-
Eos	Baso	Myelo	Meta
4	5	6	+
Pro	Blast	NRBC	Other
1	2	3	0

Diff counter click sound

click

Isis

CANCEL OK



Path: Main screen > Diagnostic > Set-up > Management > User Prefs

User preferences enable each member of staff to tailor certain functions of Isis to their own requirements. At present the only available preferences are the ability to change password and to map the keys on the numeric keypad for performing manual WBC differential counts on the pop-up differential counter.

Other user preferences may be defined in the future as and when the need arises.

Set-up Rate Cards

RATE CARD RECORD																																																													
<div style="margin-bottom: 10px;"> Card Name <input style="width: 90%;" type="text" value="10% Discount"/> </div> <div> Currency <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Sterling </div> <div style="border: 1px solid black; padding: 2px;"> French Francs US Dollars Austrian Schillings Belgium Francs Bulgarian Lev Danish Krone German Marks Greek Drachma Hungarian Forint Irish Punt Italian Lira Dutch Guilder Portuguese Escudo Spanish Peseta Swedish Krona Swiss Francs </div> </div> <div style="margin-top: 10px;"> Created <input style="width: 80%;" type="text" value="11/5/98"/> </div> <div style="margin-top: 10px;"> Last modified <input style="width: 80%;" type="text" value="11/5/98"/> </div>	<div style="margin-bottom: 10px;"> Charges <div style="float: right; border: 1px solid black; padding: 2px; background-color: #f2f2f2;">Print None</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Tests</th> <th style="width: 10%;">Std</th> <th style="width: 10%;">Charge</th> <th style="width: 40%;">Print</th> </tr> </thead> <tbody> <tr><td>1/2 hr. Cortisol</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> <tr><td>24 hour Urine Volume</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> <tr><td>24hr Urine Volume (ml)</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> <tr><td>5 HIAA</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> <tr><td>A:Urine pH</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> <tr><td>A:Urine RBC</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> <tr><td>Act PTT Ratio</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> <tr><td>Adenovirus</td><td>£1.25</td><td>£1.13</td><td>Yes</td></tr> </tbody> </table> <div style="text-align: right; margin-top: 5px;"> Change </div> </div> <div> Profiles <div style="float: right; border: 1px solid black; padding: 2px; background-color: #f2f2f2;">Print None</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Profiles</th> <th style="width: 10%;">Std</th> <th style="width: 10%;">Charge</th> <th style="width: 40%;">Print</th> </tr> </thead> <tbody> <tr><td>Anti Staph</td><td>£7.14</td><td>£6.43</td><td>Yes</td></tr> <tr><td>Arterial Blood Gases</td><td>£7.14</td><td>£6.43</td><td>Yes</td></tr> <tr><td>Autoimmune profile</td><td>£7.14</td><td>£6.43</td><td>Yes</td></tr> <tr><td>Avian Precipitins</td><td>£7.14</td><td>£6.43</td><td>Yes</td></tr> <tr><td>Biochemistry Health Screen</td><td>£7.14</td><td>£6.43</td><td>Yes</td></tr> </tbody> </table> <div style="text-align: right; margin-top: 5px;"> Change </div> </div>	Tests	Std	Charge	Print	1/2 hr. Cortisol	£1.25	£1.13	Yes	24 hour Urine Volume	£1.25	£1.13	Yes	24hr Urine Volume (ml)	£1.25	£1.13	Yes	5 HIAA	£1.25	£1.13	Yes	A:Urine pH	£1.25	£1.13	Yes	A:Urine RBC	£1.25	£1.13	Yes	Act PTT Ratio	£1.25	£1.13	Yes	Adenovirus	£1.25	£1.13	Yes	Profiles	Std	Charge	Print	Anti Staph	£7.14	£6.43	Yes	Arterial Blood Gases	£7.14	£6.43	Yes	Autoimmune profile	£7.14	£6.43	Yes	Avian Precipitins	£7.14	£6.43	Yes	Biochemistry Health Screen	£7.14	£6.43	Yes
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TESTS PRICE CHANGE	
Percentage change	<input type="text" value="12.5"/> %
<input checked="" type="radio"/> Increase	<input type="radio"/> Decrease
<div> <div> CANCEL</div> <div> OK</div> </div>	

PROFILES PRICE CHANGE

Percentage change %

☒ Increase ☐ Decrease

Path: Main screen > Diagnostic > Set-up > Management > Rate Cards

The rate card feature in Isis allows your laboratory to bill your customers on an individual basis. The number of rate cards you design is limitless and all are based on one set of test prices. The cost of tests can be adjusted for each different rate card depending on how much discount you wish to assign to your customers individually. Single test prices can be adjusted, or all the prices can be modified with a click of the mouse.

When printing out a rate card to send to your customers or to potential customers so that they can see a list of your charges, it is possible to suppress the printing of tests that they are not interested in or indeed tests of a sensitive nature that your laboratory might offer to some special customers but not to all. This is achieved by toggling the 'Yes', 'No' command in the print column, then clicking on the print icon in the bottom left hand corner of the screen.

Set-up Printing

REPORTS PRINT ORDER

Available Tests	Headers in Reports
Phlebotomy	AUTOIMMUNE PROFILE
Pigeon	THYROID FUNCTION
Post-dose Vancomycin	MICROBIOLOGY
Pre-dose Vancomycin	BONE MARROW
RAST Cat	Clinical Chemistry
RAST Dog Dander	
RAST House Dust Mite	
RAST Mixed Feathers	
RAST Mixed Foods	
RAST Mixed Grass	
RAST Mixed Trees	
RAST Mixed Veesds	
RAST Penicilloyl G	
RAST Penicilloyl V	
Rickettsia (Tick Typhus)	
Sickle Cell Screen	
Tau Protein	
Thyroglobulin	
Toxoplasma	
Toxoplasma Dye test	
Toxoplasma IgM	
TPHA	
Urine Albumin	
Urine Myoglobin	
Virology comment	

☒ Print headers
 ☐ Blank line headers
 ☐ Dont print headers

Tests in Headers:

Blood Alcohol

Serum Zinc

Beta HCG

Urine creat calculated

The tests shown in this list are those included under the Header which is highlighted in the list above.

Design report

Click the 'Add' button to create a reporting section header. Available tests in the right hand list can be dragged over to the 'tests in Header' list and sorted into the order in which you want them to print on the reports.

DIAGNOSTIC REPORT

Report name: Standard Report print destination: Main tray

☐ Cumulative report?
 ☐ Include incomplete?
 ☐ Tabular report?

File Edit Font Style Find Format

Elysium Pathology Reports

 Subject: «aPatient_SName», «aPatient_FName» Sender: «aSender»

 DOB: «aDOB» Location: «aPractice»

 «aPract_Address»

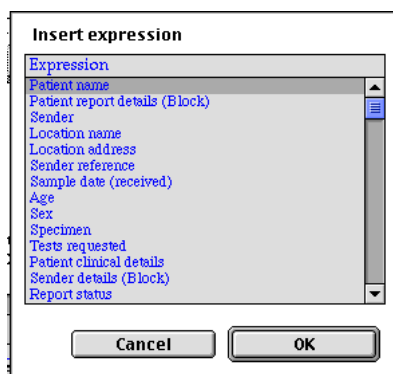
Column print order

 Test Name Test Result Result flag Test unitage Test comment Normal range

High/Low highlight option: Highlight whole line

 High value flag: Hi Low value flag: Lo

Insert Expression



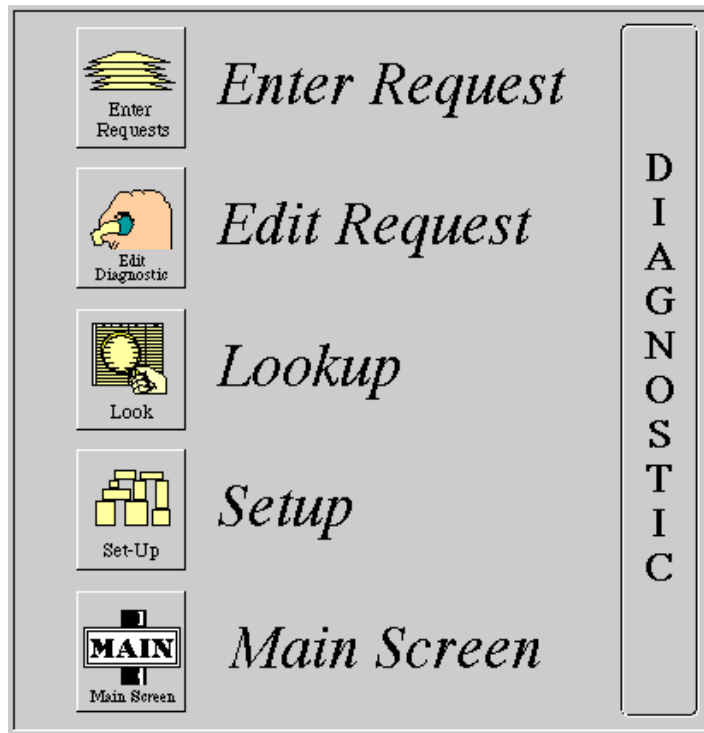
Standard word processing functions are employed to produce the report styles you require for each individual customer. A comprehensive list of Database fields can easily be added to the reports, by clicking on the 'Insert Expression' button.

Path: Diagnostic > Set-up > Management > Printing > Design Report

Follow the steps above to produce your own style of report, then apply that report to individual customers. A report can be specific for one customer or can be applied to any or all of your customers.

Please note: There has to be one report defined as 'Standard'. You do not have to apply this report to any of your customers and it need not have any specific design, but it must be in your datafile. This report format will be used as a default unless a specific report is attached to a customer.

Diagnostic - menu



Path: Main screen > Diagnostic

The diagnostic menu screen will appear when you click on the diagnostic button on the Main Screen.

From this menu, one click of the button will launch the desired process and you are ready to start inputting data into your Isis database or extracting information from it.

There are over 200 different screens associated with the diagnostic module of Isis, many of which will be shown and explained in this manual. All the screens and their associated procedures can be traced back in a stepwise fashion to the four main buttons on this screen.

Enter Request

DIAGNOSTIC TEST REQUEST

Hosp No: x1234 Lab No: 123456

Surname: Baldwin Forename: David No match found

Sex: Male Title: Mr DoB: 26/8/56 Age: 41y

Date/Time: 10/5/98 00:00 High risk: ☐ Received: 10/5/98 20:11 On Call: ☐

Customer: Name: Baldwin, David (Mr) Location: Elysium Station Clinical Notes: Lost in Space Fee to: ☒ Customer ☐ Patient ☐ 3rd party

Urgency: ☐ Emergency ☐ Priority ☒ Routine

Samples: Serum EDTA

TESTS SELECTOR

Available tests: 1/2 hr. Cortisol, 24 hour Urine Volume, 24hr Urine Volume (ml), 5 HIAA, Act PTT Ratio, Alanine Aminotransferase, Albumin, Alkaline Phosphatase, Alkaline Phosphatase Isoenzymes, Alpha-1-Antitrypsin, Alpha-fetoprotein

Available profiles: Urea & Electrolytes, Liver Function Tests, Cardiac Enzymes, **Full Blood Count**, Lipid Profile, Arterial Blood Gases, MC&S, Urine MC&S, Biochemistry Health Screen, Bone Profile, Haematology Health Screen

Selection: Full Blood Count, Urea & Electrolytes

Request charge: £14.28 Number of tests: 15

Buttons: Clear, Repeat, CANCEL, OK

The test request screen is where the patient demographics, sender details and test details are entered into the system. The actual request entry screen can be designed to a customer's own specification.

SEND COPY TO...

Surname: Farnan Address: Elysium Station, 30 The Drive, Cranleigh, Surrey

Buttons: CANCEL, OK

SCHEDULED COPIES

Customer	Location
Farnan	Elysium Station

Buttons: Add, Delete, Done

Copies can be sent to selected senders or locations at the click of a button. More than one copy can be sent to any number of recipients. These can be added on the fly if required.

Path: Main screen > Diagnostic > Enter Request

The diagnostic test request entry screen is the point at which requests for tests are entered into Isis. All requests are assigned to a customer, this allows for individual billing of all requests either to the customer, directly to the patient or to a third party.

Enter the patient's demographics by typing the details into the appropriate fields.

When entering patient details by either hospital/reference number or by surname, Isis will automatically search the database for a match and if found, will list the patients for you to choose the correct one. Once selected, all patient and customer demographics will be updated. If no match is found, a note will appear saying 'No Match' and the user will need to enter the demographics in full.

When entering customer details the system will automatically search for existing customers and list any that fit the search criteria, (for example: If you type the letter 'A' it will search for all customers whose surname starts with 'A'). If the required customer is not in the list it can be added by clicking the 'New' button (see Set-up- customer). When a customer is added, they must be assigned to a location, therefore a location list will be displayed from which to select the appropriate entry. Again, new locations can be added as necessary.



Required tests and/or profiles of tests are added to the request by clicking on the appropriate Test/Profile in the lists below the demographic fields. They can be deselected by clicking on the test or profile a second time.

Click the [v] button or Enter Key, to accept the request.

Test Request Selection



Tests Selected	
Test	Analysed hold
Serum Sodium	No
Serum Potassium	No
Serum Urea	No
Serum Creatinine	No
Alanine Aminotransferase	No
Aspartate Aminotransferase	No
Alkaline Phosphatase	No
Gamma Glutamyl Transpeptidase	No
Serum Bilirubin	No
Total Protein	No
Albumin	No
Globulins	No
Haemoglobin	No
White Cell Count	No
Platelet Count	No
Mean Cell Volume	No

23 Tests selected.

 Delete  OK

Tests Selected	
Test	Analysed hold
Serum Sodium	No
Serum Potassium	No
Serum Urea	No
Serum Creatinine	No
Alanine Aminotransferase	No
Aspartate Aminotransferase	No
Alkaline Phosphatase	No
Gamma Glutamyl Transpeptidase	No
Serum Bilirubin	No
Total Protein	No
Albumin	No
Globulins	No
Haemoglobin	No
White Cell Count	No
Platelet Count	No
Mean Cell Volume	No
Granulocytes	No
Lymphocytes	No
Monocytes	No

15 Tests selected

 Delete  OK

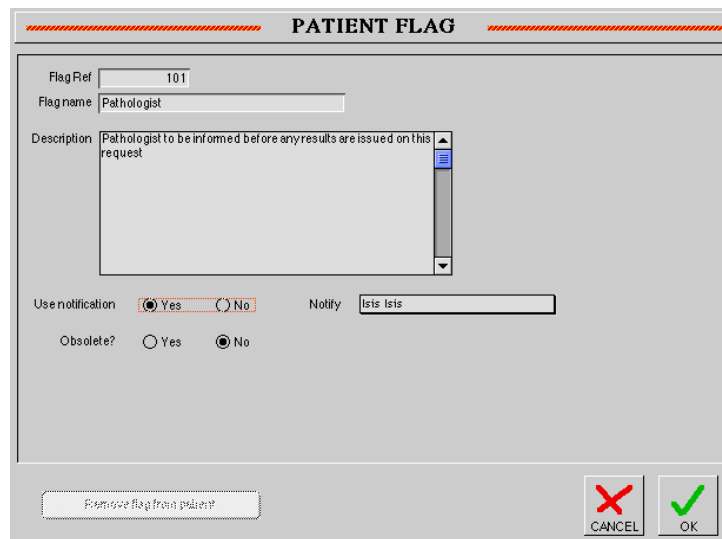
Path: Main screen > Diagnostic > Enter Request

By clicking on the word 'Selection', the selected tests will appear on a pop-up list. On the bottom left of this pop-up screen is a 'Delete' icon. To deselect individual tests, highlight the required test and click on the Delete icon. This will confirm that you wish to delete the selected test then deselect it when you click the 'YES' button.

On custom request entry screens, the 'Tests Selected' may be seen by clicking on the 'No. of tests' window usually located at the bottom of the screen.

On the bottom left corner of the request entry screen is a 'Look' button. If this is activated in the preferences for an individual workstation it will allow rapid access to the search screen. This is particularly useful on terminals that are predominantly used for request entry. It allows you to access results, e.g. for telephone enquiries, without having to quit out of the request entry that maybe partially completed. When you have finished with the Look-up, you will automatically be put back into the request entry at the point you were previously.

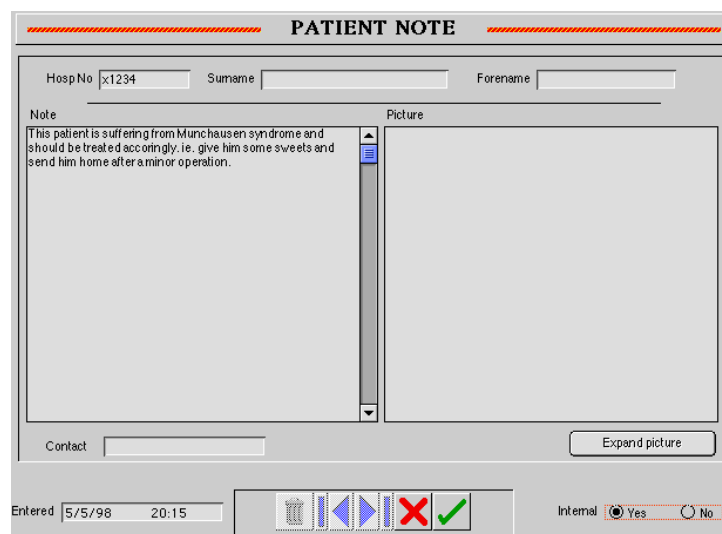
Enter Request - pop-ups



The **PATIENT FLAG** pop-up screen contains the following fields and controls:

- Flag Ref**: Text box with value 101.
- Flagname**: Text box with value Pathologist.
- Description**: Text area with value Pathologist to be informed before any results are issued on this request.
- Use notification**: Radio buttons for Yes (selected) and No.
- Notify**: Text box with value Isis Isis.
- Obsolete?**: Radio buttons for Yes and No (selected).
- Buttons**: "Remove flag from patient", "CANCEL" (with red X), and "OK" (with green checkmark).

This screen enables you to put custom flags onto a request to alert the laboratory as to any special handling or treatment required.



The **PATIENT NOTE** pop-up screen contains the following fields and controls:

- Hosp No**: Text box with value x1234.
- Surname**: Text box.
- Forename**: Text box.
- Note**: Text area with value This patient is suffering from Munchausen syndrome and should be treated accordingly. ie. give him some sweets and send him home after a minor operation.
- Picture**: Large empty text area for attaching a picture.
- Contact**: Text box.
- Expand picture**: Button.
- Entered**: Date/time box with value 5/5/98 20:15.
- Buttons**: A set of navigation icons (back, forward, etc.) and "CANCEL" (red X) and "OK" (green checkmark) buttons.
- Internal**: Radio buttons for Yes (selected) and No.

This screen can also be used to attach a note to a request that is stored with the selected patient. This type of note will be seen whenever the patient is readmitted to the system

Path:- Main screen > Diagnostic > Enter Request

Whilst entering requests, various pop-up screens will appear when tabbing through the appropriate fields. These enable you to assign reports to the correct sender or location, send copies to other locations or send bills for the requests directly to the person who pays the bills.

Sample types are assigned to most tests when setting up test definitions (see set-up - test definition). These will automatically update in the samples window when the tests are selected. Specimen types for bacteriology, cytology and histology will vary even for the same test (e.g. MC&S). Therefore, these are selected from a pop-up list, activated by clicking on the word 'Samples' above the window.

Diagnostic Look-up

DIAGNOSTIC REQUESTS SEARCH

Patient

Surname

First Names


Hospital No

Date of Birth

Flags

Check for exact match

☐



Sounds like...

Request


Customer


Location

Entry Date from

Entry Date to

Lab No


 CANCEL


 OK

PATIENT REQUESTS

Hosp No

Surname

Forename

Sex

DoB



Age






Clinical

Requests

Lab Number	Date	Sender	Location	Request
DJB001	12/5/98	Ashby	Sherburne Hospital	Histology (small) ? Nasal polyp
922	16/1/98	Ashby	Sherburne Hospital	Alphafetoprotein, Full Blood Count, Urea & Electrolytes
222	15/1/98	Ashby	Sherburne Hospital	Full Blood Count EDTA
b03319	23/7/97	Ashraf	King Edward VII Hospital	Lipid Profile Serum
djb123	23/7/97	Ashraf	King Edward VII Hospital	Urine MC&S (Hospital)
1002	18/5/97	Ashraf	King Edward VII Hospital	Free T4 Serum
1001	18/5/97	Ashraf	King Edward VII Hospital	Free T4 Serum
TEST3	25/4/97	Ashraf	King Edward VII Hospital	Male Fertility Test.

Record No: 1 of 2 selected Patients

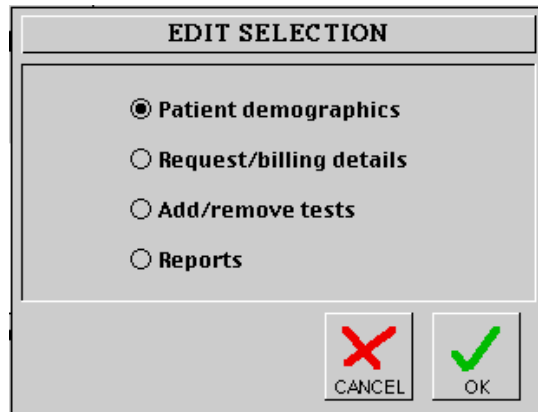



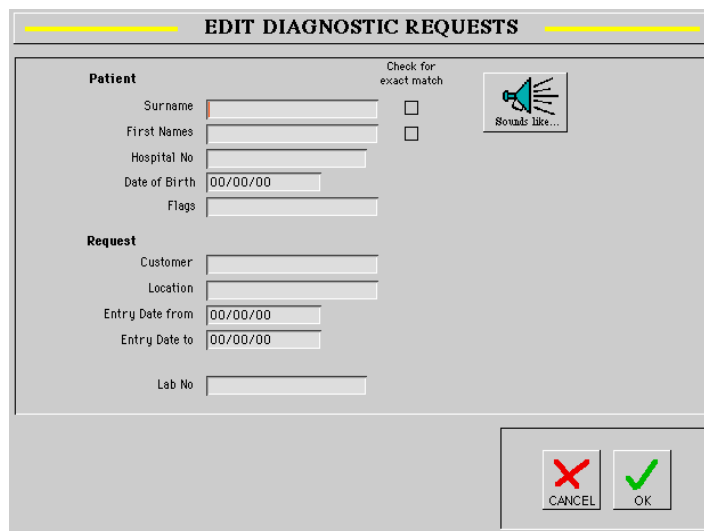
Path: Main screen > Diagnostic > Look-up

'Diagnostic Look-up' shares certain screens with 'Request Edit' (i.e. the search and select screens). When you click on the look-up button on the main diagnostic screen, you will be presented with the search screen as seen in 'Request Edit' but once the desired request is selected, look-up only allows you to look at previous results and reports and reprint them if required. It is not possible to change results or add to requests, this has to be done in 'Request Edit'.

Edit request - search



A dialog box titled "EDIT SELECTION" with a light gray background and a black border. It contains four radio button options: "Patient demographics" (selected), "Request/billing details", "Add/remove tests", and "Reports". At the bottom right, there are two buttons: "CANCEL" with a red X icon and "OK" with a green checkmark icon.



A search screen titled "EDIT DIAGNOSTIC REQUESTS" with a light gray background and a black border. It is divided into two main sections: "Patient" and "Request". The "Patient" section includes fields for Surname, First Names, Hospital No, Date of Birth (00/00/00), and Flags. To the right of these fields are checkboxes for "Check for exact match" and a speaker icon labeled "Sounds like...". The "Request" section includes fields for Customer, Location, Entry Date from (00/00/00), Entry Date to (00/00/00), and Lab No. At the bottom right, there are "CANCEL" and "OK" buttons with red X and green checkmark icons respectively.

Path: Main > Diagnostic > Edit Request

It may be necessary on occasions to add or remove certain elements of a request after it has been made and saved. For example, you may wish to add further tests following a telephone call from the clinician, or remove selected tests if they had been requested in error. You may need to change or add to patient or customer demographics.

Once you click the 'Edit Request' button in the Diagnostic screen, it will launch the 'Edit Selection' box. Select the type of edit you wish to make and click OK. The 'Edit Diagnostic Request' search screen will appear. This enables you to locate the required request to edit from various different criteria, Patient Surname, Laboratory number etc. Type in as little or as much information as you require to make a selective search. A unique modifier, for example 'Lab No.' or 'Hospital No.' will produce a single patient list.

By typing the 'Surname' or 'First name', a list of all the subjects with those details will be produced. (NB. If you type the name 'Smith', Isis will also list 'Smithson' and 'Smithsonian' etc. This is because the search facility will automatically search on partial details, unless you click in the box 'Check for exact match'. Sometimes you may only have partial subject details, then this facility is more useful). This facility can be used to good effect even if you only know the subject's initials, by typing 'S' it will list all the subjects whose name begins with 'S', in alphabetical order, or date and alphabetical order if you have modified your search by defining a period.

The 'Sounds like' button is particularly useful if you are asked to look up a result and you are not sure of the spelling. Isis will list all the subjects who have a phonetic resemblance to the name you type.

Edit request - list

[illegible]

PATIENT EDIT			
Patient			
Hosp No	x1234	Clinical	Testing virology result
Surname	Baldwin		entry25/3/97 : Testing cervical
Forename	David		cytology report option
Sex	Male	Address	18/5/97 : Testing Axsym interface
Title	Mr		
DoB	26/8/56		
<input type="checkbox"/> High Risk? <input type="checkbox"/> Chemo patient?			
Lab Number	Date	Sender	Location
DJB001	12/5/98	Ashby	Sherburne Hospital
			Request
			Histology (small)
922	16/1/98	Ashby	Sherburne Hospital
			? Nasal polyp
222	15/1/98	Ashby	Sherburne Hospital
			Alphafetoprotein, Full Blood Count, Urea & Ele
b03319	23/7/97	Ashraf	King Edward VII Hospital
			Full Blood Count
djb123	23/7/97	Ashraf	King Edward VII Hospital
			EDTA
1002	18/5/97	Ashraf	King Edward VII Hospital
			Lipid Profile
			Serum
			Urine MC&S
			Urine (Hospital)
			Free T4
			Serum

Path: Main screen > Diagnostic > Edit Request > Search

When you have defined the search criteria, Isis will present a list of possible patients that meet those criteria. The required patient can be selected from this list by highlighting and clicking on the 'Open' button at the bottom of the screen, or by double clicking on the chosen record.

This will then present you with a list of all requests associated with that patient. By double clicking on the relevant request, or again, by highlighting and clicking the 'Open' button, the 'Request Edit' screen will be launched, this screen will show the original request that had been made.

Edit request

REQUEST EDIT

HospNo: x1234 Surname: Baldwin DoB: 26/8/56
 LabNumber: 922 Forename: David Age: 41y

Received: 16/01/98 10:40 Request clinical: [Empty]
 Specimen date: 16/1/98 10:40 Request comment: [Empty]
 Customer: [Empty]
 Name: Ashby Specimens: EDTA, Serum
 Location: Sherburne Hospital Bacteriology specimens: [Empty]
☐ Complete ☐ Chemo
☐ Billed ☐ Fax
☐ High risk

Billing/workload: [Add] [Delete] Request: [Empty]

Item	Charge	Workload	Code
Liver Function Tests	30.6	0	LM0205
Albumin	7.9	0	LM0218
Urea & Electrolytes	22.1	0	LM0201
Full Blood Count	27.7	0	LM0104
Alphafetoprotein	13.6	0	LM9201

 Alphafetoprotein, Full Blood Count, Urea & Electrolytes

Notes: [Icon] Flag: [Icon] [Trash] [Left Arrow] [Right Arrow] [Red X] [Green Check]

Path: Main screen > Diagnostic > Edit Request > List > Selected Record

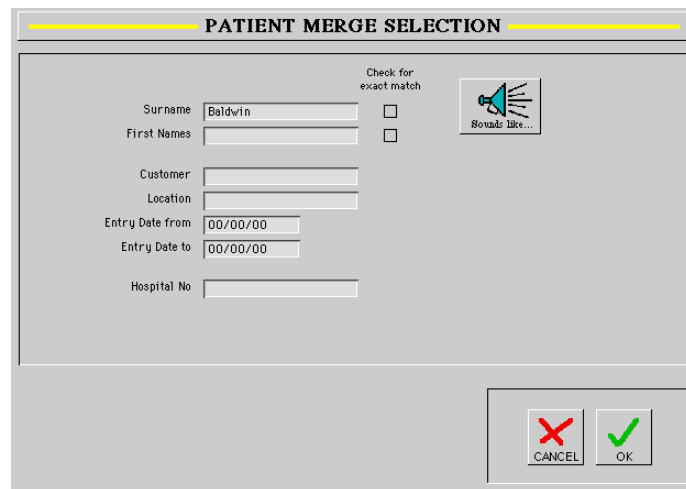
The 'Request Edit' screen displays all the relevant information for a selected patient or laboratory number. In this screen it is possible to add to or remove from the original request any or all of the details or requested tests by clicking in the appropriate field and changing the information to that which is required.

If a test has already been completed and printed, Isis will not allow you to remove it from the request but the result may be hidden.

The two buttons to the left at the bottom of the screen 'Notes' and 'Flags', allow you to see instantly if the request has any user defined flags or comments attached to it.

When editing the request is completed, click on the green 'v' to accept the changes. When you do this a dialogue box will pop-up entitled 'Auditable changes'. The user must type a reason for making the changes in order for the edit to be accepted. This audit is stored permanently in Isis and can be accessed by the laboratory manager at any time by clicking on the 'Audit Trail' button in the 'Management' set-up.

Patient Merge



The screenshot shows a dialog box titled "PATIENT MERGE SELECTION". It contains several input fields for patient information: Surname (with "Baldwin" entered), First Names, Customer, Location, Entry Date from (00/00/00), Entry Date to (00/00/00), and Hospital No. To the right of the Surname and First Names fields are checkboxes for "Check for exact match" and "Sounds like...". The "Sounds like..." checkbox is accompanied by a speaker icon. At the bottom right of the dialog are two buttons: "CANCEL" with a red X icon and "OK" with a green checkmark icon.

Path:- Main screen > Diagnostic > Set-up > Management > Merge Patients

The merge patients function allows you to move all the requests and results booked in under one patient into the records of another patient. It maybe that a particular patient had been booked in twice with slightly different demographics, or a patient may have changed their name by marriage. Whatever the reason, it is vital for good management of your database that the two patients to be merged are positively identified before you merge the records. The action of merging records CANNOT BE UNDONE. It is only possible to merge one pair of records at a time.

The action of merging patients is auditable and it is recommended that the system manager restricts access to this function to as few people as necessary.

Management Reports

MANAGEMENT REPORTS

Standard reports

Standard workload report
Duplicate patient report

Execute

Ad hoc reports

File selection

☒ Patients
☐ Workload
☐ Requests
☐ Results
☐ Customers
☐ Stocks

Design report

Execute

Path: Main screen > Diagnostic > Set-up > Management > Analysis

One of the most powerful and useful features of the Isis database is the ability to produce reports, graphs and lists from the information stored in your data. These reports can be used for a variety of presentations from financial statements to cross infection reports. Any of the data stored within Isis can be manipulated to produce clear and concise presentations.

The following pages will show the most important features and how to access them and manipulate them to produce the reports or statistics you need.

When you click on the 'extras' button, a list of procedures will pop-up. Some of these are associated with the internal management of data, e.g. 'Analyser tidy'- which is used to clear information sent from an analyser that is stored in Isis but not required by the laboratory, like primer sample results or analyser standards.

The fields you require for producing reports are 'reports', 'QC review', 'results review' and 'consultant differential reports', other parameters will be added to this list if required by an individual laboratory.

Once a report has been defined it is an easy process to add headers and footers to the report, or graph and print it. Alternatively, the selected fields can be exported from Isis in ASCII text format.

If the report you have designed will be used again, for example for monthly statistics or cross infection reports, it can be saved in a directory of your choice and reapplied to the relevant data at a later date, so that all your reports for a certain search will always appear in the same format.

Management Reports Selection

Patient	Birthdate	Sender	Reference
Baldwin David	00/00/00	Bailey	12
Baldwin Dave	00/00/00	Allen	2345
Baldwin David	26/8/56	Ashby	x1234

3 records in selection.

Path: Main screen > Diagnostic > Set-up > Management > Analysis > Execute

Before you begin to produce a report in Isis it is prudent to write down exactly what you want the report to display. For example, you may wish to produce a report of all the full blood counts requested by Dr Smith for the month of March 1997. If you have an idea of the report required it makes the searching and selecting of records much simpler.

The initial search and sort exercise can be further modified at a later stage to select precisely the records you are interested in (see Management Report Builder).

Search Editor

Search...

Date_Entered is greater than 01/01/1997

[Requests]

xCase_Number
xRequest_ID
xSender_ID
Lab_Number
Date_Entered
Complete
Billed
Charge
Sender

begins with
is equal to
ends with
is not equal to
is greater than
is greater than or equal to
is less than
is less than or equal to
contains
does not contain

And
Or
Except

☒ Search in selection

Clear Delete Load... Save... Cancel Search

Path:- Main screen > Diagnostic > Set-up > Management > Analysis > Reports

To produce a Management style report from the data stored within the Isis database, the first thing you need to do is to select the relevant data for the desired report. It is prudent, before instigating a search of your data for your report, to have some idea of what you want the report to show. All the data in the database is stored in 'files' of which there are approximately one hundred and within the files are 'fields'. The example above shows the fields contained within the 'requests' file in the left hand box of the three boxes below the large 'script' window. 'Fields' that are shown in Bold are Indexed fields and are very much faster for searching. Searching your database on Non-Indexed fields can be very time consuming and is best performed when there is little or no other activity on your network.

A simple search consists of three elements: a 'field' from the database (left hand box), an 'argument', e.g. 'is equal to' (middle box) and a 'value', which is either typed into the value field, or if the field is a boolean, the value field will give you the choice of 'Yes' or 'No'. More complicated searches will also require a modifier like 'and' or 'or', these are selected from the right hand box simply by clicking on them after entering a 'value' to one line of your search.

The most efficient way to conduct a complicated search is to do it in stages for example, apply a search to your request File for 'Date_Entered', 'is greater than', '01.01.97' 'i And'; 'Date_Entered', 'is less than', '01.02.97'. This will return a selection of all the requests from January 1997. Then to search within this selection for specific data is much faster than searching the whole database in a complicated search. To search within this selection (the 'Current selection') it is very important to remember to check the box 'Search in Selection'.

When you have completed your search you will produce a selection of records on which to apply your report. (See Report Editor).

Management Reports Builder

Quick Report Editor

☒ Report with frame

Requests

- xCase_Number
- xRequest_ID
- xSender_ID
- Lab_Number
- Date_Entered
- Complete
- Billed
- Charge
- Sender
- Specimen
- Request_Text
- High_Risk
- Urgent
- Stat

Sort

<<Add Sort>>

	Hospital_No	First_Names	Surname	Lab_Number	Request_Text
H	Hospital_No	First_Names	Surname	Lab_Number	Request_Text
D					
I					

50 100 150 200 250 300 350 400

☐ Sum
 ☐ Average
 ☐ Min
 ☐ Max
 ☐ Count
 ☐ Auto column width
 ☐ Repeated values

Print **OK**

Path:- Main screen > Diagnostic > Set-up > Management > Extras > Reports

Once you have selected the records of interest, a report can be built by dragging the required fields of the report into the report builder, then sorting those fields to produce a report in a logical order. To preview the results of your report click the 'Print' button then select 'Preview on screen' from the print dialogue window. See 'Management Report Printing' for more details.

Quick Report Editor

Path: Main screen > Diagnostic > Set-up > Management > Extras > Reports

The top left corner of the screen is a 'File Selector' -by default the fields displayed in this box will be the fields from the original file selected, i.e. you are making a report of requests, this box will display all the fields in the requests file. One request can have many results, so this is a ONE to MANY relationship, therefore if you wish to produce a report for all the results from certain requests you start in the request file. If the field you require is not in that file but is located in another file in Isis e.g. you want to display the patient's name, click and hold the mouse cursor between the two arrows at the top of the box and all the files will be available to you . Select the most appropriate file, in this case 'patients' and the displayed fields will now be those of the patient file.

Drag the fields you require in your report from the list in Box 1 into the report building area. When you release the mouse button a new column will be created which will contain information from the selected field. Each column has two headers, the uppermost one shows the selected field name and cannot be changed, below that, in the row entitled 'H' the field name is duplicated, but this name can be edited and this is the header that will print out on the final report. The other rows are 'D' = Details, 'B' = Break (there can be more than one break), note there must be at least as many sorts as there are breaks. And 'T' = Totals, which display at the bottom of the report.

'Sort selection' - allows the columns of your report to be sorted into numerical or alphabetical order. The arrow indicates whether the sort order is ascending or descending and can be changed by clicking once on the arrow. Multiple sorts can be applied to your report and the order of sorting will be in the order of the selected columns in this list. To apply a sort to a column, drag the phrase 'Add sort^a' across the column to be sorted and release the mouse button.

Useful mathematical data can be displayed on the report by applying one or more calculation functions to the relevant area of the report design. To add a 'Count' or a 'Sum' or an 'Average' to each part of a report, breaks between sets of data will need to be applied and the Calculation function is inserted in the break row of the relevant column. To insert a break, click on the row header 'D' and from the 'File' menu select 'Insert Break'.

Management Reports Printing

Hospital_No	First_Names	Surname
12	David	Baldwin
2345	Dave	Baldwin
x1234	David	Baldwin

Zoom

Next Page

Stop Printing

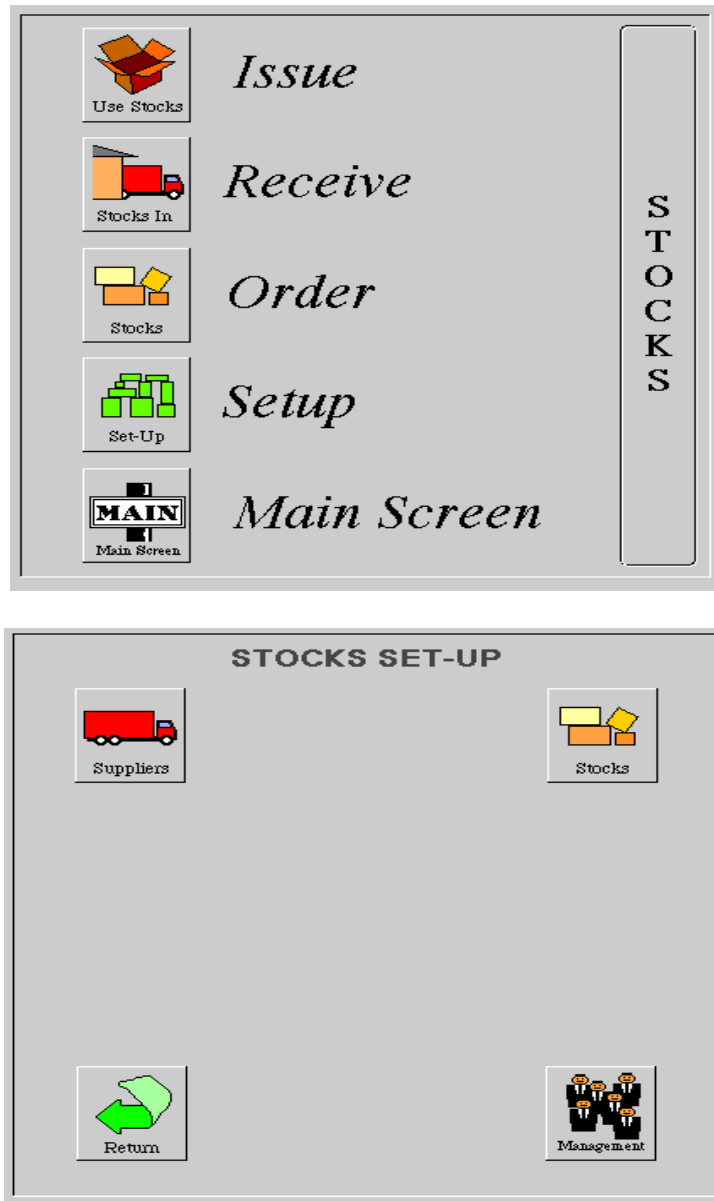
Print

Path:- Main screen > Diagnostic > Set-up > Management > Extras > Reports

Before printing your report it is wise to preview it on screen to ensure it contains all the detail you require.

Headers and footers can be added to your report from the report builder screen by clicking on 'Page Set-up' from the 'File' menu. Different fonts and styles can also be applied at this stage.

Stocks - Main Menu



Path: Main screen > Stocks

The stocks menu screen will appear when you click on the stocks button on the main screen.

From this menu one click of the button will launch the desired process and you are ready to start inputting data into your Isis database or extracting information from it.

Stocks - Set-up Suppliers

[illegible]

SUPPLIER RECORD	
Name	Faivley Towers Plc
Address	Flowerly Twats House Cliff Top Torquay Devon
Contact	Basil Tgm Detective
Phone	01234 567890
Fax	01234 567899
Comment	Reliable network supply, but bisteringly cheap.
<div>My Ref FT 001</div> <div>Stock Items</div> <div>Order name</div> <div>Glass bottomed boats</div>	

Path: Main screen > Stocks > Set-up > Suppliers

You can order supplies for your laboratory directly from Isis once you have set-up a list of companies or departments from whom you order stocks. It is advisable to set up your list of suppliers first and then add the stock items that they supply afterwards.

To add, view or edit a supplier, click on the 'suppliers' button in the stocks set-up screen. To view or edit a supplier, double click on the required record in the resultant 'supplier list' and this will open the appropriate supplier record which can then be viewed or amended.

To add a new supplier click once on the 'new supplier' button to open the supplier record and type in the relevant details.

The area on the screen entitled 'stock items' is not modifiable in this area as it gets its information from the stocks list.

If you wish to print a list of suppliers, select those you are interested in by highlighting them in the list and reduce to your selection, then click the 'print' button. A list of suppliers with names, addresses and contact numbers will then be printed.

Stocks - Set-up Stocks

[illegible]

STOCK ITEM RECORD			
Item Name	<input style="width: 85%;" type="text" value="Glass bottomed boats"/>		
Catalog Name	<input style="width: 45%;" type="text" value="Glass bottomed boats"/>	Catalog number	<input style="width: 45%;" type="text" value="FT 010"/>
Supplier Name	<input style="width: 80%;" type="text" value="Fawley Towers Plc"/>		<input checked="" type="checkbox"/>
Telephone No.	<input style="width: 30%;" type="text" value="01234 567890"/>	Contact Name	<input style="width: 40%;" type="text" value="Basil Tgm Detective"/>

Stock Details			
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Stock Issue Values </div> <div style="text-align: center;"> Stock Order Values </div> </div>			
Issue Unit	<input style="width: 80%;" type="text" value="1 Boat"/>	Min stock	<input style="width: 80%;" type="text" value="1"/>
		Max stock	<input style="width: 80%;" type="text" value="5"/>
Issue Unit Cost	<input style="width: 80%;" type="text" value="£ 150.00"/>	In stock	<input style="width: 80%;" type="text" value="0"/>
Order status :			
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid gray; padding: 5px; width: 20%;">Issues</div> <div style="border: 1px solid gray; padding: 5px; width: 20%;">Receipts</div> <div style="border: 1px solid gray; padding: 5px; width: 20%;">Orders</div> <div style="border: 1px solid gray; padding: 5px; width: 20%;">Balance</div> </div>			

Path: Main screen > Stocks > Set-up > Stocks

Stock items are linked to their suppliers by selecting the appropriate supplier from the pop-up list activated by clicking on the small arrow button alongside the supplier field.

To add, view or edit a stock Item click on the 'stocks' button in the stocks set-up screen. To view or edit a Stock Item, double click on the required record in the resultant 'Stocks List' and this will open the appropriate stock item record which can then be viewed or amended.


To add new stocks click once on the 'New Item' button to launch the stock Item record then type in the relevant details.

If you wish to print a list of stocks select those you are interested in by highlighting them in the list and reduce to your selection then click the 'print' button. A list of stocks with names, addresses and contact numbers of the supplier will then be printed.

Stocks - Ordering

0 selected items of 0 items - ITEMS BELOW STOCK LEVEL

Item	Supplier	Stock	Min	Max	Order	Unit	Increase
Glass bottomed boots	Fawltty Towers Plc	0	1	5	5	1 Boot	5

 Generate orders for the 1 displayed item?

Print

Reduce to selection
Restore List

Generate Order

ORDER RECORD

Supplier: Fawltty Towers Plc Address: Flowery Twats House
 Order status: Building Cliff Top
 Order number: 000100 Torquay
 Devon

Items from this supplier

Items from supplier	Stock	Minimum	Ur

Items in this order

Items in order	Quantity
Glass bottomed boots	5

Drag items from one list to the other

Print

Ordered On: 11/5/98
Received On: 00/00/00

Path: Main screen > Stocks > Order Stock

To place an order for a stock item and print out the order request, first fill in the details in the above screens. When you click the green (v) button the order will be saved.

When you exit the 'order record', you will be presented with a list of Stock either on order or waiting to be ordered. Click the 'print' button and the stock order will be printed. The design of the purchase order can be modified to suit each laboratory.

Stocks - Receive

[illegible][illegible]

Path: Main screen > Stocks > Receive Stock

When stock is received into the laboratory click the 'Receive Stock' button. This will give you a list of suppliers from whom you have ordered some stock. Select the relevant item by double clicking on the order number for that item in the list. This will open the 'Order Record' for that particular order. The order may have only one item (as shown), or it may have many items some that may not have been received in a particular delivery.

If all the stock from a particular order is received in one delivery, your stocks records can be updated by clicking on the 'Receive all' button on the Order Record.

If however you receive only part of the order, identify the elements that you have received, by placing the cursor in the field of the order record entitled 'This delivery' and type in the quantity received.

Stocks - Issue

[illegible]

STOCK ITEM ISSUE			
Item Name	<input type="text" value="Glass bottomed boots"/>		
Catalog Name	<input type="text" value="Glass bottomed boots"/>	Catalog number	<input type="text" value="FT 010"/>
Supplier Name	<input type="text" value="Fawltly Towers Plc"/>		
Telephone No.	<input type="text" value="01234 567890"/>	Contact Name	<input type="text" value="Basil Tgm Detective"/>
Stock Details			
<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> Stock Issue Values </div> <div style="display: flex; justify-content: space-between;"> <div>Issue Unit <input type="text" value="1 Boat"/></div> <div>Min stock <input type="text" value="1"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Max stock <input type="text" value="5"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Issue Unit Cost <input type="text" value="£150.00"/></div> <div>In stock <input type="text" value="3"/></div> </div> </div>		<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> Stock Order Values </div> <div style="display: flex; justify-content: space-between;"> <div>Order Unit <input type="text" value="1 Boat"/></div> <div>How many of the issue units are there in an order unit?</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Issue/Order ratio <input type="text" value="1"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Order Unit Cost <input type="text" value="£100.00"/></div> </div> </div>	
Order status :			
<div style="display: flex; align-items: center;"> <div style="width: 150px;">ISSUE</div> <div style="flex-grow: 1;"> <div style="display: flex; align-items: center;"> <div style="width: 150px;">Issue quantity</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">1</div> <div style="margin: 0 5px;">x</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">1 Boat</div> </div> <div style="margin-top: 10px;"> To which section? <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Bacteriology Biochemistry BONE MARROW Coagulation Haematology Histology <div style="background-color: #000080; color: white; padding: 2px;">Pathology General</div> Transfusion Virology </div> </div> </div> </div>			

X
 CANCEL

✓
 OK

Path: Main screen > Stocks > Issue Stock

In order to maintain records of your stock usage when stock is issued from the store it is assigned to a section or department of your laboratory.

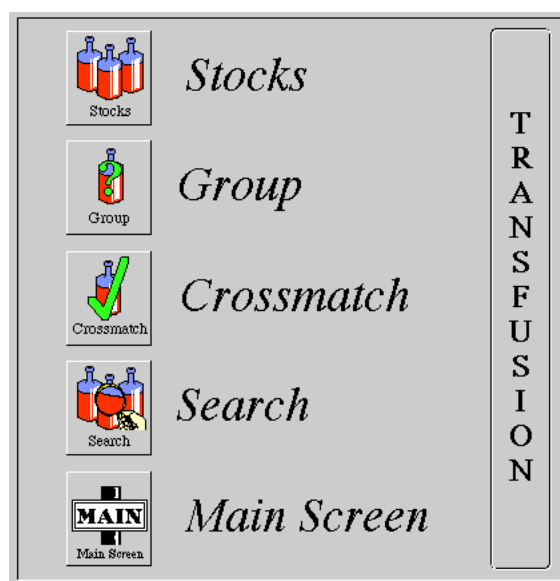
To issue stock to a section first identify the required item by clicking on the 'Issue Stock' button in the stocks module. This will launch the 'Stock Item Search' window from where you select the item of stock you wish to issue.

Double click the item you require to open the 'Stock Item Issue' screen.

To issue the selected stock to the relevant section or department firstly enter the quantity to be issued in the 'Issue quantity' window then select the appropriate section from the pop-up list.

If you run a stores ordering system in your laboratory, the stock that is required in any department can be selected from the Issue module. This will flag on the stock item list, then the store supervisor can reduce the list to that stock which is to be issued, and print an issue list displaying those items required by each section.

Transfusion Main Menu







Path: Main screen > Transfusion

The transfusion menu screen will appear when you click on the transfusion button on the main Screen.

From this menu one click of the button will launch the desired process and you are ready to start inputting data into your Isis transfusion module or extracting information from it.

Blood Stocks

BLOOD STOCK IN	
Code <input type="text" value="1114441"/> <input type="text" value="111444B1"/> 	Expiry Date <input type="text" value=""/> Sunday, August 26, 2001
Type Fresh Frozen Plasma (CPDA1)  <input checked="" type="checkbox"/>	Group  <input type="checkbox"/> AB Rh D Negative
Centre British Plasma Laboratory  <input checked="" type="checkbox"/>	

Dose:
 Comment:

The screenshot displays the 'xBlood' application window, specifically the 'BLOOD STOCK II' section. The main window has a title bar 'xBlood' and a menu bar with 'File', 'Edit', 'View', and 'Help'. The 'BLOOD STOCK II' section contains several input fields: 'Stock Code' (123456), 'Entered Date' (11/5/98), 'Expiry Date' (26/8/98), 'Group' (O Pos), 'Category' (Blood), and 'Type' (Whole blood (CPDA1)). A 'Comment' field contains the text 'Autologous Unit from Mrs Jersey Wren, Hosp No. 987654F'. A 'Standard' button is at the bottom left. A 'Choices for xBlood_Types' dialog box is open on the right, showing a list of blood types: 'Blood', 'Plasma', 'Platelets', and 'Other'. The 'Blood' option is selected. The dialog box has 'Cancel' and 'Modify' buttons.

BLOOD STOCK II

Stock Code: 123456 6 characters maximum

Entered Date: 11/5/98

Expiry Date: 26/8/98

Group: O Pos

Category: Blood

Type: Whole blood (CPDA1)

Comment: Autologous Unit from Mrs Jersey Wren, Hosp No. 987654F

Choices for xBlood_Types

- Blood
- Plasma
- Platelets
- Other

Cancel Modify

Standard

CANCEL OK

BLOOD					PLATELETS				
Group	Lab	Screen	Total		Group	Lab	Screen	Total	
A Neg				▲	A Neg				▲
A Pos					A Pos				
AB Neg					AB Neg				
AB Pos					AB Pos				
B Neg					B Neg				
B Pos				B Pos					
O Neg		1	1		O Neg				
O Pos		1	1	▼	O Pos				▼

PLASMA					OTHER				
Group	Lab	Screen	Total		Type	Lab	Screen	Total	
A Neg				▲					▲
A Pos									
AB Neg		1	1						
AB Pos									
B Neg									
B Pos									
O Neg									
O Pos				▼					▼

Add

Return

Transfuse

Dispose

Fate

Chargers

OK

[illegible]

Path: Main screen > Transfusion > Stocks

When blood stocks are entered into the system their details are displayed in the blood bags stock lists. If you wish to see more details about a specific product, double click on that product and the details list will launch.

This detailed list can be sorted by clicking on the titles at the top of the columns. For example you may wish to sort the list by date of expiry so that you can see which bags should be used first. The list can be reduced to a specific selection and printed if required.

Further details of the fate of an individual unit can be seen by clicking on the 'fate' button.

Blood Stock In - Details

BLOOD STOCK IN

Code: 1114441
11144481

Expiry Date: Sunday, August 26, 2001

Type: Fresh Frozen Plasma (CPDA1)

Group: AB

Rh D Negative: ☒

Centre: British Plasma Laboratory

Dose: 1

Comment: Order for Jim Smith Hosp No. 123456X

Non standard

CANCEL OK

BLOOD STOCK IN

Stock Code: 123456 (6 characters maximum)

Entered Date: 11/5/98

Expiry Date: 26/8/98

Group: O Pos

Category: Blood

Type: Whole blood (CPDA1)

Comment: Autologous Unit from Mrs Jenny Wren, Hosp No. 987654F

Standard

CANCEL OK

Choices for xBlood_Types

- Blood
- Plasma
- Platelets
- Other

CANCEL Modify

Path: Main screen > Transfusion > Stocks > Add

To add new stock into the database open the add stocks screen and bar-code in the relevant information from the blood product label on the bag. The bar-code to be entered will be highlighted in RED on screen and when the information has been entered and accepted it will automatically tab to the next field.

If you do not have access to a bar-code reader, all the information can be entered manually either by typing from the keyboard or by selecting the relevant details from the appropriate pop-up list. The pop-up lists are activated by clicking and holding on the small boxes with arrows located beside the bar-code icon in each section of the screen.

Blood Stocks - Disposal

Select the Blood Bag

Bag ID	Group	Type	Expiry Date	Patient
111444B1	AB Neg	Fresh Frozen Plasma (C)	26/08/99	
111444P1	O Neg	Red Blood Cells (CPDA)	23/06/98	

Cancel Select

Path: Main screen > Transfusion > Stocks

When a unit of blood or blood products is entered into Isis it will remain on the Stock register until such time as the user indicates when and how it is disposed of.

Units that have been issued to a patient are tagged as 'issued'. If the unit is subsequently returned to the Bank, click the 'return' button and either type in or bar-code the unit back into stock. This will change the fate of that unit from 'issued' back to 'in stock'.


If the unit of blood is transfused click on the 'transfuse' button and again type in or bar-code in the unit ID number. This will update the fate to show that the unit has been transfused to the patient to whom it was issued.

If the unit is disposed of in some other way e.g. returned to NBTS, click the 'dispose' button and enter the unit ID number. You may also wish to add a comment to describe the disposal of the unit. Comments can also be added in the other disposal screens.


Blood Stocks - Fate

[illegible]

BLOOD STOCK			
Stock code	<input type="text" value="123456"/>	Entered	<input type="text" value="11/05/98"/>
		Expired	<input type="text" value="26/08/98"/>
Group	<input type="text" value="O Rh D Positive"/>	Issued	<input type="text" value="11/05/98"/>
Type	<input type="text" value="Whole blood (CPDA1)"/>		
Comment	Autologous Unit from Mrs Jenny Wren , Hosp No. 987654F		
Fate	<ul style="list-style-type: none"> ● 11/05/98 - 20:10:12 => Received. ● 11/05/98 - 20:25:58 => Assigned to Wren, Jenny (987654F / 12345). ● 11/05/98 - 20:26:06 => UnMatched Wren, Jenny (987654F / 12345). ● 11/05/98 - 20:27:07 => Issued For Wren, Jenny (DOB 21/12/55) (987654F / 12345). 		



Print



Path: Main screen > Transfusion > Stocks > Fate

The fate list shows details of all the blood products that have been entered into the Isis database. This information can be used for a variety of purposes to aid the laboratory in tracking units of blood from when they enter the laboratory until they are finally used.

By double clicking on an individual stock item another screen will open showing the full history of that unit.

The fate list can be sorted by clicking on the header of the column by which you wish to sort your list. The list can be reduced to a specific selection and printed as required to produce information on the status of units in your blood bank.

Blood Grouping

[illegible]

MICROTITRE & DIAMED BLOOD GROUPING									
Surname		Wren		First names		Jenny			
Hosp No		987654F		Lab No		12345			
Test		Blood Group						IAGT	
		0003332200							
Anti A	Anti B	Anti AB	A1 Cell	A2 Cell	B Cell	O Cell	Anti D1	Anti D2	Auto
Group		O Pos		Ab screen		Positive			
<input type="radio"/> Microtitre <input type="radio"/> Diamed <input checked="" type="radio"/> Microtitre & Diamed <input type="radio"/> Papd		Previous		0 Pos				<input checked="" type="checkbox"/> CANCEL <input checked="" type="checkbox"/> OK	

Path:- Main screen > Transfusion > Grouping

When you launch the grouping module you will be presented with a list of outstanding requests for blood groups. By double clicking on a selected record, you will launch the blood grouping screen that has been specifically designed for your laboratory.

The example above is a combination of one row of a 96 well microtitre tray for the grouping and a 'Diamed card' for checking atypical antibodies. The reactions observed can be entered onto this screen either by clicking the buttons located on the wells or the reagent icons, or by pressing the function keys at the top of the keyboard. F1 to F12 are mapped to the respective wells of the microtitre tray. The first click will record a value of '0' or 'negative', by clicking again, the pictorial graphic will toggle through '+' '++' and '+++'. The strength of reaction is displayed in the small box above the wells and the blood group is calculated

automatically, once all the reactions are recorded and the user has clicked on the 'Group' window.

The antibody screen can be entered either by clicking on the respective wells or icons or by clicking on the IAGT button and selecting from the pop-up list.

Crossmatching

DIAGNOSTIC TEST REQUEST

Hosp No: 987654F Lab No: 12345 Customer: Name: Baldwin, David (Mr)

Surname: Wren Forename: Jenny Sex: Female DoB: 21/12/55 Date/Time: 12/5/98 Received: 11/5/98

Crossmatch required

Surname: Wren First names: Jenny Lab No: 12345

Required

Number of units: 1 Date: 11/5/98 Billing: xrm 1 unit

Request charge: £2.50 Number of tests: 2

CROSSMATCH

Surname: Wren First names: Jenny Hosp No: 987654F Lab No: 12345 Group: O Pos Antibody screen: Positive Antibodies: Anti Fya

Units Tested for this Patient

Pack ID	Status	Comments
123456	Unmatched	Autologous Unit from Mrs Jenny Wren

Req'd: 1 Passed: 1

Crossmatched By

DJB

Path: Main screen > Transfusion > Crossmatch

When a request for a crossmatch has been entered into Isis you will be asked for the number of units required and the date on which they will be needed. Outstanding crossmatches will then be stored on the list which is activated by clicking on the 'Crossmatch' button in the Transfusion section.

Select the crossmatch you require by double clicking on the relevant request in the 'Outstanding' list and it will open the crossmatch entry screen. This screen will display the patient demographics and any atypical antibodies the patient is known to have and will display the number of units required. You can issue more units than were originally requested or add to this request at a future date by clicking on the 'Add to Previous' button on the original list.

Selected units can be typed or bar-coded in and will be displayed in the list, highlight the units you wish to pass and click the 'Pass' button. Alternatively units can be 'Failed' or 'issued un-crossmatched (UXM)' in the same way. Click on 'Issue units' once you have selected and passed (or UXM'd) the required units and Isis will print the pack labels and issue notes to your own design.

If a patient has had previous requests and there has been an antibody detected, this information will be displayed on all subsequent requests for Grouping or Crossmatching.

Transfusion Search

TRANSFUSION SEARCH

Patients

Surname

Wren

First Names


J

Hospital No

Lab No

Check for exact match

☐



Sound like...

Units

Unit No

Entry Date from

00/00/00


Entry Date to


00/00/00

Group

Product

Centre





BLOOD STOCK

Stock code

123456

Entered

11/05/98

Expired

26/08/98

Group

O Rh D Positive

Issued

11/05/98

Type


Whole blood (CPDA1)






Comment

Autologous Unit from Mrs Jenny Wren , Hosp No. 987654F

Fate

- 11/05/98 - 20:10:12 => Received.
- 11/05/98 - 20:25:58 => Assigned to Wren, Jenny (987654F / 12345).
- 11/05/98 - 20:26:06 => UnMatched Wren, Jenny (987654F / 12345).
- 11/05/98 - 20:27:07 => Issued For Wren, Jenny (DOB 21/12/55) (987654F / 12345).



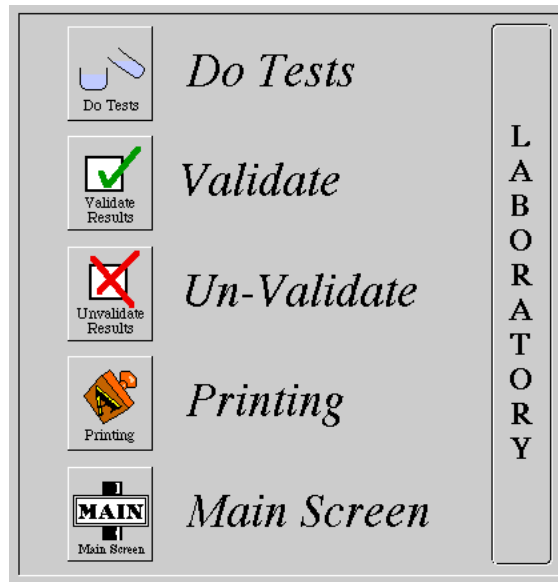


Path: Main screen > Transfusion > Search.

You can search your Isis transfusion module in two ways.

1. You can search for a specific patient or patients from a customer to see how many crossmatches or blood groups have been sent from the selected source. This search can also be date modified if you require information for a selected period.
2. You can search your database for a specific unit of blood or a selected group of blood stock (again this is date modifiable). The resultant search will display the fate of the selected blood product so you can see and print out the history of a specific blood product or group of products.

Laboratory Main Menu



Path: Main screen > Laboratory

The laboratory menu screen will appear when you click on the laboratory button on the main screen.

From this menu one click of the button will launch the desired process and you are ready to start inputting data into your Isis database or extracting information from it.

The laboratory screen is also the area in which validation and printing are accessed.

Result Entry - Bacteriology

[illegible]

BACTERIOLOGY RESULT									
Name		David		Lab No		222		Clinical Notes	
Received		11/5/98		Hospital No		x1234		Specimen	
								Urine	
Macroscopic		Microscopy				Chemistry			
<div style="border: 1px solid black; padding: 2px;"> <div style="text-align: center;">Select</div> <div>Straw coloured moderately turbid fluid</div> </div>		<div style="border: 1px solid black; padding: 2px;"> <div style="text-align: center;">Microscopy Result</div> <div>A:Urine RBC Nil</div> <div>B:Urine WBC ++</div> <div>C:Others (B) Nil</div> <div style="text-align: center;">Select</div> <div>Ova, cysts and parasites NOT seen.</div> </div>				<div style="border: 1px solid black; padding: 2px;"> <div style="text-align: center;">Chemistry Result</div> <div>A:Urine pH 7.5</div> <div>B:Urine Glucose (H) Nil</div> <div>C:Urine Proteins (H) ++</div> <div>D:Urine Blood ++</div> <div style="text-align: center;">Select</div> <div></div> </div>			
Quantity		Organisms				Comment			
++		Escherichia coli				<div style="text-align: center;">Select</div> <div>Antibacterial substances DETECTED</div>			

Add antibiotic sensitivities		
Escherichia coli		
Antibiotic	Sensitivity	Report?
Ampicillin	Sensitive	Yes
Trimethoprim	Sensitive	Yes
Augmentin	Sensitive	Yes
Nitrofurantoin	Sensitive	Yes
Cephalexin	Sensitive	<input type="checkbox"/>
Gentamicin	Resistant	Yes

+
Add

X
CANCEL

✓
OK

Path: Main screen > Diagnostic > Laboratory > Do Tests > Bacteriology

A bacteriology result is made up of a series of interrelated fields. By defining a test as bacteriology, when selected this test will appear on the outstanding bacteriology list. You do not have to request macroscopy, microscopy or comment as these fields are always available to a bacteriology specimen. If however you require specific microscopy tests (e.g. WBC's or RBC's etc.), or you wish to enter bacteriological chemistry results (e.g. Dipstix), you will need to define each element as a separate test. These separate tests can then be collated into profiles and selected as a group at request entry.

When all the results are entered click the green [v] button, you will be asked if you wish to 'Validate Result?' click 'Yes' and they will be sent for printing. Click 'No' and the entered results will be saved but the request will remain on the outstanding list.

Laboratory Tests Selection

RESULTS ENTRY

Special

Bacteriology Diff Counter Send Aways

Analysers

Abbott AxSym All Analysers

Beckman CX5

Cell-Dyn 160

Medac bilin

Monarch

Analysertidy

Worklist Selector

Section	Number	Urgent
Biochemistry	0	0
BONE MARROW	0	0
Coagulation	0	0
Haematology	0	0
Histology	0	0
Transfusion	0	0
Virology	5	0

Search

Done

TESTS REQUIRED

Search criteria

Lab number 222

OR

Worklist Number

☒ Incomplete only

CANCEL OK



Path: Main screen > Diagnostic > Laboratory > Do Tests

The laboratory test selection screen is divided into three parts.

- Part 1. 'Special' allows access to laboratory result entry for disciplines that do not easily lend themselves to a rapid manual list entry type of result. In bacteriology for example, there is generally more than one element to each result, some numerical and some textual.
- Part 2. 'Worklist' is for manually entering numeric or textual results into your database. It is divided into the 'Sections' that you define for your laboratory to make the result entry worklists more manageable. Generally, these worklists will contain all the requests for each section that are not handled automatically by interfaced analysers.

Part 3. 'Analysers' allows you access to results and requests that have been assigned to your various automated analysers. Depending on the way in which an analyser handles data, you can view requests that are awaiting results or the results that have already been sent from the analyser. In some cases you are able to modify results, suppress requests being sent to the analyser or send selected results for retest.

Do Tests - Manual Entry

TESTS REQUIRED	
Search criteria	
Lab number	<input type="text"/>
OR	
Worklist Number	<input type="text" value="1037"/>
<input type="checkbox"/> Incomplete only	
<div><div> CANCEL</div><div> OK</div></div>	

[illegible]

Path: Main screen > Diagnostic > Laboratory > Do Tests > Worklist

Results can be entered manually into Isis in a variety of different ways. To activate the manual entry lists double click on the relevant section of the worklist selector in the 'Result Entry' screen. To enter a numerical value, double click in the result field of the relevant record then type in the value and hit the 'Return' or 'Tab' key to move the cursor to the next result in the list. If the entered result is outside your predefined 'Validation' limits, a 'Validation Alert' screen will launch to alert the user to the fact. You can choose to accept the entered value by clicking 'OK' or to reject it and re-type the correct value by clicking 'Cancel'.

Result entry

Comments

Add to request comment 222

Create an additional stand alone comment

Add a comment to this test result Haemoglobin

Comment

Select

CANCEL

OK

TEXT RESULT ENTRY

Lab Number 222

Patient Baldwin, David

Text Result for :

Mary had a little lamb, dee dum dee dum dee dum
Titres of less than 80 are generally NOT significant

Select

Word Process

CANCEL

OK

WORD PROCESSED RESULT

Lab Number 222

Patient Baldwin, David

Test

File Edit Font Style Find Format

Document

Sample ID : 222

Received : 11/5/98

Bacteriology Report

Clinical History

Macroscopic Description

Microscopic findings

Diagnosis

Recommendations

Insert template

Print

Results that all require the same result e.g. 'Negative' can be selected by dragging the mouse pointer over the required requests to highlight them and then clicking on the 'Reduce to Selection' button at the bottom of the screen to leave only the selected records. These can then all be stamped with the same result by clicking on the 'Stamp' button and choosing the required stamp from the predefined pop-up list. Note that if the required requests for stamping are not consecutive in the list, the list can be sorted by clicking on one of the column headers, e.g. 'Test', which will group all like tests together, then by dragging the mouse pointer over those requests for the result stamp to be added and again clicking on the 'reduce to selection' button at the bottom of the screen, you will produce a list with only one type of test. If, from this list, not all the requests require the same stamp, you can select those which do require the stamp by highlighting the whole list, then deselecting the unwanted requests by clicking on them 'once' whilst holding down the 'apple' key on a Macintosh keyboard, or the 'Ctrl' key on a PC keyboard. Again, when you have finished making your selection, click on the 'reduce to selection' button, then apply the relevant stamp.

Predefined comments, or free text comments can be added to a single result by highlighting the required request in the list, then clicking on the 'Add Comment' button at the bottom of the screen. This will launch a screen into which your result comments can be added.

There are three areas to which the comment can be applied.

1. 'Add to request' which will produce a comment at the foot of the printed report, which generally refers to the whole request, for example, 'Specimen NOT suitable for analysis'.
2. 'Create an additional stand alone comment' which will produce a comment printed as a separate test of a selected type e.g. haematology comment. These comment types can be set to print along with other results from the same section.
3. 'Add to test' which will produce a comment referring directly to the test in question and is used where a simple numerical value is insufficient, for example, you may wish to stamp a Rubella result of Negative with the comment 'Not Immune. Suggest Booster'.

Individual results can also be entered and validated at the same time by clicking on the 'Number Entry' button at the bottom of the 'Result Entry' screen. This will launch a dialogue box which asks you for the laboratory number required, click 'OK' and the result entry screen (Fig. 6) will launch. Results are entered into this screen by clicking the mouse pointer in the appropriate field then typing in the required result. If an 'X' is clicked into the validate box, the results will be automatically validated and will print as soon as you exit the 'Number Entry' screen.

Comments	
Add to request comment	222
<div> <input type="text"/> <div> <div>▲</div> <div>▼</div> </div> </div>	
Create an additional stand alone comment	<div> <div>Haem comment</div> <div>Chemistry comment</div> </div> <div> <input type="text"/> <div> <div>▲</div> <div>▼</div> </div> </div>
Add a comment to this test result Haemoglobin	<div> <input type="text"/> <div> <div>▲</div> <div>▼</div> </div> </div>
<div> <div>Comment</div> <div> <div>▼</div> <div>Select</div> <div>▲</div> </div> </div>	
<div> <div> <div>✗</div> <div>CANCEL</div> </div> <div> <div>✓</div> <div>OK</div> </div> </div>	

Manually entered results are typed into the relevant field under the result column. Word processed or textural results will launch the Isis word processor screen.

Text Result Entry

The screenshot shows a window titled "TEXT RESULT ENTRY". At the top, there is a yellow horizontal line. Below it, the title "TEXT RESULT ENTRY" is centered. The window contains two input fields: "Lab Number" with the value "222" and "Patient" with the value "Baldwin, David". Below these fields is a text area labeled "Text Result for :". The text area contains the text: "Mary had a little lamb, dee dum dee dum dee dum
Titres of less than 80 are generally NOT significant". To the right of the text area is a vertical scrollbar. At the bottom of the window, there is a "Word Process" button on the left, a "Select" button in the center, and "CANCEL" and "OK" buttons on the right. The "CANCEL" button has a red X icon, and the "OK" button has a green checkmark icon.

The screenshot shows a window titled "WORD PROCESSED RESULT". At the top, there is a red horizontal line. Below it, the title "WORD PROCESSED RESULT" is centered. The window contains two input fields: "Lab Number" with the value "222" and "Test" with the value "Bacteriology Report". Below these fields is a text area labeled "Text Result for :". The text area contains the text: "Sample ID : 222 Received : 11/5/98
Bacteriology Report
Clinical History
Macroscopic Description
Microscopic findings
Diagnosis
Recommendations". To the right of the text area is a vertical scrollbar. At the bottom of the window, there is an "Insert template" button on the left, a "Print" button on the right, and a row of icons in the center: a trash can, a left arrow, a right arrow, a red X, and a green checkmark.

Path: Main screen > Diagnostic > Laboratory > Do Tests > Worklist > Select

If a test type is defined as 'Text' when you attempt to enter a result into the result field of your worklist the text entry layout will appear. This will allow you to enter a result of up to thirty two thousand characters. However, this text editor does not have any formatting facility and will use the default font and size of your computer. If a more sophisticated text type result is required, click on the 'Word Process' button and the Isis word processor screen will launch. This will allow you to format your textural result in any way you wish with the full power of a word processor.

If a common report style is to be used for all results of a certain type report templates can be defined (See Set-up Canned Text) and applied to your word processor. This greatly speeds up your result entry at the same time keeping all your results in the same format.

Differential WBC Counter

DIFFERENTIAL

Lab Number:

Subject:

Sender:

Clinical:

Film Report Select

Hb	10.1
RBC	3.48
PCV	30.3
MCV	87
MCH	29
MCHC	
RDW	14.3
MPV	
PLT	105
ESR	

	Auto x10 ⁹	Manual x10 ⁹	%
WBC	5.4		
Gran	4.6		
Lymph	0.6		
Mono	0.2		
Neut			
Eos			
Baso			
Myelo			
Meta			
Pro			
Blast			
NRBC			
Other			

Analysers Morphology

Auto
Accept
Manual
Accept

Show Counter

CANCEL

Path: Main screen > Diagnostic > Laboratory > Do Tests > Diff Counter



The differential WBC counter facility is provided to enable the user to manually override or augment the differential counts gathered automatically from an analyser. It also allows you to enter a film report either by manually typing in the comments you wish to report, or by picking predefined comments from a pop-up list.

Some analysers will offer their own comments on a blood picture based on the parameters of a count that exceed pre-set conditions. These comments will be displayed in the 'Analysers Morphology' screen and can be reported or deleted as required. The analyser comments are also displayed at validation for counts that do not require a manual differential or film report, and these can again be reported or deleted at this stage before printing.

Lab No 15503				
Gran	Lymph	Mono	Neut	
0	0	0	0	
Eos	Baso	Mgelo	Meta	
0	0	0	0	
Pro	Blast	NRBC	Other	
0	0	0	0	
Total Count				0
Gran	Lymph	Mono	Neut	
7	8	9	-	
Eos	Baso	Mgelo	Meta	
4	5	6	+	
Pro	Blast	NRBC	Other	
1	2	3	0	
Enough	More	<input checked="" type="checkbox"/> <input type="checkbox"/>		
Cancel	Reset			
Oops!				

To assist differential count entry an integrated counter is available the keys of which can be mapped to particular cell types in the user preferences. Accessed via the 'Diff counter' button it will accept 100 entries as a default and automatically calculate percentages and adjust the analyser cell counts.

Results - Number Entry

TESTS REQUIRED	
<p align="center">Search criteria</p> <p>Lab number <input type="text" value="222"/></p> <p>OR</p> <p>Worklist Number <input type="text"/></p> <p align="center"><input checked="" type="checkbox"/> Incomplete only</p>	
 CANCEL	 OK

[illegible]

Path: Main screen > Diagnostic > Laboratory > Do Tests > Select

'Number Entry' of results allows you to enter results, or overwrite results that are already in the system. When you call up the request by laboratory number you will be presented with a list of all the tests requested on that sample.

The advantage of the number entry screen is that it allows you to see all the tests requested on one laboratory number on one screen. This method is not recommended for results that require more sophisticated handling like bacteriology results with sensitivities.

Validation of haematology results

[illegible]

HAEMATOLOGY REPORT																																																																																																																																							
Lab Number: <input type="text" value="222"/>			Patient: <input type="text" value="Baldwin David"/>		Clinical Notes <input type="text" value="11/5/98 : Nodule on nasal nape"/>																																																																																																																																		
Date of Birth: <input type="text" value="26/08/56"/>			Age: <input type="text" value="41y"/>		Customer: <input type="text" value="Baldwin"/>																																																																																																																																		
Sex: <input type="text" value="Male"/>																																																																																																																																							
					Film <input type="text" value="Film consistent with Iron deficiency"/>																																																																																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th colspan="2" style="text-align: center;">x10⁹/l</th> <th colspan="2" style="text-align: center;">%</th> <th colspan="2" style="text-align: center;">Range</th> </tr> </thead> <tbody> <tr> <td>Hb</td> <td>14.4</td> <td>15-18</td> <td>WBC</td> <td>12</td> <td></td> <td>4-11</td> <td colspan="2"></td> </tr> <tr> <td>RBC</td> <td>4.55</td> <td>4.5-6.5</td> <td>Gran</td> <td>8.2</td> <td></td> <td>3-9</td> <td colspan="2"></td> </tr> <tr> <td>PCV</td> <td></td> <td></td> <td>Lymph</td> <td>3.1</td> <td></td> <td>1.5-4</td> <td colspan="2"></td> </tr> <tr> <td>MCV</td> <td>87</td> <td>76-96</td> <td>Mono</td> <td>0.5</td> <td></td> <td>0.2-0.8</td> <td colspan="2"></td> </tr> <tr> <td>MCH</td> <td>32.3</td> <td>27-32</td> <td>Neut</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>MCHC</td> <td></td> <td></td> <td>Eos</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>RDW</td> <td>10.5</td> <td>10-21</td> <td>Baso</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>MPV</td> <td></td> <td></td> <td>Myclo</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>PLT</td> <td>189</td> <td>150-400</td> <td>Meta</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>ESR</td> <td></td> <td></td> <td>Pro</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Blast</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td></td> <td>NRBC</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Other</td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> </tbody> </table>													x10 ⁹ /l		%		Range		Hb	14.4	15-18	WBC	12		4-11			RBC	4.55	4.5-6.5	Gran	8.2		3-9			PCV			Lymph	3.1		1.5-4			MCV	87	76-96	Mono	0.5		0.2-0.8			MCH	32.3	27-32	Neut						MCHC			Eos						RDW	10.5	10-21	Baso						MPV			Myclo						PLT	189	150-400	Meta						ESR			Pro									Blast									NRBC									Other					
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Path: Main screen > Diagnostic > Laboratory > Validate > (Haematology)

From the validation selector click on the haematology button and a list of outstanding haematology for validation will launch. Double click the desired request and it will launch a diagrammatic display of the complete haematology result.

Validation of bacteriology results

[illegible]

BACTERIOLOGY RESULT					
Name Baldwin		David	Lab No 222	Clinical Notes	Specimen
Received 11/5/98		Hospital No x1234		11/5/98 : Nodule on nasal nape	Urine ▲▼
Macroscopic		Microscopy		Chemistry	
Select ▼▲		Microscopy Result A.Urine RBC Nil ▼▲ B.Urine WBC ++ ▼▲ C.Others (B) Nil ▼▲ Ova, cysts and parasites NOT seen.		Chemistry Result A.Urine pH 7.5 ▼▲ B.Urine Glucose (M) Nil ▼▲ C.Urine Protein (M) ++ ▼▲ D.Urine Blood ++ ▼▲	
Straw coloured moderately turbid fluid					
Quantity		Organisms		Sens Comment	
++	Escherichia coli	✓		Antibacterial substances DETECTED	

Path: Main screen > Diagnostic > Laboratory > Validate > Bacteriology

From the validation selector click on the bacteriology button and a list of outstanding bacteriology for validation will launch. Double click the desired request and it will launch a facsimile of the bacteriology result entry screen for that request.

If an organism has attached antibiotics, there will be a green tick under the 'Sens' column of the report. If you click on this green tick it will open the list of antibiotics that have been tested. At this stage you have the ability to suppress the reporting of any or all tested antibiotics, or indeed, you could add more antibiotics to be tested and return the request to the lab for retest by clicking the retest button. Comments can also be added at validation.

When you are happy with the result, click 'Validate' or 'Validate and Next' to send it for printing.

Validation of numerical results

OUTSTANDING VALIDATION

SECTION Haematology
TESTS 30 **URGENT** 0

Number	Urgent	Surname	First name	Date	Test	Result
7141		Bones	Dem	25/09/96	Hb'	16.8
7141		Bones	Dem	25/09/96	WBC'	15.50
7141		Bones	Dem	25/09/96	RBC'	4.56
7141		Bones	Dem	25/09/96	Platelets'	258
7141		Bones	Dem	25/09/96	HCT'	0.489
7141		Bones	Dem	25/09/96	MCH'	30.5
7141		Bones	Dem	25/09/96	MCHC'	33.2
7141		Bones	Dem	25/09/96	MCV'	97
7141		Bones	Dem	25/09/96	RDW'	12.3
7141		Bones	Dem	25/09/96	Neutrophils'	0
7141		Bones	Dem	25/09/96	Lymphocytes'	0
7141		Bones	Dem	25/09/96	Monocytes'	0
7141		Bones	Dem	25/09/96	Basophils'	1.39
7141		Bones	Dem	25/09/96	Myelocytes'	4.03
7141		Bones	Dem	25/09/96	Promyelocytes'	8.83
7141		Bones	Dem	25/09/96	Blasts'	0
7141		Bones	Dem	25/09/96	Comment	
7141		Bones	Dem	25/09/96	NRBC - Abs'	0
7141		Bones	Dem	25/09/96	Metamyelocytes'	1.08
7141		Bones	Dem	25/09/96	NRBC/100 wbc's'	0

Print
Add Comment

✓
✓
✓
✓

VALIDATE LIST

✗
✗
✗

RETEST LIST

Reduce to selection

Restore List

Done


Path: Main screen > Diagnostic > Laboratory > Validate

All other tests and haematology if required are validated from the lists of results that appear when you double click on the relevant Section of the validation selector.

Values that fall outside your validation limits will be highlighted in either blue for results below the 'Low' limit or red for results above the 'High' limits. If you wish to send a test back to the laboratory for retesting, highlight the required tests, reduce to that selection then click the 'Retest List' button. Otherwise, click the 'Validate List' button and all results will be sent for printing.

Printing

PRINTING OPTIONS	
REPORTS	LISTS
<input type="button" value="Print now"/> Check for any new results and generate reports.	<input type="button" value="Site report"/> Print a summary of results from a given location.
<input type="button" value="Reprint"/> Reprint any reports from a given date.	<input type="button" value="Telephone results"/> Print a list of completed results from urgent requests.
<input type="button" value="Cumulative"/> Generate a cumulative report of numerical results from a selected individual.	<input type="button" value="Outstanding urgent"/> Print a list of currently outstanding urgent tests.
<input type="button" value="Print stored"/> Print any previously generated reports that have not yet been printed.	
<input type="button" value="Faxnow"/> Fax any requested reports from this machine.	


Done

Path: Main screen > Diagnostic > Laboratory > Printing

Several printing options can be accessed from the laboratory printing button. Many Isis systems employ a dedicated machine acting as a report print server, but for those that do not, report printing is controlled from the above screen. Selecting the 'Print now' button cause the system to search for any requests that have had new results entered and may require printing. A list is then displayed of requests, completed requests displayed in black, incomplete requests in red.

Messaging

MESSAGE CENTRE

Sections

- Section
- Haematology
- Biochemistry
- Histology
- Bacteriology
- Transfusion
- Pathology General
- Virology
- Coagulation

Staff

- Staff member
- Dave Baldwin
- Lo Farnan
- Isis

Message To: Lo Farnan
Not currently logged in

Message Type: Personal message

Subject: Test message

Message

This is a test

☐ Receipt acknowledge

Send message Send and copy

External mail Read messages Sent messages OK

Path: Main screen > Diagnostic > Laboratory > Mail

Isis contains its own internal messaging system which can be used as a mail system if required (see system preferences). Messages may be sent to individuals or to laboratory sections and are composed in the message centre screen. The message recipient is selected from either the section or staff lists and the message subject is entered in the appropriate fields. For messages to individuals a receipt acknowledgement may be requested.

Messages sent to sections are displayed whenever anyone accesses a sectional worklist, for example when doing new tests. This is a suitable vehicle for general reminders.

Messages to individuals are displayed whenever that person logs into Isis and may be read at any time from the message centre. When the mail option is switched on users will receive an automatic notification of new messages on whatever workstation they are logged into and may either read the message at that point or defer.



When a message has been read if a receipt acknowledgement has been requested a message is generated to inform the sender of delivery.

Isis may be set to automatically generate certain system messages such as the automatic notification of flagged subject when new requests or results are entered. The system supports message copies and forwarding and may be linked to the e-mail delivery of request results.

Optionally the Isis message system may be interfaced with an existing internal or internet e-mail account.

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