



## i.Clinical Manager (i.CM)

Clinical information is key to effective patient care.

On a ward or in a clinic, effective access to a patient's medical history and current medications is essential to ensure safe and appropriate treatment. Up-to-date results from the Laboratory and images from Radiology help to support clinical decisions, while clinically approved pathways of care, combined with clinically approved alerts and reminders, help to ensure consistent best practice.

i.Clinical Manager (i.CM) is a powerful information solution that will deliver this information, and more, to the caregiver.

### Order Entry and Results Reporting

Orders are entered into iSOFT Clinical Manager for the currently selected patient using the Order Entry Worksheet and Order Forms. When an order is selected from the Order Browse on the Order Entry Worksheet, the order is entered in the Order Summary window. If additional information is required, an order form tailored to the special information needs of that order displays, prompting the user to enter more details

Orders can be placed individually or defined as Order Sets. These are groups of orders commonly ordered at one time. For example, clinicians often prescribe a standard set of admission of post-surgery orders. Order sets are ordered in the same way as individual orders. If every item in the order set is not required the user can de-select items.

### Entering Orders

The Order Entry Worksheet allows the user to enter orders, view information about an order item and modify or delete an order before it is submitted.

After orders have been selected for the patient, the orders display in the Order Summary window of the worksheet. These orders must be submitted or deleted before moving to another patient's chart or logging off the system.

If an order set or clinical path is selected, the user can deselect any of the items in the set or path and/or change the date for an item.

Patient Name	Admit Date	Admit Time	Visit Reason	New Results	New Orders	To Sign	Acknowledge Results	Check Orders	To Verify	Unack Alerts	Current Location
Lancashire, James	09-Apr-2002	10:20		+	+		+	+			Main X-ray
Buth, Trent	09-Apr-2002	07:00	Multiple Sclerosis		+			+		+	HPI-1EST-2-3
Smith, Mark	16-Aug-2002	19:59	COPD					+			HPI-2WST
Collins, Annie	07-Apr-2002	10:15	Varicose Veins	+	+			+			HPI-Surgical Clinic
Nelson, Marie	06-Apr-2002	16:40	Painful groin			+		+			HPI-Surgical Clinic
Thomas, Carl	03-Apr-2002	16:00	Stroke not spec h...	+	+			+			HPI-Surgical Clinic
Tortar, Gabby Betty	08-Apr-2002	06:21	MVA	+	+			+			HPD-EMG-RESUS
Kalnsak, John Karl	28-Aug-2002	13:26						+			HPD-EMG-VRAY
Taylor, Martin	26-Jun-2002	11:07	Psychosis								Psychiatry
Baldwin, Tracy	09-Apr-2002	07:00	Fracture Right Hiu.		+	+		+		+	Ward 10
Wallace, Michelle	08-Apr-2002	14:20	Fracture Left ulna					+			Ward 10
Buggins, George	03-Sep-2002	16:43	Asthma	+	+	+		+	+		Ward 8-CCU
Sole, Albert John	04-Apr-2002	21:50		+	+			+			Ward 8-CCU
Wayne, John Michael	20-Mar-2002	13:35		+	+			+	+		CT Dept

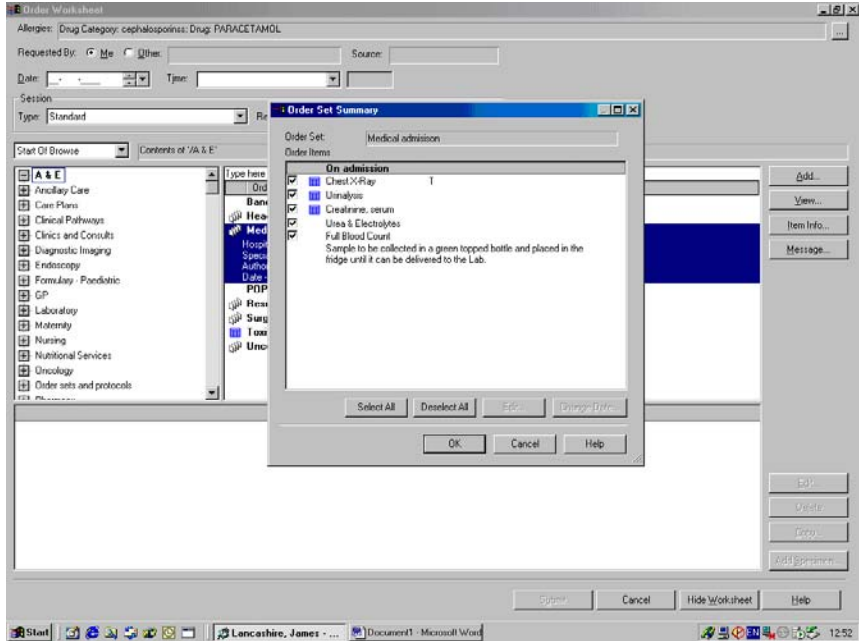
Order entry is fast and efficient and highly configurable to meet the requirements of a wide range of disciplines and processes. The i.CM order entry toolset is highly flexible and allows the creation of custom data capture sets, order sets and care pathways which can be supported by rules derived using Arden syntax.

**The benefits of i.CM**

- Comprehensive order communications and results reporting facility across the trust
- Proven ability to exchange requests and result information from a range of third-party departmental systems
- Enables the division to extend i.CM core to include care pathways, electronic prescribing and medicines administration and clinical data collection

**Order Sets**

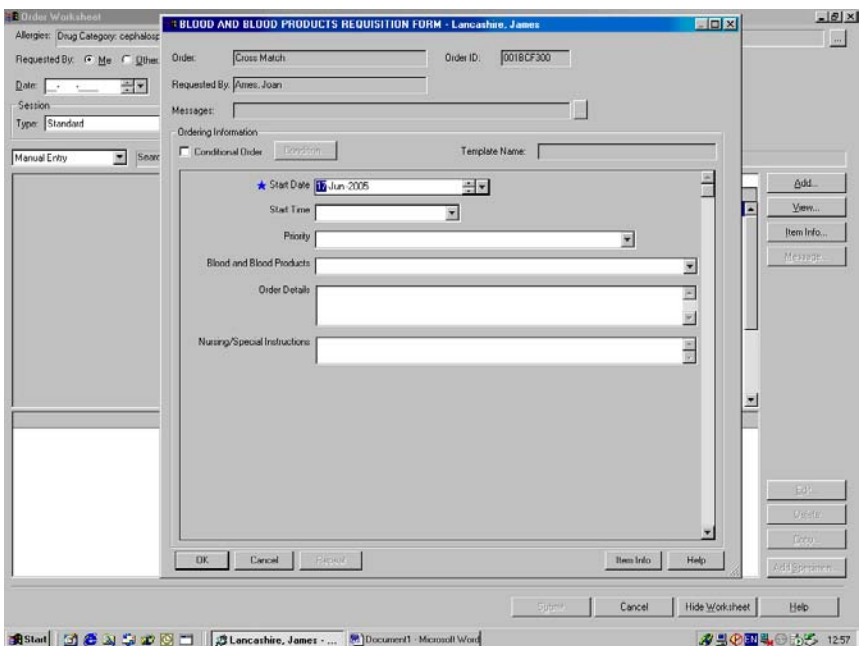
Order sets are groups of orders commonly requested at the same time. For example, clinicians often request a standard set of admission or post-surgery orders. Order sets are ordered in the same way as an individual order. Parts of the order set can be de-selected if every item in the order set is not required.



**Order Forms**

Order information is recorded in order forms. In add or edit mode, the user can enter information required to complete an order. In view mode, the users can view information about an existing order and, subject to the appropriate rights, modify the order. Each type of order has a custom form with entry fields where the order information is entered.

An order form opens only if the order selected requires additional information, e.g dose or date. Other order items are described as a 'pre-filled' order, meaning that all necessary information for the order to be submitted has already been provided.





i.CM's Results Review enables users to quickly access clinical results using text descriptions, figures, graphics and images through both standardised and clinically defined review sets. Results can be viewed in multiple formats, including trend, graph, report by order and summary. Abnormal findings appear highlighted and reference ranges can be included.

Results can be received from any HL7 compatible system and can include transcription and image files.

## Results Viewing

The Results chart section is where clinical results for selected patients can be viewed. It comprises the Display window and the View Control Panel.

- The Display window of the Results chart section displays results in the form of numbers, text and graphs, based on the type of result and the display format selected in the View Control Panel.
- The View Control Panel allows the user to set criteria for displaying results. i.CM uses results filters to show only those types of results that match the filter criteria. A filter enables the user to focus in on selected results by 'filtering out' results that do not meet the filter criteria. For example, if a Radiology filter is chosen, only the results from the Radiology department display.

Results can be viewed by users in a number of different ways.

### This includes:

- All the information contained in a Laboratory report, including the units and patient-specific normal range for a result and any associated order/specimen/result level comments.
- A summary view which flags where in a patient journey results have been received and from which department with the ability to drill down to the detail of each result. This includes options to view by a single episode or for the complete history.
- All investigations for a specified time period for all patients on a particular ward – with scroll options to browse between patient records; all pending investigations; all investigations for a patient; all investigations for patients for whom they are responsible – with scroll options to browse between patient records.
- Results for a Consultant/Team that have not been seen by a clinician – in single patient views with scroll options to move between patients.
- Investigations by service department, e.g. all laboratory investigation results.
- Access to detailed information regarding requested/resulted items, e.g. specimen details.

Date	Test Name	Value	Reference Range	Status
16-Jun-2003 09:00	ESR	16	[3-10]	Final
16-Jun-2003 09:00	Sodium, serum	140	[135-145 mmol/L]	Final
16-Jun-2003 09:00	Potassium, serum	7.9	[3.3-4.9 mmol/L]	Final
16-Jun-2003 09:00	Chloride, serum	102	[96-106 mmol/L]	Final
16-Jun-2003 09:00	Bicarbonate, serum	27.1	[19.0-31.0 mmol/L]	Final
16-Jun-2003 09:00	Glucose, serum	7.4	[3.1-10.0 mmol/L]	Final
16-Jun-2003 09:00	Creatinine, serum	100	[44-141 umol/L]	Final
16-Jun-2003 09:00	OBSEVATION	UREA 3.6 mmol/L	[2.8-7.7 mmol/L]	Final
16-Jun-2003 09:00	C-Reactive Protein, serum	4.3	[0.0-5.0 mg/L]	Final
26-Nov-2004 09:00	Haemoglobin	12.0	[12.0-16.0 g/dl]	Final
26-Nov-2004 09:00	Haematocrit	38.6	[36.0-46.0 %]	Final
26-Nov-2004 09:00	WBC Count	6.2	[4.0-10.0 x10 <sup>3</sup> /L]	Final
26-Nov-2004 09:00	Platelet Count	227	[140-440 x10 <sup>3</sup> /L]	Final
26-Nov-2004 09:00	RBC Count	4.8	[4.0-5.2 x10 <sup>6</sup> /L]	Final
26-Nov-2004 09:00	MDV	87.7	[76.0-96.0 fl]	Final
26-Nov-2004 09:00	MCH	31.1	[27.0-32.0 pg]	Final
26-Nov-2004 09:00	MCHC	33.1	[32.0-36.0 g/dl]	Final
26-Nov-2004 09:00	RBC Distribution Width	12.4	[10.9-15.7 %]	Final
26-Nov-2004 09:00	Mean Platelet Volume	7.1	[6.3-10.1 fl]	Final
26-Nov-2004 09:00	Neutrophil	51.9	[40.0-75.0 %]	Final
26-Nov-2004 09:00	Lymphocyte	36.5	[15.0-41.0 %]	Final
26-Nov-2004 09:00	Monocyte	4.9	[2.0-10.0 %]	Final
26-Nov-2004 09:00	Eosinophil	4.4	[0.0-6.0 %]	Final
26-Nov-2004 09:00	Basophil	0.0	[0.0-1.0 %]	Final
26-Nov-2004 09:00	...Differential Count*			Final

## About iSOFT

iSOFT, part of the IBA Health Group, is one of the world's largest providers of healthcare IT solutions. We design, build and deliver industry-leading software systems that serve the entire health sector.

Our capacity to embrace change and keep abreast of emerging new directions in healthcare allows our customers to explore the exciting potential of new technologies while securing their existing investments.

Today, over 13,000 provider organisations in 35 countries across five continents use iSOFT solutions to manage patient information and drive improvements in core processes. Our solutions are a catalyst for change, increasing efficiencies and providing direct benefits to all stakeholders across the whole spectrum of care.

Our business is driven by the collective talent, experience and commitment of over 3,700 specialists around the globe.

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- Access to results displayed in cumulative tabular and graphical views. The graphical data can be exported to Excel.

The results filter allows views to be defined in natural ways, including by department, e.g. Haematology or Histopathology; by system, e.g. renal function, bone profile; in cumulative tabular and graphical format, and by abnormal results.

