IntelliVue Clinical Information Portfolio

Clarity and knowledge at the point of care
Information overload: that’s
when clarity matters

Your hospital runs on data, from demographics to discharge notes and from lab results to radiology images. All this data comes from scores of sources and in a multiplicity of formats, and in clinical situations where every second counts, that can mean valuable information—information that could speed decision making and improve care—gets lost in the shuffle.

IntelliVue Clinical Information Portfolio centralizes patient data so clinicians have access, anywhere, to the information they need to make crucial care decisions. Vital signs, bedside device data, labs, pathology reports, medication orders, planned interventions, and more are included in the chart, helping to eliminate transcription errors and time lost recording and re-recording data by hand. The interface has been designed by clinicians to ease the technology adoption process, improve patient safety, and increase efficiency.

Real-time clinical decision support
Clinical decision support tools continually check the accumulated data in patient charts for significant confluences of data. For example, if a patient begins to show warning signs of sepsis, ICIP generates a clinical advisory for sepsis and suggests further steps. Clinical advisories can alert caregivers to changing or precarious patient conditions, new information, and documented interventions.

Order management from start to finish
ICIP systematizes clinician orders—for medications, infusions, interventions, exams, therapies, and more. Nurses can see updates to a drip concentration or medication frequency on the flowsheet as soon as the order is entered. Reminders and worklists help caregivers administer orders on schedule. The solution works with pharmacy information systems, automating medication orders and reporting back to the clinician when a medication has been given. It is also designed to interface with CPOE systems.

Easy-to-use data analysis and reporting
Hospital administrators and unit managers can use the application’s complete archive to analyze and report on any charted data. Unit performance analyses and reports for regulators and committees are just mouse-clicks away with intuitive database tools.
Intelligent, Intuitive Charting

IntelliVue Clinical Information Portfolio’s easy-to-learn user interface is based on a “document model.” That is to say it borrows the familiar structure of a paper chart by organizing sections into tabs. You can edit values and comments directly in the chart, and file supplementary documents as you would in a folder. Where the same data appears in several places, you need only enter the information once to populate those fields elsewhere in the chart.

The benefits of centralized information

ICIP improves communication and coordination among the entire care team by centralizing information. Each specialty’s customized flowsheets, forms, and reports reside in the application, and all are linked together so they receive the same information at the same time. Clinicians can gain access virtually anywhere: at the bedside or central station, on wireless devices, in the office, or at home. To protect patient privacy, the solution is designed with multiple levels of access control and a complete audit trail.

Flowsheets can be configured for any patient type and can include vital signs, bedside device data, lab results, I&O, calculations, observations, and procedures. Data cells are automatically linked to all notes and forms so you never have to enter the same data more than once.

The Patient Summary pulls all of a patient’s key information together, including medications, orders, vital signs, lab results, problems, and clinical advisories.

ICIP provides broad order management functionality that includes medications order entry, worklists, and graphic overview. The hospital formulary can also be uploaded.
Clinical advisories for real-time clinical decision support

A clinical advisory might be generated by evidence of an infection, for example, or by the absence of precautions like elevating the head of a ventilated patient’s bed. Clinical advisories can be used to increase patient safety, reduce medical errors, and increase compliance with evidence-based care guidelines.

Clinical advisories apply detailed rules to the full range of clinical data, including lab results, medications, vital signs, calculations, and recorded observations. For example, sepsis is one of the most deadly complications in ICU patients. Clinical Information Portfolio triggers a clinical advisory when a patient appears to be at risk for developing sepsis—based on the patient’s history, monitoring data, and evidence of infection—so that you can intervene promptly. The solution then provides orders functionality and reminders to make sure the appropriate measures are taken.

Clinical Information Portfolio includes a library of clinical advisories that you can customize and add to for your facility.

Enterprise-wide order management

Clinical Information Portfolio includes a comprehensive system for orders that can be used throughout the hospital. New clinician orders can be entered through the Prescription Pad, which handles all types of orders, including medications, labs, and interventions. When a new medication, for example, is entered into the system, the application transmits it via HL7 to the pharmacy information system and reports back when the order has been filled. Medication details appear automatically in several places in the patient chart, including the Medications Overview, the flowsheet, and the Administration Record. When the medication has been given, the whole chart is updated. Medication details can also be entered or changed directly in the flowsheet, saving time and streamlining workflow.

Since orders come from numerous sources, Clinical Information Portfolio provides different authorization roles and ordering modes. A full audit trail keeps track of an order’s history. Orders made through existing CPOE systems are integrated seamlessly.

Clinical advisories draw on the full range of patient data.

Clinical advisories appear in a message bar at the bottom of the screen.

All advisories require acknowledgment, and responses can be tracked.
Regulatory reporting requirements are increasing all the time, and with them, the frustration for clinical staff of continually gathering and transcribing data from multiple sources — electronic and paper-based. The work is hard and the stakes are high as hospitals’ results are increasingly posted to web sites and used for comparisons. Accuracy and completeness in reporting are more important than ever.

Clinical Information Portfolio’s reporting tools break new ground in flexibility, ease of use, and comprehensiveness. A vast built-in library means you can generate most of the reports you need on a regular basis with a few clicks of a mouse. An intuitive graphic user interface allows you to analyze your data in multiple dimensions simply by dragging and dropping data elements.
Comprehensive data archive
Clinical Information Portfolio’s archive contains all the information recorded in patient charts, and its database tools put that information at your disposal. Tables, charts, graphs, and reports can be generated for any type of data charted. This archive allows clinicians to refer back to a patient’s past visits, unit managers to benchmark performance, and researchers to draw on a rich collection of data.

For example, up-to-the-minute patient census data or line management statistics can be reviewed on demand, saving time spent gathering information from charts by hand. Reports on regulatory compliance or pay-for-performance measures can be scheduled regularly or generated as needed.

Reporting and research flexibility
More than 50 ready-to-use database queries and reports on issues central to hospital efficiency, patient safety, and regulatory compliance — including sepsis, ventilator-associated pneumonia, and other evidence-based care guidelines — are included. These reports are specifically designed to simplify the process of reporting to regulatory bodies like the Joint Commission. You can also define additional queries and reports to meet the needs of your facility. An intuitive, drag-and-drop interface brings you tables and graphs in moments so that you can analyze performance or look for trends rapidly.

Simplicity
We designed the reporting interface for the clinical user with no special expertise in relational databases. We provide simple wizards for the built-in reports, and anyone who is comfortable with a spreadsheet can build queries.
A strong IT foundation

IntelliVue Clinical Information Portfolio’s state-of-the-art Microsoft .NET platform is the foundation for interdepartmental integration and advanced clinical decision support into the foreseeable future.

### Key technologies

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<th>Windows® Server 2003</th>
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**With IntelliVue Clinical Information Portfolio, you get:**

- Interfaces with all major HIS vendors to integrate your complete patient record
- Industry-leading data acquisition from patient monitors and dozens of other bedside devices to reduce transcription errors and workload
- HL7 data exchange with your other hospital systems (e.g., HIS, LIS, pharmacy)
- Flexible networking frameworks and remote access (including wireless) to keep your clinical staff informed, wherever they are
- Open database with advanced data analysis and reporting tools built in for more efficient regulatory compliance and in-depth research
- Active Directory support so that you can manage security from your central HR records

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