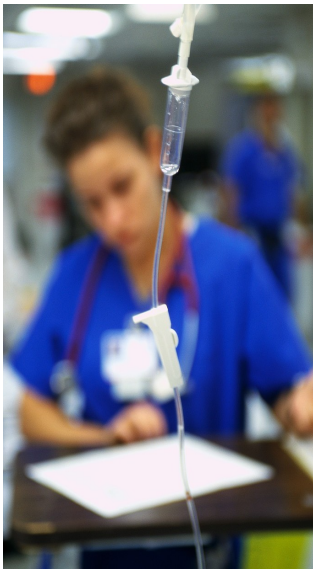




S&P Consultants, Inc. provides expert consulting services to the clinical healthcare information industry, with a concentration on Cerner® applications. With an average of 13 years of clinical and technical experience, our consultants deliver a unique senior level perspective to contribute to the success of each project.

Utilizing PathNet® and PharmNet® Rules to Improve Patient Safety



In today's environment with increased use of electronic patient data and increasing federally mandated medical standard requirements many organizations see the need to expand on the ADE (Adverse Drug Event) packages offered by their clinical systems vendors.

Expanding on ADE packages rules and alerts impacts the culture of organizations and the overall flow of patient care. Balancing the impact of patient care and expanding alerts, without disrupting the flow of patient care while implementing these changes is a delicate task.

There are direct clinical care and patient safety benefits in utilizing lab information and results when ordering/dispensing medications to patients. Examples of critical alerts include;

- *Creatinine and CrCl levels*
- *Potassium levels*
- *Allergies*
- *Age, height and weight*

Organizational Benefits

- *Improve quality care*
- *Prevent medical errors*
- *Reduce costs*
- *Increase efficiencies*
- *Compliance with current and future federal mandates*

(Please turn this page to see more detail on rules)

Utilizing Cerner Millennium® Data to Improve Patient Safety

Below is a small high-level sample of rules developed and implemented by S&P. We invite you to contact us with your questions or if you would like more information.

Adverse Drug Effect- Alert pops up in PharmNet Medication Manager- when existing results for creatinine clearance or serum creatinine indicative of impaired renal function are found and your patient has active orders for nephrotoxic/renally-excreted drugs, a message is sent recommending evaluation of drug dosages. Also appropriate for pediatric patients.

Prevent Overdose/Underdose of a drug based on lab results- Alert based on Lab values pops up in PharmNet Medication Manager. Alerts the clinician to important lab results that may indicate development of an Adverse Drug Effect (ADE) in your patient receiving hepatotoxic drugs. A message/template can be set up to list Hepatic lab results and templates can be built according patients sex and age.

Potential toxicity alert- When a high serum potassium is resulted and an order for a potentially-exacerbating (Potassium-containing) drug exists, this alert sends a message to your printer. Based on patient age and lab potassium values

Pharmacy Order Height/Weight/Allergy needed alert- If your patient does not have height, weight or allergy information on file a Power Form is attached to the alert for the user to immediately document the missing information. This alert pops up in PharmNet Medication Manager and/or PowerChart and recommends this information be added before allowing the order to exist.

Pregnant/Lactating Patients- Power Form documentation is used to alert PharmNet Medication Manager and/or PowerChart when a medication is ordered and your patient is a female between the ages of 10 and 60. The medication order is compared to a list of drugs which could potentially result in harm to patients who are pregnant or breastfeeding. Alerts can fire based on lab Results and Power Form Pregnancy and Lactation assessment statuses

Renal function Alerts- Alert pops up in PharmNet Medication Manager when ordering renally excreted or nephrotoxic medications for a patient with a recent creatinine result that indicates impaired renal function, a dosage adjustment is suggested. Dose requirements and Frequency based on CRCL values are displayed.

Warfarin Alert- Alert health care providers when INR (< 5) and Strength dose of Warfarin is > 5 mg alert pops up in PharmNet Medication Manager Warning can display lab results for INR and alerts for Warfarin doses. For Adult patients.

S&P provides you with a full audit of your current rules and alerts, makes recommendations to modify, add or delete alerts, and assists with full testing and knowledge transfer– contact us for more information



Managing Healthcare Information for Today's Needs

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