

CPRS Lab Display Project v1.0

The CPRS Lab Display Project is a collaborative effort based on work initially performed at the Jesse Brown VAMC (Chicago) and the Salt Lake City VAMC. Its primary function is to display relevant laboratory results to a provider ordering mediations while viewing the medication order dialog within CPRS GUI.

Distribution of the program is via a KIDS build containing the following components:

- Modified version of Class I routine ORWDPS2, to call out to standalone project routines
- Routine AJEY0110, the primary display module which adds the information into the medication order dialog screen as an ORDERABLE ITEM message.
- Routine AJEY0115, an extrinsic function based on the CPRS Creatinine Clearance order check, used when the associated laboratory test is creatinine.
- Routine AJEY0177, an option to set the parameter that enables/disables the project
 - The OPTION and PARAMETER DEFINITION are included as well
- Routine AJEY0210, a TIU object version of the same display, which works for outpatient prescription quick orders. (See known issues)

To establish the program within a VistA implementation requires the following steps:

- Installation of the KIDS build
- Activation of the project via option AJEY CPRS LAB DISPLAY PARAM
- Association of lab results with medications using the existing Class I Drug Enter/Edit option and its LAB MONITOR feature

Commentary and known issues:

- A Kernel Parameter to allow SYSTEM and USER level control of the lab display program. It can be turned on or off at either of those levels.
- The setup of drug-lab associations is done at the pharmacy file #50 DRUG level, but this allows for a potentially conflicting association between a series of related drugs and their strengths to different lab tests. The program accounts for this situation by utilizing the first drug-lab association found within a given pharmacy orderable item.
- The display appears when a medication order is placed at the orderable item level. Selection of a dispense drug, and/or use of a quick order will replace the display with other information. As such, the TIU object version is bundled with the package, but to date only functions correctly for outpatient pharmacy quick orders.

Shown here is a screen capture of the display for a selected order within the context of CPRS GUI.

Inpatient Medications

METFORMIN TAB, ORAL Change

Display Restrictions/Guidelines

Dosage	Complex	Route	Schedule (Day-Of-Week)
		PO/ORAL	<input type="checkbox"/> PRN
500MG	0.0269	PO/ORAL	1600
850MG	0.0385		1700
1000MG	0.0538		2XWEEKLY
1700MG	0.077		3XWEEKLY
			3XWK(OUTPATIENT)
			5XDAY
			6XD
			AC
			AC&BEDTIME
			AM
			AS DIRECTED
			BEDTIME
			BID
			BID (Q12H)
			BID&BEDTIME

Comments:

☐ Give additional dose now

Priority: ROUTINE

i LAST CREATININE: 0.764 mg/dL (Jan 16, 2014@04:00)
REFERENCE RANGE: .67 - 1.17 mg/dL
Calculated Creatinine Clearance: 68.3 mL/min

METFORMIN TAB, ORAL
PO

Accept Order Quit