

Updated EMAR provides access to the patient's pharmacy profile including order detail and medication administration documentation. Although medications may be administered via Updated EMAR, Updated Medication Verification takes patient safety a step further by providing a final check at administration through patient and medication barcode scanning.

The screenshot displays the Updated EMAR interface for patient ANDREWS IVANA (ACTIVE). The patient's account number is CPSI0630, DOB is 06/29/1986, and she is female. Her current weight is 270 lbs 6.1 oz (122.64 kg) and her admit weight is the same. Her height is 67.00 inches, BMI is 42.35 kg/m2, and BSA is 2.41 m2. Her primary diagnosis is SHORTNESS OF BREATH, and her allergies include PENICILLINS (CLASS), DUST MITE, and MORPHINE.

The interface shows a navigation menu on the left with options like Alerts, Lab Results, Problem List, Vitals, Allergies, Medication Reconciliation, Prescription Entry, Patient Immunization History, Patient Education, PACS Images, Order Chronology, Transcriptions, Clinical History, Reports and Attachments, Order Entry, Verify Orders, MAR (selected), and Documentation.

The main display area shows the 'MAR' (Medication Administration Record) for the patient. It includes a task bar with options like 'Detail View', 'Change Date/Time', 'Medication Report', 'Color Legend', 'Clinical Monitoring', and 'Refresh'. Below the task bar, there is a section for 'on Record Current Date and Time' with a checkbox for 'Include Discontinued Medications' and a date range selector set to 5/17/2020 to 5/21/2020.

The MAR grid shows medication administration times for the dates 05/17/2020, 05/18/2020, 05/19/2020, 05/20/2020, and 05/21/2020. The grid is color-coded: red for 'DUE' medications, cyan for 'PRN' medications, and white for 'SCHEDULED' medications. The 'DUE' medications listed are 'SUBCUTANEOUS' and 'IV'. The 'PRN' medications listed are 'IV (UONEB) 3MG/3ML' and 'IV (OLET)'. The 'SCHEDULED' medication listed is 'WATCH FOR OTHER SOURCES OF APAP, FOR SED TEMP IN ALL MEDSELECTS'.

- Select MAR from the application menu.
- MAR Display
 - The EMAR can be displayed multiple ways. You can choose Date View from the task bar to see one date per column with multiple administration times per cell or Detail View which will show a date and admin time per column.
 - Due – shows all currently due medications including overdue medications.
 - PRN – shows all PRN meds on the MAR.
 - Scheduled – shows all scheduled meds on the MAR.
 - IV – shows all IV medications.
 - Diabetic Record – shows all diabetic medications.
 - Users can choose to Include Discontinued Medications on the MAR Display by selecting the corresponding check box.
 - Users can set a date range on the MAR via the calendar options.
- Color Legend
 - A color legend is available to let you know what each color means on the MAR. These colors can be edited by the facility.
- Medication Report
 - A report is available that will show all medication administrations for that patient.
 - Users can choose to show or not show stricken/amended administrations.

- Users can choose to include or not include undocumented medication orders.
- Medication Administration
 - To administer medications on the MAR, first scan the patient's armband.
 - Patient Wristband Scanned with a green checkmark will appear toward the top of the MAR.
 - Next, scan the medication barcode that is to be administered.
 - The Medication Administration screen will automatically pop up.
 - The Action will default to Give.
 - Users may also Omit or Discontinue a medication from the Med Admin screen.
 - Double check that the Medication, Dose, Route, Frequency and Scheduled Time are correct.
 - Select Update Pending to mark the medication administered on the MAR
 - Scanning marks the admin in real time with the user's initials.
 - To reassess a PRN medication:
 - Select a PRN med admin on the MAR.
 - Select Assessment from the taskbar.
 - Select the correct date/time that the assessment was performed.
 - Select the correct reassessment option from the dropdown.
 - Select Update.
 - To Stop, Start, and Complete an Infusion:
 - Click on the blue Order Detail icon next to the infusion order.
 - Click on the desired administration to stop.
 - Select Stop Infusion from the taskbar.
 - Enter a comment and make sure the date/time is correct.
 - Select Update.
 - To Restart – select admin again.
 - Select Start Infusion from the taskbar.
 - Enter in a comment and make sure the date/time is correct.
 - Select Update.
 - To Complete – select admin.
 - Enter in a comment and make sure the date/time is correct.
 - Select Update.
- Completing an Infusion logs the end time on the Infusion Turn Around Time Report.
 - To Titrate an Infusion:
 - Click on the blue Order Detail icon next to the infusion order.
 - Click on the last administration.
 - Select Titrate from the taskbar.
 - Enter the updated flowrate in the Titrate field
 - Select the appropriate unit from the dropdown.
 - Select the date the titrate order was received from the Calendar options.
 - Enter the time the titrate order was received in the Time field.
 - Enter any applicable comments in the comment field.
 - Select Update from the taskbar.

NOTE: The new flowrate will not be visible on the face of the MAR. However, the user can view it on the Medication Report or by selecting the blue Order Detail icon next to the infusion order.

For more information on this topic, please see CPSIQ for an in-depth presentation.